
Inhaltsverzeichnis CD-ROM

Literaturverzeichnis

Literaturverzeichnis

Einleitung	9
1 Durch Viren hervorgerufene Zoonosen	9
1.1 Einführung – 9	
1.1.4 Übertragungsketten bei Arboviren – 10	
1.2 Alphaviren – 10	
1.2.1 Ostamerikanische Pferdeenzephalitis – 10	
1.2.2 Westamerikanische Pferdeenzephalitis – 11	
1.2.3 Venezolanische Pferdeenzephalitis – 12	
1.2.4 Semliki-Forest-Virusinfektion – 12	
1.2.5 Sindbis-Fieber – 12	
1.2.6 Epidemische Polyarthrit. Ross-River und Barmah-Forest-Virus – 13	
1.2.7 Chikungunya-Fieber – 14	
1.2.8 O'nyong-nyong-Fieber – 15	
1.2.9 Mayaro-Fieber – 16	
1.3 Flaviviren – 16	
1.3.1 Frühsommer-Meningoenzephalitis (FSME und RSSE) – 18	
1.3.2 Louping Ill – 19	
1.3.3 Powassan-Virus-Enzephalitis – 19	
1.3.4 Kyasanur-Forest-Disease – 19	
1.3.5 Omsker hämorrhagisches Fieber – 20	
1.3.6 Japanische Enzephalitis – 20	
1.3.7 Murray-Valley-Enzephalitis und Kunjin-Fieber – 21	
1.3.8 St. Louis-Enzephalitis – 22	
1.3.9 Rocio-Enzephalitis – 24	
1.3.10 West-Nil-Fieber – 24	
1.3.11 Usutu-Virus – 26	
1.3.12 Wesselsbron Disease – 26	
1.3.13 Gelbfieber – 26	
1.3.14 Dengue-Fieber – 27	
1.4 Bunyaviren – 30	
1.4.1 Einführung – 30	
1.4.2 La Crosse-Enzephalitis (Kalifornische Enzephalitis) – 30	
1.4.3 Oropouche-Fieber – 31	
1.4.4 Krim-Kongo-Hämorrhagisches Fieber – 31	
1.4.5 Rift-Valley-Fieber – 32	
1.4.6 Sandmückenfieber – 33	

1.4.7	Infektionen durch Hantaviren: HFRS und HPS	– 33
1.5	Retroviridae: Colti-, Orbi- und Rotaviren	– 35
1.5.2.1	Colorado-Zeckenstichfieber und 1.5.3. Kemerovovirus	– 35
1.5.4	Rotaviren	– 35
1.6	Arenaviren	– 36
1.6.1	Lymphozytäre Choriomeningitis (LCM)	– 36
1.6.2	Lassa-Fieber	– 37
1.6.3	Neuwelt Arenaviren (Tacaribe-Komplex)	– 38
	Guanarito Virus und Whitewater Arroyo Virus	– 38
1.7	Filoviren	– 39
1.7.1	Marburg-Virus-Krankheit	– 39
1.7.2	Ebola-Virus-Krankheit	– 39
1.8	Rhabdoviren	– 40
1.8.1	Tollwut	– 40
1.8.2	Vesikuläre Stomatitis	– 41
1.9	Paramyxoviren	– 42
1.9.1	Newcastle-Krankheit	– 42
1.9.2.1	Hendra-Viruskrankheit	– 42
1.9.2.2	Nipah-Virus-Enzephalitis	– 43
1.10	Orthomyxoviren (Schweineinfluenza H1N1 und Geflügelinfluenza H5N1, H7N7, H9N2)	– 44
1.11	Picornaviren	– 45
1.11.1	Bläschenkrankheit des Schweins	– 45
1.11.2	Maul- und Klauenseuche	– 45
1.11.3	Enzephalomyokarditis	– 46
1.12	Hepatitis E	– 46
1.13	Coronaviren und 1.13.1 – SARS	– 46
1.14.1	Primaten T-Zell-lymphotrope Viren PTLV I und PTLV II	– 47
1.14.2	Lentiviren. HIV I und HIV II	– 48
1.14.3	Endogene Retroviren	– 48
1.15.1	Herpes B-Virus, Affenherpesvirus-Infektion	– 49
1.16.1	Orthopoxvirus	– 49
1.16.1.1	Affenpockenvirus-Infektion	– 49
1.16.1.2	Vakziniavirus-Infektion	– 50
1.16.1.3 bis 1.16.1.6	Büffelpocken, Kuhpocken, Kamelpocken, Elefantenpocken	– 50
1.16.2	Parapocken	– 50
1.17	Mit Prionen assoziierte Zoonosen und 1.17.1 BSE	– 51
2	Durch Bakterien hervorgerufene Zoonosen	51
2.2	Bartonellosen	– 52
2.3	Borreliosen	– 52
2.3.1	Lyme Borreliose	– 52
2.3.2	Rückfallfieber	– 53
2.4	Brucellosen	– 54
2.5	Campylobacteriosen	– 54
2.6	Chlamydiosen	– 55

- 2.7 Ehrlichiosen/Anaplasmose – 57
- 2.8 Enterohämorrhagische Escherichia coli (EHEC)-Infektionen – 57
- 2.9 Leptospirosen – 58
- 2.10 Listeriose – 59
- 2.11 Malleus (Rotz) – 60
- 2.12 Melioidose (Pseudorotz) – 61
- 2.13 Milzbrand (Anthrax) – 61
- 2.14 Mykobakteriosen – 62
 - 2.14.1 Infektionen mit Mycobacterium (M.) tuberculosis-Komplex – 62
 - 2.14.2 Infektionen mit Mycobacterium marinum – 63
 - 2.14.3 Mykobakterien-Infektionen, die als Zoonosen diskutiert werden – 64
 - 2.14.3.1 Infektionen mit Mycobacterium avium – 64
 - 2.14.3.2 Infektionen mit Mycobacterium avium subsp. hominissuis – 64
 - 2.14.3.3 Infektionen mit Mycobacterium avium subsp. paratuberculosis – 64
 - 2.14.3.4 Infektionen mit Mycobacterium genavense – 65
- 2.15 Pasteurellosen – 65
- 2.16 Pest – 66
- 2.17 Q-Fieber – 67
- 2.18 Rattenbisskrankheit – 68
- 2.19 Rickettsiosen – 69
- 2.20 Rotlauf (Erysipeloid) – 70
- 2.21 Salmonellosen – 71
- 2.22 Staphylokokken-Infektionen – 72
- 2.23 Streptokokken-Infektionen – 73
 - 2.23.2 Streptococcus equi-Infektionen (Streptokokken der serologischen Gruppe C) – 73
 - 2.23.3 Streptococcus suis-Infektionen – 74
 - 2.23.4 Streptococcus pyogenes-Infektionen – 74
 - 2.23.5 Streptococcus agalactiae-Infektionen – 75
 - 2.23.6 Infektionen mit anderen Streptokokken-Arten – 75
- 2.24 Tularämie – 75
- 2.25 Vibriosen – 76
 - 2.25.1 Cholera – 76
 - 2.25.2 Erkrankungen durch andere Vibrio spp. – 77
- 2.26 (Enterale) Yersiniosen (Y. enterocolitica, Y. pseudotuberculosis) – 78
- 2.27 Seltener diagnostizierte und potenzielle bakterielle Zoonosen-Erreger – 79
 - 2.27.1 Actinobacillus-Infektionen – 79
 - 2.27.2 Arcanobacterium pyogenes-Infektion – 79
 - 2.27.3 Arcobacter-Infektionen – 79
 - 2.27.4 Bordetella bronchiseptica-Infektionen – 80
 - 2.27.5 Capnocytophaga-Infektionen – 80
 - 2.27.6 Corynebacterium pseudotuberculosis-Infektionen – 81
 - 2.27.7 Corynebacterium ulcerans-Infektionen – 81
 - 2.27.8 Dermatophilus congolensis-Infektionen – 82
 - 2.27.9 Helicobacter-Infektionen – 82

2.27.10 Rhodococcus equi-Infektionen – 83

3	Durch Pilze hervorgerufene Zoonosen	83
3.2	Mikrosporie – 84	
3.3	Trichophytie – 84	
3.4	Sporotrichose – 84	
3.5	Pneumozystose – 85	
4	Durch Parasiten hervorgerufene Zoonosen	85
4.1	Einführung – 86	
4.2	Durch Protozoen verursachte Erkrankungen – 87	
4.2.1	Amöbose – 87	
4.2.2	Babesiose – 88	
4.2.3	Balantidiose – 8	
4.2.4	Chagas-Krankheit (Südamerikanische Trypanosomose) – 89	
4.2.5	Giardiose – 90	
4.2.6	Kryptosporidiose – 91	
4.2.7	Leishmaniosen – 92	
4.2.7.1	Viscerale Leishmaniose (Kala-Azar) – 92	
4.2.7.2	Kutane Leishmaniosen – 93	
4.2.7.3	Amerikanische Haut- und Schleimhautleishmaniosen – 93	
4.2.8	Malaria – 94	
4.2.9	Microsporidiose – 95	
4.2.10	Sarkosporidiose – 96	
4.2.11	Schlafkrankheit – 96	
4.2.12	Toxoplasmose – 96	
4.2.13	Andere Infektionen mit Protozoen – 97	
4.3	Durch Trematoden hervorgerufene Erkrankungen – 98	
4.3.1	Clonorchose – 98	
4.3.2	Darmegelerkrankung – 98	
4.3.3	Dikrozytose – 99	
4.3.4	Fasziolose – 99	
4.3.5	Fasziolopsose – 100	
4.3.6	Opisthorchose – 100	
4.3.7	Paragonimose – 101	
4.3.9	Schistosomose – 101	
4.3.10	Zerkariendermatitis – 102	
4.3.11	Andere Trematodeninfektionen – 103	
4.4	Durch Zestoden verursachte Erkrankungen – 103	
4.4.1	Diphyllobothriose – 103	
4.4.2	Dipylidiose – 103	
4.4.3	Echinokokkose – 104	
4.4.3.1	Alveoläre Echinokokkose – 104	
4.4.3.2	Zystische Echinokokkose – 105	
4.4.4	Hymenolepose – 105	
4.4.5	Sparganose – 106	
4.4.6	Taeniose saginata (einschließlich Taenia asiatica) – 106	

4.4.7	Taeniose solium und Zystizerkose – 107	
4.4.8	Zoenurose – 108	
4.4.9	Andere Zestodeninfektionen – 108	
4.5	Durch Nematoden verursachte Erkrankungen – 109	
4.5.1.1	Zerebrale Angiostrongylose – 109	
4.5.1.2	Intestinale Angiostrongylose – 109	
4.5.2	Anisakiose – 110	
4.5.3.1	Darmcapillariose – 111	
4.5.3.2	Lebercapillariose – 111	
4.5.3.3	Lungencapillariose – 111	
4.5.4	Diocetophymose – 111	
4.5.5	Dracunculose – 111	
4.5.6	Eosinophile Enteritis – 112	
4.5.7	Filariose – 112	
4.5.7.1	Brugia-Filariose – 112	
4.5.7.2	Dirofilariose – 113	
4.5.8	Gnathostomose – 113	
4.5.9	Gongylonemose – 114	
4.5.10	Lagochilascarose – 114	
4.5.11	Larva migrans cutanea – 114	
4.5.12	Larva migrans visceralis – 115	
4.5.13	Oesophagostomose – 116	
4.5.14	Strongyloidose – 116	
4.5.15	Syngamose – 117	
4.5.16	Thelaziose – 117	
4.5.17	Trichinellose – 117	
4.5.18	Trichostrongylose – 118	
4.5.19	Andere Infektionen mit Nematoden – 119	
4.6	Durch Acanthocephalen hervorgerufene Erkrankungen – 119	
4.7	Durch Arthropoden verursachte Erkrankungen – 119	
4.7.1	Erkrankungen durch Zecken – 119	
4.7.2	Erkrankungen durch Milben – 120	
4.7.3	Erkrankungen durch Diptera – 121	
4.7.3.1	Stiche durch Mücken und Fliegen – 121	
4.7.3.2	Myiasis – 122	
4.7.4	Erkrankungen durch Flöhe – 123	
4.7.4.1	Flohstiche – 123	
4.7.4.2	Tungiose – 123	
4.7.5	Erkrankungen durch Wanzen – 123	
4.8	Durch Pentastomiden verursachte Erkrankungen – 124	
A.1	Infektionen durch Tierbisse	125
A.2	Infektionen und Intoxikationen durch tierische Nahrungsmittel („Food-borne diseases“)	126
A.3	Iatrogene Übertragung zoonotischer Erreger	127

Literaturverzeichnis

Einleitung

- Anonym, European Union summary report on trends and sources of zoonoses and zoonotic agents and foodborn outbreaks 2009. *EFSA Journal* 9: 2090 [378 pp], 2011.
- Atlas R et al., One-health attaining optimal health for people, animals, and the environment. *Microbe* 5, 383–389, 2010.
- Fried B, Graczyk TK, Tamang L, Food-borne intestinal trematodiasis in humans. *Parasitol. Res.* 93, 159–170, 2004.
- Klietmann, WF, Ruoff KL, Bioterrorism: Implications for the clinical microbiologist. *Clin. Microbiol. Rev.* 14, 364–381, 2001.
- Meslin FX, Global aspects of emerging and potential zoonoses: a WHO perspective. *Emerg. Infekt. Dis.* 3, 223–228, 1997.
- Polley L, Thompson RCA, Parasite zoonoses and climate change: molecular tools for tracking shifting boundaries. *Trends Parasitol.* 25, 285–291, 2009.
- Rotz LD et al., Public health assessment of potential biological terrorism agents. *Emerg. Infect. Dis.* 8, 225–230, 2002.
- Woolhouse ME, Gowtage-Sequeria S, Host range and emerging and reemerging pathogens. *Emerg. Infect. Dis.* 11, 1842–1847, 2005.

1 Durch Viren hervorgerufene Zoonosen

1.1 Einführung

- Bächlein C, Grummer B, Hepatitis E a new zoonotic disease in Germany? *Berl Munch Tierarztl Wochenschr.* 123, 198–204, 2010.
- Bányai K, Martella V, Molnár PJ, Genetic heterogeneity in human G6P [14] rotavirus strains detected in Hungary suggests independent zoonotic origin. *J Infect.* 59, 213–215, 2009.

- Beran GW, Steele JH (eds.), *CRC Handbook of Zoonoses, Section B Viral*, 2nd ed. CRC Press, Boca Raton, London, Tokyo, 1994.
- Carbone KM et al., Pletnikov: Borna disease: virus-induced neurobehavioral disease pathogenesis. *Curr. Opin. Microbiol.* 4, 467–475, 2001.
- Cong ME et al., Related TT viruses in chimpanzees. *Virology.* 274, 343–355, 2000.
- Cooksley WG, What did we learn from the Shanghai hepatitis A epidemic? *J. Viral. Hepat. Suppl.* 1, 1–3, Review, 2000.
- Holmes EC, On the origin and evolution of the human immunodeficiency virus (HIV). *Biol. Rev. Camb. Philos. Soc.* 76, 239–254, 2001.
- Lederberg J (1997), Infectious disease as an evolutionary paradigm. *Emerg. Infect. Dis.* 3, 417–423.
- Lederberg J (1988), Medical science, infectious disease, and the unity of mankind. *JAMA* 260, 684–685.
- Martella V, Bányai K, Matthijssens J, Zoonotic aspects of rotaviruses. *Vet Microbiol.* 140, 246–255, 2010.
- Meertens L et al., Molecular and phylogenetic analysis of 16 novel T-cell leukemia virus type 1 from Africa: close relationship of STLV-a from *Allenopithecus nigroviridis* to HTLV-1 subtype B strains. *Virology* 278, 275–285, 2001.
- Morse SS (ed.), *Emerging Viruses*. Oxford University Press, New York, 1993.
- Okamoto H et al., Genomic and evolutionary characterization of TT virus (TTV) in tupaia and comparison with species-specific TTVs in humans and non-human primates. *J. Gen. Virol.* 82, 2041–50, 2001. K.
- Robertson BH, Viral hepatitis and primates: historical and molecular analysis of human and nonhuman primate hepatitis A, B, and the GB-related viruses. *J. Viral. Hepat.* 8, 233–242, 2001.
- Staehele P, Lieb K, Bornavirus and psychiatric disorders – fact or fiction? *J. Med. Microbiol.* 50, 579–81, Review, 2001.

Suleman MA et al., An outbreak of poliomyelitis caused by poliovirus type I in captive black and white colobus monkeys (*Colobus abyssinicus kikuyuensis*) in Kenya. *Trans. R. Soc. Trop. Med. Hyg.* 78, 665–669, 1984.

1.1.4 Übertragungsketten bei Arboviren

Beatty BJ et al., LaCrosse encephalitis virus and mosquitoes: a remarkable relationship. *ASM News* 66, 349–357, 2000.

Dobie DK et al., Analysis of LaCrosse virus S mRNA 5'termini in infected mosquito cells and *Aedes triseriatus* mosquitoes. *J. Virol.* 71, 4395–4399, 1997.

Mackenzie JS, Emerging viral diseases: an Australian perspective. *Emerging Infectious Diseases* 5, 1–8, 1999.

Monath TP (ed.), *The arboviruses: epidemiology and ecology*, Vols 1–4, CRC-Press, Boca Raton 1988.

Nash, D et al., The outbreak of West Nile virus infection in the New York City area in 1999. *New Engl. J. Med.* 344, 1807–1814, 2001.

Porterfield JS (ed.), *Exotic viral infections*. Chapman and Hall Medical, London, New York, Tokyo, 1995.

Tsai TF, Chandler LJ, Arboviruses. In: Murray PR, Baron JE, Jorgensen JH, Tenover MC, Tenover FC (eds.), *Manual of Clinical Microbiology*, 9th ed. ASM Press, Washington, 2007.

Yolken RH (ed.), *Manual of Clinical Microbiology*, 9th ed. ASM Press, Washington, 2007.

WHO, Arthropod-borne and rodent-borne viral diseases. World Health Organization: Technical Report Series No 719. Geneva, 1985.

1.2 Alphaviren

Calisher CH, Alphavirus infections (family *Togaviridae*) 1–18. In: Porterfield JS (ed.), *Exotic viral infections*. 1–18, Chapman and Hall Medical, London, New York, Tokyo, 1995.

Gould et al., Understanding the alphaviruses: recent research on important emerging pathogens and progress towards their control. *Antivir. Res.* 87,111–124, 2010.

Griffin DE, Alphaviruses. In: Knipe DM, Howley PM (eds.), *Fields virology*, 917–962, Lippincott, Williams & Wilkins, Philadelphia. 4th ed., 2001.

Johnson AJ et al., Roehrig: Detection of anti-arboviral immunoglobulin G by using a monoclonal antibody-based capture enzyme-linked immunosorbent assay. *J. Clin. Microbiol.* 38, 1827–1831, 2000.

Linssen B et al., Development of reverse transcription-PCR assays specific for detection of equine encephalitis viruses. *J. Clin. Microbiol.* 38, 1527–1535, 2000.

Martin DA et al., Standardization of immunoglobulin M capture enzyme linked immunosorbent assays for routine diagnosis of arboviral infections. *J. Clin. Microbiol.* 38, 1823–1826, 2001.

McClain DJ et al., Immunologic interference from sequential administration of live attenuated alphavirus vaccines. *J. Infect. Dis.* 177, 634–641, 1998.

Paredes A et al., Structural biology of old world and new world alphaviruses. *Arch. Virol.* (Suppl.) 19, 179–185, 2005.

Pfeffer MB et al., Genus-specific detection of alphaviruses by a semi-nested reverse transcription-polymerase chain reaction. *Am. J. Trop. Med. Hyg.* 57, 709–718, 1997.

Pittmann PR et al., Immune interference after sequential vaccine vaccinations. *Vacc.* 27, 4879–4882, 2009.

Quetglas JI et al., Alphavirus vectors for cancer therapy. *Virus Res.* 153, 179–196, 2010.

Rulli, NE et al., The molecular and cellular aspects of arthritis due to alphavirus infections: lesson learned from Ross River virus. *Ann. N.Y. Acad. Sci.* 1102, 96–108, 2007.

Steele KE, Twenhafel NA, Pathology of animal models of alphavirus encephalitis. *Vet. Pathol.* 47, 790–805, 2010.

Tsai TF, Chandler LJ, Arboviruses. In: Murray PR, Baron JE, Jorgensen JH et al. (eds.): *Manual of Clinical Microbiology*, 1553–1569, 8th ed. ASM Press, Washington, 2003.

Zacks MA, Paessler S, Encephalitic alphaviruses. *Vet. Microbiol.* 140, 281–286, 2010.

1.2.1 Ostamerikanische Pferdeenzephalitis

Armstrong PM, Andreadis TG, Eastern equine encephalitis virus in mosquitoes and their role as bridge vectors. *Emerg. Infect. Dis.* 16, 1869–1874, 2010.

Arrigo NC et al., Cotton rats and house sparrows as hosts for North and South American strains of eastern equine encephalitis

- virus. *Emerg. Infect. Dis.* 16, 1373–1380, 2010.
- Bosak PJ, Reed LM, Crans WJ, Habitat preference of host-seeking *Coquillettidia perturbans* (Walker) in relation to birds and eastern equine encephalomyelitis virus in New Jersey. *J. Vector. Ecol.* 26, 103–109, 2001.
- Brault AC et al., Genetic and antigenic diversity among eastern equine encephalitis viruses from North, Central, and South America. *Am. J. Trop. Med. Hyg.* 61, 579–586, 1999.
- Calisher CH, Alphavirus infections (family *Togaviridae*). In: Porterfield JS (ed.), *Exotic viral infections*. 1–18. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Cupp EW et al., Transmission of eastern equine encephalomyelitis virus in central Alabama. *Am. J. Trop. Med. Hyg.* 68, 495–500, 2003.
- Davis LE, Beckham JD, Tyler KL, North American encephalitic arboviruses. *Neurol. Clin.* 26, 727–757, 2008.
- Deresiewicz et al., Clinical and neuroradiographic manifestations of eastern equine encephalitis. *New Engl. J. Med.* 336, 1867–1874, 1997.
- Garen PD, Tsai TF, Powers JF, Human eastern equine encephalitis: immunohistochemistry and ultrastructure. *Mod. Pathol.* 12, 646–652, 1999.
- Harvala H et al., Eastern equine encephalitis virus imported to the UK. *J. Med. Virol.* 81, 305–308, 2009.
- Hull R et al., A duplex real-time reverse transcriptase polymerase chain reaction assay for the detection of St. Louis encephalitis and eastern equine encephalitis viruses. *Diagn. Microbiol. Infect. Dis.* 62, 272–279, 2008.
- Linssen B et al., Development of reverse transcription-PCR assays specific for detection of equine encephalitis viruses. *J. Clin. Microbiol.* 38, 1527–1535, 2000.
- Pittmann PR et al., Immune interference after sequential vaccine vaccinations. *Vacc.* 27, 4879–4882, 2009.
- Sotomayor EA, Josephson SL, Isolation of eastern equine encephalitis virus in A549 and MRC-5 cell cultures. *Clin. Infect. Dis.* 29, 193–195, 1999.
- Wang E et al., Reverse transcription-PCR-enzyme-linked immunosorbent assay for rapid detection and differentiation of alphavirus infections. *J. Clin. Microbiol.* 44, 4000–4008, 2006.
- Wozniak A et al., Arbovirus surveillance in South Carolina, 1996–98. *J. Am. Mosq. Control. Assoc.* 17, 73–78, 2001.
- Young DS, Kramer LD, Maffei JG et al., Molecular epidemiology of eastern equine encephalitis virus, New York. *Emerg. Infect. Dis.* 14, 454–460, 2008.

1.2.2 Westamerikanische Pferdeenzephalitis

- Calisher CH (1995), Alphavirus infections (family *Togaviridae*), 1–18. In: Porterfield JS (ed.): *Exotic viral infections*. Chapman and Hall Medical, London, New York, Tokyo,
- Calisher CH (1994), Medically important arboviruses of the United States and Canada. *Clin. Microbiol. Rev.* 7, 89–116.
- CDC, Rapid assessment of vector-borne diseases during the Midwest flood – United States, 1993. *MMWR Morb. Mortal Wkly. Rep.* 43, 481–483, 1994.
- Das D et al., Evaluation of a Western equine encephalitis recombinant E1 protein for protective immunity and diagnostics. *Antiviral Res.* 64, 85–92, 2004.
- Forrester NL et al., Western equine encephalitis submergence: lack of evidence for a decline in virus virulence. *Virology* 380, 170–172, 2008.
- Linssen B et al., Development of reverse transcription-PCR assays specific for detection of equine encephalitis viruses. *J. Clin. Microbiol.* 38, 1527–1535, 2000.
- Nagata LP et al., Infectivity variation and genetic diversity among strains of Western equine encephalitis virus. *J. Gen. Virol.* 87, 2353–2361, 2006.
- Pittmann PR et al., Immune interference after sequential vaccine vaccinations. *Vacc.* 27, 4879–4882, 2009.
- Reisen WK, Chiles RE (1997), Prevalence of antibodies to western equine encephalomyelitis and St. Louis encephalitis viruses in residents of California exposed to sporadic and consistent enzootic transmission. *Am. J. Trop. Med. Hyg.* 57, 526–529.
- Reisen WK et al. (2000), Patterns of avian seroprevalence to western equine encephalomyelitis and Saint Louis encephalitis viruses in California, USA. *J. Med. Entomol.* 37, 507–527.
- Sellers RF, Maarouf AR, Weather factors in the prediction of western equine encephalitis

epidemics in Manitoba. *Epidemiol. Infect.* 111, 373–390, 1993.

Wang E et al., Reverse transcription-PCR-enzyme-linked immunosorbent assay for rapid detection and differentiation of alphavirus infections. *J. Clin. Microbiol.* 44, 4000–4008, 2006.

1.2.3 Venezolanische Pferdeenzephalitis

Aguilar PV et al., Endemic Venezuelan equine encephalitis in northern Peru. *Emerg. Infect. Dis.* 10, 880–888, 2004.

Brault AC et al., Positively charged amino acid substitutions in the E2 envelope glycoprotein are associated with the emergence of Venezuelan equine encephalitis virus. *Virology* 361, 1718–1730, 2002.

Calisher CH, Alphavirus infections (family *Togaviridae*). In: Porterfield JS (ed.), *Exotic viral infections*. 1–18. Chapman and Hall Medical, London, New York, Tokyo, 1995.

Dai X et al., Microbead electrochemiluminescence immunoassay for detection and identification of Venezuelan equine encephalitis virus. *J. Virol. Meth.* 169, 274–281, 2010.

Estrada-Franco JG et al., Venezuelan equine encephalitis virus, southern Mexico. *Emerg. Infect. Dis.* 10, 2113–2121, 2004.

Gardner CL et al., Eastern and Venezuelan equine encephalitis viruses differ in their ability to infect dendritic cells and macrophages: impact of altered cell tropism on pathogenesis. *J. Virol.* 82, 10634–10646, 2008.

Linszen B et al., Development of reverse transcription-PCR assays specific for detection of equine encephalitis viruses. *J. Clin. Microbiol.* 38, 1527–1535, 2000.

Meissner JD et al., Sequencing of prototype viruses in the Venezuelan equine encephalitis antigenic complex. *Virus Res.* 64, 43–59, 1999.

Moncayo AC et al., Genetic diversity and relationships among Venezuelan equine encephalitis virus field isolates from Colombia and Venezuela. *Am. J. Trop. Med. Hyg.* 65, 738–746, 2001.

Navarro JC et al., Postepizootic persistence of Venezuelan equine encephalitis virus, Venezuela. *Emerg. Infect. Dis.* 11, 1907–1915, 2005.

O'Brien LM et al., Development of a novel monoclonal antibody with reactivity to a

wide range of Venezuelan equine encephalitis virus strain. *Virology* 361, 206, 2009.

Paessler S, Weaver SC, Vaccines for Venezuelan equine encephalitis. *Vaccine* 27 (suppl. 4), D80–D85, 2009.

Quiroz E et al., Venezuelan equine encephalitis in Panama: fatal endemic disease and genetic diversity of etiologic viral strains. *PLoS Negl. Trop. Dis.* 3, e472, 2009.

Rosenbloom M et al., Biological and chemical agents: a brief synopsis. *Am. J. Ther.* 9, 5–14, Review, 2002.

Smith DR et al., Venezuelan equine encephalitis virus transmission and effect on pathogenesis. *Emerg. Infect. Dis.* 12, 1190–1196, 2006.

Yanoviak SP et al., Transmission of a Venezuelan equine encephalitis complex alphavirus by culex (melanoconion) gnathos (dipteran: culicidae) in northeastern Peru. *J. Med. Entomol.* 42, 404–408, 2005.

Vilcarromero S et al., Venezuelan equine encephalitis and upper gastrointestinal bleeding in a child. *Emerg. Infect. Dis.* 15, 323–325, 2009.

1.2.4 Semliki-Forest-Virusinfektion

Calisher CH, Alphavirus infections (family *Togaviridae*). In: Porterfield JS (ed.), *Exotic viral infections*. 1–18, Chapman and Hall Medical, London, New York, Tokyo, 1995.

Fazakerley JK, Semliki forest virus infection of laboratory mice: a model to study the pathogenesis of viral encephalitis. *Arch. Virol.* (suppl), 18, 179–190, 2004.

Lundstrom K, Semliki forest virus vectors for gene therapy. *Expert Opin. Biol. Ther.* 3, 771–775, 2003.

Mathiot CC, Grimmaud G, Garry P, An outbreak of human Semliki Forest virus infection in Central African Republic. *Am. J. Trop. Med. Hyg.* 42, 386–389, 1990.

Morris-Downes MM et al., Semliki Forest virus-based vaccines: persistence, distribution and pathological analysis in two animal systems. *Vaccine* 19, 1978–1988, 2001.

Willems WR, Kaluza G, Boschek CB, Semliki Forest virus: cause of a fatal case of human encephalitis. *Science* 203, 1127–1129, 1979.

1.2.5 Sindbis-Fieber

Assuncao-Miranda I, Bozza MT, Da Poian AT, Pro-inflammatory response resulting from Sindbis virus infection of human macro-

- phages: implications for the pathogenesis of viral arthritis. *J. med. Virol.* 82, 164–174, 2010.
- Brummer-Korvenkontio M et al., Epidemiology of Sindbis virus infections in Finland 1981–1996: possible factors explaining a peculiar disease pattern. *Epidemiol. Infect.* 129, 335–345, 2002.
- Calisher CH, Alphavirus infections (family *Togaviridae*). In: Porterfield JS (ed.), *Exotic viral infections*. 1–18. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Horling J et al., Detection of Ockelbo virus RNA in skin biopsies by polymerase chain reaction. *J. Clin. Microbiol.* 31, 2004–2009, 1993.
- Kurkela S et al. (2004), Causative agent of Pogosta disease isolated from blood and skin lesions. *Emerg. Infect. Dis.* 10, 889–894,
- Kurkela S et al. (2005), Clinical and laboratory manifestations of Sindbis virus infection: prospective study, Finland, 2002–2003. *J. Infect. Dis.* 191, 1820–1829.
- Kurkela S et al. (2008), Sindbis virus infection in resident birds, migratory birds, and humans, Finland. *Emerg. Infect. Dis.* 14, 41–47.
- Kurkela S et al. (2008), Arthritis and arthralgia three years after Sindbis virus infection: clinical follow-up of a cohort of 49 patients. *Scan. J. Infect. Dis.* 40, 167–173.
- Laine M et al. (2003), Prevalence of sindbis-related (Pogosta) virus infections in patients with arthritis. *Clin. Exp. Rheumatol.* 21, 213–216.
- Laine M et al. (2000), Prolonged arthritis associated with Sindbis-related (Pogosta) virus infection. *Rheumatology (Oxford)*. 39, 1272–1274.
- Manni T et al., Diagnostics of Pogosta disease: antigenic properties and evaluation of Sindbis virus IgM and IgG enzyme immunoassays. *Vector Borne Zoo. Dis.* 8, 303–311, 2008.
- Pfeffer et al., Genus-specific detection of alphavirus-es by a semi-nested reverse transcription-polymerase chain reaction. *Am. J. Trop. Med. Hyg.* 57, 709–718, 1997.
- Sammels et al., Geographic distribution and evolution of Sindbis virus in Australia. *J. Gen. Virol.* 80, 739–748, 1999.
- Turell M.J et al., Isolation of West Nile and sindbis viruses from mosquitoes collected in the Nile Valley of Egypt during an outbreak of Rift Valley fever. *J. Med. Entomol.* 39, 248–250, 2002.
- 1.2.6 Epidemische Polyarthrit. Ross-River und Barmah-Forest-Virus**
- Aaskov JG et al., Surveillance for Ross River virus infection using blood donors. *Am. J. Trop. Med. Hyg.* 58, 726–730, 1998.
- Azuolas JK et al., Isolation of Ross River virus from mosquitoes and from horses with signs of muskulo-skeletal disease. *Aust. Vet. J.* 81, 344–347, 2003.
- Calisher CH, Alphavirus infections (family *Togaviridae*), 1–18. In: Porterfield JS (ed.), *Exotic viral infections*. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Jacups SP, Whelan PI, Currie BJ, Ross River virus and Barmah Forest virus infections: a review of history, ecology, and predictive models, with implications for tropical northern Australia. *Vector Borne Zoo. Dis.* 8, 283–297, 2008.
- Johnson AJ et al., Detection of anti-arboviral immunoglobulin G by using a monoclonal antibody-based capture enzyme-linked immunosorbent assay. *J. Clin. Microbiol.* 38, 1827–1831, 2000.
- Kelly-Hope LA et al., Ross River virus disease in Australia, 1886–1998, with analysis of risk factors associated with outbreaks. *J. Med. Entomol.* 41, 133–150, 2004.
- Klapsing P et al., Ross River virus disease re-emergence, Fiji, 2003–2004. *Emerg. Infect. Dis.* 11, 613–615, 2005.
- Lidbury BA, Mahalingam S, Specific ablation of antiviral gene expression in macrophages by antibody-dependent enhancement of Ross River virus infection. *J. Virol.* 74, 8376–8381, 2000.
- Lindsay M et al., An outbreak of Ross River virus disease in Southwestern Australia. *Emerg. Infect. Dis.* 2, 117–120, 1996.
- Linn ML, Aaskov JG, Suhrbier A, Antibody-dependent enhancement and persistence in macrophages of an arbovirus associated with arthritis. *J. Gen. Virol.* 77, 407–411, 1996.
- Martin DA et al., Standardization of immunoglobulin M capture enzyme linked immunosorbent assays for routine diagnosis of arboviral infections. *J. Clin. Microbiol.* 38, 1823–1826, 2001.
- Pfeffer MB et al., Genus-specific detection of alphaviruses by a semi-nested reverse

- transcriptionpolymerase chain reaction. *Am. J. Trop. Med. Hyg.* 57, 709–718, 1997.
- Poindinger M et al., Genetic stability among temporally and geographically diverse isolates of Barmah Forest virus. *Am. J. Trop. Med. Hyg.* 57, 230–234, 1997.
- Proll S et al., Persistierende Arthralgien bei Ross-River-Virus-Erkrankung nach Ozeanien-Reise. *Dtsch. Med. Wochenschr.* 124, 759–762, 1999.
- Rulli NE et al., The molecular and cellular aspects of arthritis due to alphavirus infections: lesson learned from Ross River virus. *Ann. N.Y. Acad. Sci.* 1102, 96–108, 2007.
- Sellner IN, Coelen RJ, Mackenzie JS, Detection of Ross River virus in clinical samples using a nested reverse transcription-polymerase chain reaction. *Clin. Diagn. Virol.* 4, 257–267, 1995.
- Sellner L, A single-tube nested RT-PCR for the detection of Ross River virus. *Methods Mol. Biol.* 92, 145–152, 1998.
- Soden M et al., Detection of viral ribonucleic acid and histologic analysis of inflamed synovium in Ross River virus infection. *Arthritis Rheum.* 43, 365–369, 2000.
- Suhrbier A, La Linn M, Clinical and pathologic aspects of arthritis due to Ross River virus and other alphaviruses. *Curr. Opin. Rheumatol.* 16, 374–379, 2004.
- Woodruff RE, Early warning of Ross River virus epidemics: combining surveillance data on climate and mosquitoes. *Epidemiology* 17, 569–575, 2006.
- 1.2.7 Chikungunya-Fieber**
- Arankalle VA et al., Genetic divergence of Chikungunya viruses in India (1963–2006) with special reference to the 2005–2006 explosive epidemic. *J. Gen. Virol.* 88, 1967–1976, 2007.
- Borgherini G et al. (2007), Outbreak of Chikungunya on Reunion Island: early clinical and laboratory features in 157 adult patients. *Clin. Infect. Dis.* 44, 1401–1407, 2007.
- Borgherini G et al. (2008), Persistent arthralgia associated with Chikungunya virus: a study of 88 adult patients on Reunion Island. *Clin. Infect. Dis.* 47, 469–475
- Brouard CP et al., Estimated risk of Chikungunya viremic blood donation during an epidemic on Reunion Island in the Indian Ocean, 2005 to 2007. *Transfusion* 48, 1333–1341, 2008.
- Calisher CH, Alphavirus infections (family *Togaviridae*). In: Porterfield JS (ed.), *Exotic viral infections*. 1–18. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Chen LH, Wilson ME, Dengue and Chikungunya infections in travelers. *Curr. Opin. Infect. Dis.* 23, 438–444, 2010.
- Collao X et al., Different lineages of Chikungunya virus in Equatorial Guinea in 2002–2006. *Am. J. Trop. Med. Hyg.* 82, 505–507, 2010.
- Diallo M et al., Vectors of Chikungunya virus in Senegal: current data and transmission cycles. *Am. J. Trop. Med. Hyg.* Feb 60, 281–286, 1999.
- Economopoulou A et al., Atypical Chikungunya virus infections: clinical manifestations, mortality and risk factors for severe disease during 2005–2006 outbreak on Reunion. *Epidemiol. Infect.* 137, 534–541, 2009.
- Eisenhut M, Schwarz TF, Hegenscheid B, Seroprevalence of Dengue, Chikungunya and Sindbis virus infections in German aid workers. *Infection* 27, 82–85, 1999.
- Fritel X et al., Chikungunya virus infection during pregnancy, Reunion, France, 2006. *Emerg. Infect. Dis.* 16, 418–425, 2010.
- Gould LH et al., An outbreak of yellow fever with concurrent chikungunya virus transmission in South Kordofan, Sudan, 2005. *Trans. R. Soc. Trop. Med. Hyg.* 102, 1247–1254, 2008.
- Gould EA, Higgs S, Impact of climate change and other factors on emerging arbovirus diseases. *Trans. R. Soc. Trop. Med. Hyg.* 103, 109–121, 2009.
- Griffin DE, Alphaviruses. In: Knipe DM, Howley PM (eds.), *Fields virology*, 917–962, Lippincott, Williams & Wilkins, Philadelphia. 4th ed, 2001.
- Grivard P et al., Molecular and serological diagnosis of Chikungunya virus infection. *Pathol. Biol. (Paris)* 55, 490–494, 2007.
- Guilherme JM et al., Seroprevalence of five arboviruses in Zebu cattle in the Central African Republic. *Trans. R. Soc. Trop. Med. Hyg.* 90, 31–33, 1996.
- Her Z et al., Chikungunya: a bending reality. *Microbes Infect.* 11, 1165–1176, 2009.
- Johnson AJ et al., Detection of anti-arboviral immunoglobulin G by using a monoclonal antibody-based capture enzyme-linked

- immunosorbent assay. *J. Clin. Microbiol.* 38, 1827–1831, 2000.
- Kariuki-Njenga M et al., Tracking epidemic Chikungunya virus into the Indian Ocean from East Africa. *J. Gen. Virol.* 89, 2754–2760, 2008.
- Kounsang, Y, Buranapiyawong D, Chikungunya in Thailand: a re-emerging disease? *Southeast Asian J. Trop. Med. Public Health.* 28, 359–364, 1997.
- Lanciotti RS et al., Emergence of epidemic O'nyongnyong fever in Uganda after a 35-year absence: genetic characterization of the virus. *Virology.* 252, 258–268, 1998.
- Liumbruno GM et al., The Chikungunya epidemic in Italy and its repercussion on the blood system. *Blood Transf.* 6, 199–210, 2008.
- Martin DA et al., Standardization of immunoglobulin M capture enzyme linked immunosorbent assays for routine diagnosis of arboviral infections. *J. Clin. Microbiol.* 38, 1823–1826, 2001.
- Massad E et al., The risk of chikungunya fever in a dengue-endemic area. *J. Travel. Med.* 15, 147–155, 2008.
- McCarthy MC et al., Evaluation of arthropod-borne viruses and other infectious disease pathogens as the causes of febrile illnesses in the Khartoum Province of Sudan. *J. Med. Virol.* 48, 141–146, 1996.
- McClain DJ et al., Immunologic interference from sequential administration of live attenuated alphavirus vaccines. *J. Infect. Dis.* 177, 634–641, 1998.
- Moro MLet al., Chikungunya virus in North-Eastern Italy: a seroprevalence survey. *Am. J. Trop. Med. Hyg.* 82, 508–511, 2010.
- Pfeffer M et al., Genus-specific detection of alphaviruses by a semi-nested reverse transcription-polymerase chain reaction. *Am. J. Trop. Med. Hyg.* 57, 709–18, 1997.
- Pile JC et al., Chikungunya in a North American traveler. *J. Travel. Med.* 6, 137–139, 1999.
- Pistone T et al., Cluster of chikungunya virus infection in travelers returning from Senegal, 2006. *J. Travel. Med.* 16, 286–288, 2009.
- Powers AM et al., Re-emergence of Chikungunya and O'nyong-nyong viruses: evidence for distinct geographical lineages and distant evolutionary relationships. *J. Gen. Virol.* 81, 471–479, 2000.
- Powers AM, Chikungunya. *Clin. Lab. Med.* 30, 209–219, 2010.
- Ramful D et al., Mother-to-child transmission of Chikungunya virus infection. *Pediatr. Infect. Dis.* 26, 811–815, 2007.
- Sissiko D et al. (2008), Outbreak of chikungunya fever in Mayotte, Comores archipelago, 2005–2006. *Trans. R. Soc. Trop. Med. Hyg.* 102, 780–786.
- Sissoko D et al. (2009), Post-epidemic Chikungunya disease on Reunion Island: course of rheumatic manifestations and associated factors over a 15-month period. *Plos Negl. Trop. Dis.* 3, e389, 2009.
- Smith DR et al., Development of field-based real-time reverse transcription-polymerase chain reaction assays for detection of Chikungunya and O'nyong-nyong viruses in mosquitoes. *Am. J. Trop. Med. Hyg.* 81, 679–684, 2009.
- Staples JE, Breiman RF, Powers AM, Chikungunya fever: an epidemiological review of a re-emerging infectious disease. *Clin. Infect. Dis.* 49, 942–948, 2009.
- Talbalaghi A et al., Are aedes albopictus or other mosquito species from northern Italy competent to sustain new arboviral outbreaks? *Med. Vet. Entomol.* 24, 83–87, 2010.
- Telles JN et al., Evaluation of real-time nucleic acid sequence-based amplification for detection of Chikungunya virus in clinical samples. *J. Med. Microbiol.* 58, 1168–1172, 2009.
- Thaikruea L et al., Chikungunya virus outbreak in Senegal in 1996 and 1997. *Bull. Soc. Pathol. Exot.* 92, 79–82, 1999.
- Tsai TF, Chandler LJ, Arboviruses. In: Murray PR, Baron JE, Jorgensen JH et al. (eds.), *Manual of Clinical Microbiology*, 1553–1569, 8th ed. ASM Press, Washington, 2003.
- Yap G et al., Evaluation of Chikungunya vdiagnostic assays: differences in sensitivity of serology assays in two independent outbreaks. *Plos Negl. Trop. Dis.* 4, e753, 2010.

1.2.8 O'nyong-nyong-Fieber

- Calisher CH, Alphavirus infections (family Togaviridae). In: Porterfield JS (ed.), *Exotic viral infections*. 1–18. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Guilherme JM et al., Seroprevalence of five arboviruses in Zebu cattle in the Central

- African Republic. *Trans. R. Soc. Trop. Med. Hyg.* 90, 31–33, 1996.
- Kiwanuka N et al., O'nyong-nyong fever in south-central Uganda, 1996–1997: clinical features and validation of a clinical case definition for surveillance purposes. *Clin. Infect. Dis.* 29, 1243–1250, 1999.
- Lanciotti RS et al., Emergence of epidemic O'nyongnyong fever in Uganda after a 35-year absence: genetic characterization of the virus. *Virology.* 252, 258–268, 1998.
- Lutwama JJ et al., Epidemic O'nyong-nyong fever in southcentral Uganda, 1996–1997: entomologic studies in Bbaale village, Rakai District. *Am. J. Trop. Med. Hyg.* 61, 158–162, 1999.
- Posey DL et al., O'nyong-nyong fever in West Africa. *Am. J. Trop. Med. Hyg.* 73, 32, 2005.
- Powers AM, Re-emergence of Chikungunya and O'nyong-nyong viruses: evidence for distinct geographical lineages and distant evolutionary relationships. *J. Gen. Virol.* 81, 471–479, 2000.
- Sanders EJ et al., O'nyong-nyong fever in South-Central Uganda, 1996–97: Description of the epidemic and results of a household based seroprevalence survey. *J. Infect. Dis.* 180, 1436–1443, 1999.
- Smith DR et al., Development of field-based real-time reverse transcription-polymerase chain reaction assays for detection of Chikungunya and O'nyong-nyong viruses in mosquitoes. *Am. J. Trop. Med. Hyg.* 81, 679–684, 2009.
- Vanlandingham DL et al., Determinants of vector specificity of O'nyong nyong and chikungunya viruses in anopheles and aedes mosquitoes. *Am. J. Trop. Med. Hyg.* 74, 663–669, 2006.
- 1.2.9 Mayaro-Fieber**
- Azevedo RS et al., Mayaro fever virus, Brazilian Amazon. *Emerg. Infect. Dis.* 15, 1830–1832, 2009.
- Bronzoni RV et al., Multiplex nested PCR for Brazilian alphavirus diagnosis. *Trans. R. Soc. Trop. Med. Hyg.* 98, 456–461, 2004.
- Calisher CH, Alphavirus infections (family *Togaviridae*). In: Porterfield JS (ed.), *Exotic viral infections.* 1–18. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- De Thoisy BJ et al., Mayaro virus in wild animals, French Guiana. *Emerg. Infect. Dis.* 9, 1326–1329, 2003.
- Hassing RJ, Leparco-Goffart I, Blank SN et al., Imported Marayo virus infection in the Netherlands. *J. Infect.* 61, 343–345, 2010.
- Lavergne A et al., Complete nucleotide sequence and phylogenetic relationships with other alphaviruses. *Virus Res.* 117, 283–290, 2006.
- Talarmin A et al., Mayaro virus fever in French Guiana: isolation, identification, and seroprevalence. *Am. J. Trop. Med. Hyg.* 59, 452–456, 1998.
- Tesh RB et al., Mayaro virus disease: an emerging mosquito-borne zoonosis in tropical South America. *Clin. Infect. Dis.* 28, 67–73, 1999.
- Torres JR et al., Family cluster of Mayaro fever, Venezuela. *Emerg. Infect. Dis.* 10, 1304–1306, 2004.
- 1.3 Flaviviren**
- Burke DS, Monath TP, Flaviviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields virology*, 1043–1126, Lippincott, Williams & Wilkins, Philadelphia. 4th ed, 2001.
- Cavrini F et al., Usutu virus infection in a patient who underwent orthotopic liver transplantation, Italy, August–September 2009. *Euro Surveill* 14:pii=19448.
- CDC, Possible West Nile virus transmission to an infant through breast-feeding – Michigan, 2002. *JAMA*, 288, 1976–1977, 2002.
- CDC, West Nile virus activity – United States, September 26 – October 2, 2002, and investigations of West Nile virus infections in recipients of blood transfusion and organ transplantation. *JAMA*, 288, 1975–1976, 2002.
- Chan RC et al., Hepatitis and death following vaccination with 17D-204 yellow fever vaccine. *Lancet* 358, 121–122, 2001.
- Chang GJ et al., Flavivirus DNA vaccines: current status and potential. *Ann. N. Y. Acad. Sci.* 951, 272–285, 2001.
- Diamond MS, Progress on the development of therapeutics against West Nile virus. *Antivir. Res.* 83, 214–227, 2009.
- Galler R et al., Phenotypic and molecular analyses of yellow fever 17DD vaccine viruses associated with serious adverse events in Brazil. *Virology.* 290, 309–319, 2001.
- Fernandez-Garcia MD et al., Pathogenesis of flavivirus infections: using and abusing

- the host cell. *Cell Host Microbe* 5, 318328, 2009.
- Gardner CL, Ryman CD, Yellow fever: a re-emerging threat. *Clin. Lab. Med.* 30, 237–260, 2010.
- Harris E et al., Molecular biology of flavivirus. *Novartis Found. Symp.* 277, 23–39, 2006.
- Jansen CC, Beebe NW, The dengue vector *Aedes aegypti*: what comes next. *Microbes Infect.* 12, 272–279, 2010.
- Johnson AJ et al., Detection of anti-arboviral immunoglobulin G by using a monoclonal antibody-based capture enzyme-linked immunosorbent assay. *J. Clin. Microbiol.* 38, 1827–1831, 2000.
- Kimura T et al., Flavivirus encephalitis: pathological aspects of mouse and other animal models. *Vet. Pathol.* 47, 806–818, 2010.
- Knauber M et al., Clinical proof of principle for ChimeriVax: recombinant live, attenuated vaccines against flavivirus infections. *Vaccine* 20, 1004–1018, 2002.
- Kramer LD, Li J, Shi PY, West Nile virus. *Lancet Neurol.* 6, 171–181, 2007.
- Kyle JL, Harris E, Global spread and persistence of dengue. *Annu. Rev. Microbiol.* 62, 71–92, 2008.
- Lasala PR, Holbrook M, Tick-borne flaviviruses. *Clin. Lab. Med.* 30, 221–235, 2010.
- Leong AS et al., The pathology of dengue hemorrhagic fever. *Semin. Diagn. Pathol.* 24, 227–236, 2007.
- Malet H et al., The flavivirus polymerase as a target for drug discovery. *Antivir. Res.* 80, 23–35, 2008.
- Marin M et al., Fever and multisystem organ failure associated with 17D yellow fever vaccination: a report of four cases. *Lancet* 358, 98–104, 2001.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield, JS (ed.), *Exotic viral diseases.* 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Martin DA et al., Standardization of immunoglobulin M capture enzyme linked immunosorbent assays for routine diagnosis of arboviral infections. *J. Clin. Microbiol.* 38, 1823–1826, 2001.
- Martina BE, Koraka P, Osterhaus AD, Dengue virus pathogenesis: an integrated view. *Clin. Microbiol. Rev.* 22, 564–581, 2009.
- Miller N, Recent progress in dengue vaccine research and development. *Curr. Opin. Mol. Ther.* 12, 31–38, 2010.
- Monath TP (2001), Yellow fever: an update. *Lancet Infect Dis.* 1, 11–20.
- Monath TP (2008), Treatment of yellow fever. *Antivir. Res.* 78, 116–124.
- Olifant T, Diamond MS, The molecular basis of antibody-mediated neutralization of West Nile virus. *Expert Opin. Biol. Ther.* 7, 885–892, 2007.
- Pattniak P, Kyasanur forest disease: an epidemiological view in India. *Rev. Med. Virol.* 16, 151–165, 2006.
- Petersen LR, Hayes EB, West Nile virus in the Americas. *Med. Clin. North Am.* 92, 1307–1322, 2008.
- Pond WL et al., Heterotypic serologic responses after yellow fever vaccination; detection of persons with past St. Louis encephalitis or dengue. *J. Immunol.* 98, 673–682, 1967.
- Ruzek D et al., Omsk haemorrhagic fever. *Lancet* 376, 2104–2104, 2010.
- Schlesinger JJ, Brandriss MW, Antibody-mediated infection of macrophages and macrophage-like cell lines with 17D-yellow fever virus. *J. Med. Virol.* 8, 103–117, 1981.
- Schlesinger JJ, Brandriss MW, Growth of 17D yellow fever virus in a macrophage-like cell line, U937: role of Fc and viral receptors in antibody-mediated infection. *J. Immunol.* 127, 659–665, 1981.
- Stiasny K, Heinz FX, Flavivirus membrane fusion. *J. Gen. Virol.* 87, 2755–2766, 2006.
- Tesh RB et al., Immunization with heterologous flaviviruses protective against fatal West Nile encephalitis. *Emerg. Infect. Dis.* 8, 245–251, 2002.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of human viruses by polymerase chain reaction technology,* Chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Tsai TF, Chandler LJ, Arboviruses. In: Murray PR, Baron JE, Jorgensen JH et al. (eds.), *Manual of Clinical Microbiology,* 1553–1569, 8th ed. ASM Press, Washington, 2003.
- Urcuqui-Inchima S et al., Recent developments in understanding dengue virus replication. *Adv. Virus Res.* 77, 1–39, 2010.
- Van den Hurk AF, Ritchie SA, Mackenzie JS, Ecology and geographical expansion of Japanese encephalitis virus. *Annu. Rev. Entomol.* 54, 17–35, 2009.

- Van der Schaar HM, Wilschut JC, Smit JM, Role of antibodies in controlling dengue virus infection. *Immunobiol.* 214, 613–629, 2009.
- Vasconcelos PFC et al., Serious adverse events associated with yellow fever 17D vaccine in Brazil: a report on two cases. *Lancet* 358, 91–97, 2001.
- Weissenbock H et al., Emergence of Usutu virus, an African Mosquito-borne flavivirus of the Japanese encephalitis virus group, Central Europe. *Emerg. Infect. Dis.* 8, 652–656, 2002.
- 1.3.1 Frühsommer-Meningoenzephalitis (FSME und RSSE)**
- Alkadhi H, Kollias SL, MRI in tick-borne encephalitis. *Neuroradiology* 42, 753–755, 2000.
- Arras C, Fescharek R, Gregersen JP, Do specific hyperimmunoglobulins aggravate clinical course of tick-borne encephalitis? *Lancet* 347, 1331, 1996.
- Bakhvalova VN et al., Tick-borne encephalitis strains of Western Siberia. *Virus Res.* 70, 1–12, 2000.
- Blessing J, Epidemiologie und Diagnose der Frühsommer-Meningoenzephalitis. *Med. Welt* 32, 1345–1347, 1981.
- Bröker M, Kollaritsch H, After a tick bite in a tick-borne encephalitis virus endemic area: current positions about post-exposure treatment. *Vaccine*, 26, 863–868, 2008.
- Dobler G, Zoonotic tick-borne flaviviruses. *Vet. Microbiol.* 140, 221–228, 2010.
- Duppenthaler A, Pfammatter JP, Aebi C, Myopericarditis associated with central European tick-borne encephalitis. *Eur. J. Pediatr.* 159, 854–856, 2000.
- Gaidamovich SY, Tick-borne encephalitis, 203–210. In: Porterfield JS (ed.), *Exotic Viral Diseases*. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Heyman P et al., A clear and present danger: tick-borne diseases in Europe. *Expert Rev. Anti. Thera.* 8, 33–50, 2010.
- Holzmann et al., Correlation between ELISA, hemagglutinin inhibition, and neutralization tests after vaccination against tick-borne encephalitis. *J. Med. Virol* 48, 102–107, 1996.
- Kaiser R, Tick-borne encephalitis. *Infect. Dis. Clin. North Am.* 22, 561–575, 2008.
- Kurane I et al., Trend in flavivirus infections in Japan. *Emerg. Infect. Dis.* 6, 569–571, 2000.
- Latrice-Furlan S et al., Clinical distinction between human granulocytic ehrlichiosis and the initial phase of tick-borne encephalitis. *J. Infect.* 40, 55–58, 2000.
- Lindquist L, Vapalathi O, Tick-borne encephalitis. *Lancet* 371, 1861–1871, 2008.
- Logar M et al., Comparison of the epidemiological and clinical features of tick-borne encephalitis in children and adults. *Infection* 28, 74–77, 2000.
- Lu Z, Bröker M, Liang G, Tick-borne encephalitis in mainland China. *Vector Borne Zoo. Dis.* 8, 713–720, 2008.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases, 47–66. In: Porterfield JS (ed.), *Exotic viral diseases*. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Özdemir FA et al., Frühsommermeningoenzephalitis (CEE) – Ausweitung des Endemiegebietes nach Mittelhessen. *Der Nervenarzt* 70, 119–122, 1999.
- Rendi-Wagner P, Persistence of antibodies after vaccination against tick-borne encephalitis. *Int. J. med. Microbiol.* 296 (suppl. 40), 202–207, 2006.
- Rendi-Wagner P, Advances in vaccination against tick-borne encephalitis. *Expert Rev. Vacc.* 7, 589–596, 2008.
- Schmaljohn C et al., Evaluation of tick-borne encephalitis DNA vaccines in monkeys. *Virology.* 263, 166–74, 1999.
- Schrader C, Suss J, A nested RT-PCR for the detection of tick-borne encephalitis virus (TBEV) in ticks in natural foci. *Zentralbl. Bakteriologie* 289, 319–328, 1999.
- Süss J et al., Tick-borne encephalitis (TBE) in Germany – epidemiological data, development of risk areas and virus prevalence in field-collected ticks and ticks removed from humans. *Int. J. Med. Microbiol.* 293 (suppl. 37), 69–79, 2004.
- Treib J et al., Tick-borne encephalitis in the Saarland and the Rhineland-Palatinate. *Infection* 24, 242–244, 1996.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.

- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Waldvogel et al., Severe tick-borne encephalitis following passive immunization. *Eur. J. Paediatr.* 155, 775–779, 1996.

1.3.2 Louping Ill

- Gaidamovich SY, Louping Ill. In: Porterfield JS (ed.), *Exotic viral diseases*, 211–212. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Gao GF et al., Sequencing and antigenic studies of a Norwegian virus isolated from encephalomyelitic sheep confirm the existence of Louping Ill-virus outside Great Britain and Ireland. *J. Gen. Virol.* 74, 109–114, 1993.
- Gaunt MW et al., Definitive identification of Louping Ill virus by RT-PCR and sequencing in field populations of *Ixodes ricinus* on the Lochindorb estate. *Arch. Virol.* 142, 1181–1191, 1997.
- Gilbert L et al., Role of small mammals in the persistence of Louping Ill virus: field survey and tick co-feeding studies. *Med. Vet. Entomol.* 14 (3), 277–282, 2000.
- Laurenson MK et al., The role of lambs in Louping Ill amplification. *Parasitology* 120, 97–104, 2000.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of human viruses by polymerase chain reaction technology*, Chapter 27, 355–369, Springer, Berlin, Hin, Heidelberg, New York, 1992.

1.3.3 Powassan-Virus-Enzephalitis

- Artsob H, Powassan encephalitis. In: Monath, T (ed.), *The arboviruses*, 29–49, Boca Raton CRC-Press, Fla. 1989.
- CDC, Arboviral infections of the central nervous system – United States, 1996–1997. *MMWR Morb Mortal Wkly. Rep.* 47, 517–522, 1998.

- CDC, Outbreak of Powassan encephalitis – Maine and Vermont, 1999–2001. *MMWR Morb. Mortal Wkly. Rep.* 50, 761–764, 2001.
- CDC, Outbreak of Powassan encephalitis – Maine and Vermont, 1999–2001. *JAMA* 286, 1962–1963, 2001.
- Ebel GD, Update on Powassan virus: emergence of a North American tick-borne flavivirus. *Annu. Rev. Entomol.* 55, 95–110, 2010.
- Ford-Jones EL et al., Human surveillance for West Nile virus infection in Ontario in 2000. *CMAJ* 166, 29–35, 2002.
- Gholam BI, Puksa S, Provias JP, Powassan encephalitis: a case report with neuropathology and literature review. *Can. Med. Ass. J.* 161, 1419–1422, 1999.
- Luby JP, Powassan encephalitis 223–226. In: Porterfield JS (ed.), *Exotic viral diseases*. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Romero JR, Simonson KA, Powassan encephalitis and Colorado tick fever. *Infect. Dis. Clin. North Am.* 22, 545–559, 2008.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.

1.3.4 Kyasanur-Forest-Disease

- Adhikari-Prabha MR et al., Clinical study of 100 cases of Kyasaur Forest disease with clinicopathological correlation. *Indian J. Med. Sci.* 47, 124–130, 1993.
- Artsob H, Powassan encephalitis. In: Monath, T (ed.), *The arboviruses*, 29–49, Boca Raton Fla. CRC-Press, 1989.
- CDC, Arboviral infections of the central nervous system – United States, 1996–1997. *MMWR Morb. Mortal Wkly. Rep.* 47, 517–522, 1998.
- Charrel RN et al., Complete coding sequence of the Alkhurma virus, a tick-borne flavivirus causing severe hemorrhagic fever in humans in Saudi Arabia. *Biochem. Biophys. Res. Commun.* 287, 455–461, 2001.

- Dandawate CN et al., Field evaluation of formalin inactivated Kyasanur forest disease virus tissue culture vaccine in three districts of Karnataka state. *Indian J. Med. Res.* 99, 152–158, 1994.
- Gaidamovich SY, Kyasanur forest disease. In: Porterfield JS (ed.), *Exotic viral diseases*. 215–216, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Mehla R et al., Recent ancestry of Kyasanur Forest disease virus. *Emerg. Infect. Dis.* 15, 1431–1437, 2009.
- Pattnaik P, Kyasanur Forest disease: an epidemiological view in India. *Rev. Med. Virol.* 16, 151–165, 2006; erratum: *Rev. Med. Virol.* 18,211, 2008.
- Saxena VK, Ixodid ticks infesting rodents and sheep in diverse biotopes of southern India. *J. Parasitol.* 83, 766–767, 1997.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Venugopal K et al., Analysis of the structural protein gene sequence shows Kyasanur forest disease virus as a distinct member in the tickborne encephalitis virus serocomplex. *J. Gen. Virol.* 75, 227–232, 1994.
- 1.3.5 Omsker hämorrhagisches Fieber**
- Gaidamovich SY, Kyasanur forest disease. In: Porterfield JS (ed.), *Exotic viral diseases*. 215–216. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Holbrook MR et al., An animal model for the tickborne flavivirus Omsk hemorrhagic fever virus. *J. Infect. Dis.* 191,100–108, 2005.
- Li L et al., Molecular determinants of antigenicity of two subtypes of tick-borne flavivirus Omsk haemorrhagic fever virus. *J. Gen. Virol.* 85,1619–1624, 2004.
- Lin D et al., Analysis of the complete genome of the tick-borne flavivirus Omsk haemorrhagic fever virus. *Virology* 313, 81–90, 2003.
- Lvov DK, Arboviral zoonoses of northern Eurasia. In: Beran GW, Steele JH (eds.), *Handbook of Zoonoses*, Section B, 237–260, 2nd ed. CRC. Boca Raton, 1994.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Yoshii K, Hoolbrook MR, Sub-genomic replicon and virus-like particles of Omsk hemorrhagic fever virus. *Arch. Virol.* 154, 573–580, 2009.
- 1.3.6 Japanische Enzephalitis**
- Appaiahgari MB, Vrati S, IMOJEV®: a yellow-fever virus-based novel Japanese encephalitis vaccine. *Expert Rev. Vacc.* 9, 1371–1384, 2010.
- Arroyo et al., Molecular basis for attenuation of neurovirulence of a yellow fever virus/Japanese encephalitisvirus chimera vaccine (ChimeriVax-JE). *J. Virol.* 75, 934–942, 2001.
- Ashok MS, Rangarajan PN, Evaluation of the potency of BIKEN inactivated Japanese encephalitis vaccine and DNA-vaccines in an intracerebral Japanese encephalitis virus challenge. *Vaccine.* 19, 155–157, 2000.
- Beecham III HJ et al., A cluster of severe reactions following improperly administered Takeda Japanese encephalitis vaccine. *J. Travel. Med.* 4, 8–10, 1997.
- Buhl MR, Fatal Japanese encephalitis in a Danish tourist visiting Bali for 12 days. *Scand. J. Inf. Dis.* 28, 189, 1996.
- CDC, Inactivated Japanese encephalitis virus vaccine. Recommendations of the advisory committee on immunization practices. *MMWR* 42, 1993.
- Chung CC et al., Acute flaccid paralysis as an unusual presenting symptom of Japanese encephalitis: a case report and review of the literature. *Infection* 35, 30–32, 2007.
- Dubischar-Kastner K et al., Safety analysis of a Vero-cell culture derived Japanese encephalitis vaccine, IXIARO (IC51), in 6 months of follow-up. *Vaccine* 28, 6463–6469, 2010.
- Dubischar-Kastner K et al., Long-term immunity and immune response to a booster dose following vaccination with the inactivated Japanese encephalitis vaccine. *Vaccine* 28, 5197–5202, 2010.

- Fischer M, Lindsay N, Staples JE, Centers for Disease Control and Prevention: Japanese encephalitis vaccine: recommendations of the Advisory Committee on Immunization Practices (ACIP). *Morb. Mort. Wkly. Rep.* 59, 1–27, 2010.
- Halstead SB, Thomas SJ, Japanese encephalitis: new options for active immunization. *Clin. Infect. Dis.* 50, 1155–1164, 2010.
- Innis BI, Japanese encephalitis. In: Porterfield JS (ed.), *Exotic viral diseases*, 147–174, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Jellinek T, Ixiaro: a new vaccine against Japanese encephalitis. *Expert Rev. vacc.* 8, 1501–1511, 2009.
- Kaltenböck A et al., Immunogenicity and safety of IXIARO (IC51) in a phase II study in healthy Indian children between 1 and 3 years of age. *Vaccine* 28, 834–939, 2010.
- Kanesa-Thanan N et al., Safety and immunogenicity of NYVACJEV and ALVAC-JEV attenuated recombinant Japanese encephalitis virus–poxvirus vaccines in vaccinia-nonimmune and vaccinia-immune humans. *Vaccine* 19, 483–491, 2000.
- Karunaratne SH, Hemingway J, Insecticide resistance spectra and resistance mechanisms in populations of Japanese encephalitis vector mosquitoes, *Culex tritaeniorhynchus* and *Cx. gelidus*, in Sri Lanka. *Med. Vet. Entomol.* 14, 430–436, 2000.
- Kurane I, Takasaki T, Yamada KI, Trends in flavivirus infections in Japan. *Emerg. Infect. Dis.* 6, 569–571, 2000.
- Liu ZL et al., Safety of live attenuated Japanese encephalitis vaccine (SA14-14-2): results of a randomized trial with 26,239 subjects. *J. Infect. Dis.* 176, 1366–1369, 1997.
- Liu W et al., Risk factors for Japanese encephalitis: a case-control study. *Epidemiol. Infect.* 138, 1292–1297, 2010.
- Mackenzie JS, Gubler DJ, Petersen LR, Emerging flaviviruses: the spread and resurgence of Japanese encephalitis, West Nile and dengue viruses. *Nat. Med.* 10, S98–S109, 2004.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Ogata A, Tashiro K, Pradhan S, Parkinsonism due to predominant involvement of substantia nigra in Japanese encephalitis. *Neurology* 55, 602, 2000.
- Oya A, Kurane I, Japanese encephalitis for a reference to international travelers. *J. Travel Med.* 14, 259–268, 2007.
- Plesner AM, Ronne T, Allergic mucocutaneous reactions to Japanese encephalitis vaccine. *Vaccine* 15, 1239–1243, 1997.
- Robinson JS et al., Evaluation of three commercially available Japanese encephalitis virus IgM enzyme-linked immunosorbent assays. *Am. J. Trop. Med. Hyg.* 83, 1146–1155, 2010.
- Takahashi H et al., Adverse events after Japanese encephalitis vaccination: review of post-marketing surveillance data from Japan and the United States. The VAERS Working Group. *Vaccine* 18, 2963–2969, 2000.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of human viruses by polymerase chain reaction technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Tsai TR, Chang GW, Yu YX, Japanese encephalitis vaccines. In: Plotkin SA, Orenstein WA (eds.), *Vaccines*, 672–710, 3rd ed. WB Saunders, Inc. Philadelphia, PA, 1999.
- Victor TJ, Reuben R, Effects of organic and inorganic fertilisers on mosquito populations in rice fields of southern India. *Med. Vet. Entomol.* 14, 361–368, 2000.
- Wilder-Smith A, Halstead S, Japanese encephalitis: update on vaccines and vaccine recommendations. *Curr. Opin. Infect. Dis.* 23, 426–431, 2010.
- Yeh JY et al., Fast duplex one-step reverse transcriptase PCR for rapid differential detection of West Nile and Japanese encephalitis viruses. *J. Clin. Microbiol.* 48, 4010–4014, 2010.

1.3.7 Murray-Valley-Enzephalitis und Kunjin-Fieber

- Andrews DM et al., The severity of Murray Valley encephalitis in mice is linked to neutrophil infiltration and inducible nitric oxide synthase activity in the central nervous system. *J. Virol.* 73, 8781–8790, 1999.

- Broom AK et al. (1995), Two possible mechanisms for survival and initiation of Murray Valley encephalitis virus activity in the Kimberley region of Western Australia. *Am. J. Trop. Med. Hyg.* 53, 95–99.
- Broom et al. (2000), Immunisation with gamma globuline to Murray valley encephalitis virus and with an inactivated Japanese encephalitis virus vaccine as prophylaxis against Australian encephalitis: evaluation in a mouse model. *J. Med. Virol.* 61, 259–265.
- Broom et al. (2003), Epizootic activity of Murray Valley encephalitis and Kunjin viruses in an aboriginal community in the southeast Kimberley region of Western Australia: results of mosquito fauna and virus isolation studies. *Am. J. Trop. Med. Hyg.* 69, 277–283.
- Brown A et al., Reappearance of human cases due to Murray Valley encephalitis and Kunjin virus in central Australia after an absence of 26 years. *Commun. Dis. Intell.* 26, 39–44, 2002.
- Hall RA, Scherret JH, Mackenzie JS, Kunjin virus: an Australian variant of West Nile? *Ann. N. Y. Acad. Sci.* 951, 153–160, 2001.
- Hawkes RA, Murray Valley encephalitis and related infections, 175–182. In: Porterfield JS (ed.), *Exotic viral diseases*. Chapman and Hall Medical, London, New York, Tokyo. 1995.
- Huppertz C et al., Encephalitis in Australia, 1979–2006: trends and aetiologies. *Commun. Dis. Intell.* 33, 192–197, 2009.
- Johansen CA et al., Genetic and phenotypic differences between isolates of Murray Valley encephalitis virus in Western Australia, 1972–2003. *Virus Genes* 35, 147–154, 2007.
- Joy J et al., Biochemical characterization of Murray Valley encephalitis virus proteinase. *FEBS Lett.* 584, 3149–3152, 2010.
- Lobigs M et al., Live chimeric and inactivated Japanese encephalitis virus vaccines differ in their cross-protective values against Murray Valley encephalitis virus. *J. Virol.* 83, 2436–2445, 2009.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Mackenzie JS, Emerging viral diseases: an Australian perspective. *Emerging Infectious Diseases* 5, 1–8, 1999.
- McMinn PC, Carman PG, Smith DW, Early diagnosis of Murray Valley encephalitis by reverse transcriptase-polymerase chain reaction. *Pathology.* 32, 49–51, 2000.
- Mancini EJ, et al., Structure of the Murray Valley encephalitis virus RNA helicase at 1.9 Angstrom resolution. *Protein Sci.* 16, 2294–2300, 2007.
- Matthews V et al., Morphological features of Murray Valley encephalitis virus infection in the central nervous system of Swiss mice. *Int. J. Exp. Pathol.* 81, 31–40, 2000.
- Pyke AT et al., Detection of Australasian flavivirus encephalitic viruses using rapid fluorogenic TaqMan RT-PCR assays. *J. Virol. Meth.* 117, 161–167, 2004.
- Stich G et al., Clinical and laboratory findings on the first imported case of Murray Valley encephalitis in Europe. *Clin. Infect. Dis.* 37, e19–e21, 2003.
- Studdert MJ et al., Polymerase chain reaction tests for the identification of Ross River, Kunjin and Murray Valley encephalitis virus infections in horses. *Aust. Vet. J.* 81, 76–80, 2003.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.

1.3.8 St. Louis-Enzephalitis

- Auguste AJ, Pybus OG, Carrington CV, Evolution and dispersal of St. Louis encephalitis virus in the Americas. *Infect. Genet. Evol.* 9, 709–715, 2008.
- Baillie GJ et al., Phylogenetic and evolutionary analyses of St. Louis encephalitis virus genomes. *Mol. Phylogenet. Evol.* 47, 717–728, 2008.
- Chandler LJ, Parsons R, Randle Y, Multiple genotypes of St. Louis encephalitis virus (Flaviviridae: Flavivirus) circulate in Harris County, Texas. *Am. J. Trop. Med. Hyg.* 64, 12–19, 2001.
- Chang GJ, et al., Flavivirus DNA vaccines: current status and potential. *Ann. N. Y. Acad. Sci.* 951, 272–285, 2001.
- Darwish MA, Hammon WM, Preparation of inactivated St. Louis encephalitis virus

- vaccine from hamster kidney cell culture. *Proc. Soc. Exp. Biol. Med.* 123, 242–246, 1966.
- Day JF, Stark LM, Frequency of Saint Louis encephalitis virus in humans from Florida, USA: 1990–1999. *J. Med. Entomol.* 37, 626–633, 2000.
- Day JF, Predicting St. Louis encephalitis virus epidemics: Lessons from recent, and not so recent, outbreaks. *Ann. Rev. Entomol.* 46, 111–138, 2001.
- Day JF, Sharman J, Severe winter freezes enhance St. Louis encephalitis virus amplification and epidemic transmission in peninsular Florida. *J. Med. Entomol.* 46, 1498–1506, 2009.
- Flores FS et al., Vertical transmission of St. Louis encephalitis virus in culex quinquefasciatus (diptera: culicidae) in Cordoba, Argentina. *Vector Borne Zoo. Dis.* 10, 999–1002, 2010.
- Gruwell JA, et al., Role of peridomestic birds in the transmission of St. Louis encephalitis virus in southern California. *J. Wildl. Dis.* 36, 13–34. 2000.
- Hull R et al., A duplex real-time reverse transcriptase polymerase chain reaction assay for the detection of St. Louis encephalitis and eastern equine encephalitis viruses. *Diagn. Microbiol. Infect. Dis.* 62, 272–279, 2008.
- Lanciotti RS, Kerst AJ, Nucleic acid sequence-based amplification assays for rapid detection of West Nile and St. Louis encephalitis viruses. *J. Clin. Microbiol.* 39, 4506–4513, 2001.
- Luby JP, St. Louis Encephalitis Virus, 183–191, In: Porterfield JS (ed.), *Exotic viral diseases*. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- May FJ et al., Genetic variation of St. Louis encephalitis virus. *J. Gen. Virol.* 89, 1901–1910, 2008.
- Meehan PJ et al., Epidemiological features of and public health response to a St. Louis encephalitis epidemic in Florida, 1990–1. *Epidemiol. Infect.* 125, 181–188, 2000.
- Ottendorfer CL et al., Isolation of genotype V St. Louis encephalitis virus in Florida. *Emerg. Infect. Dis.* 15, 604–606, 2009.
- Patz JA, Reisen WK, Immunology, climate change and vector-borne diseases. *Trends Immunol.* 22, 171–172, 2001.
- Pesko K, Mores CN, Effect of sequential exposure on infection and dissemination rates for West Nile and St. Louis encephalitis viruses in culex quinquefasciatus. *Vector Borne Zoo. Dis.* 9, 281–286, 2009.
- Phillipotts RJ, Venugopal K, Brooks T, Immunization with DNA polynucleotides protects mice against lethal challenge with St. Louis encephalitis virus. *Arch Virol.* 141, 743–749, 1996.
- Pond WL et al., Carter: Heterotypic serologic responses after yellow fever vaccination; detection of persons with past St. Louis encephalitis or dengue. *J. Immunol.* 98, 673–682, 1967.
- Rahal JJ et al., Effect of interferon-alpha2b therapy on St. Louis viral meningoencephalitis: clinical and laboratory results from a pilot study. *J. Infect. Dis.* 190, 1084–1087, 2004.
- Reisen WK et al., Patterns of avian seroprevalence to western equine encephalomyelitis and Saint Louis encephalitis viruses in California, USA. *J. Med. Entomol.* 37, 507–527, 2000.
- Rodrigues SG et al., Molecular epidemiology of Saint Louis encephalitis in Brazilian Amazon: genetic divergence and dispersal. *J. Gen. Virol.* 91, 2420–2427, 2010.
- Sanago YO et al., A real-time TaqMan polymerase chain reaction for the identification of culex vectors of West Nile and Saint Louis encephalitis viruses in North America. *Am. J. Trop. Med. Hyg.* 77, 58–66, 2007.
- Shaman J et al., Seasonal forecast of St. Louis encephalitis transmission, Florida. *Emerg. Infect. Dis.* 10, 802–809, 2004.
- Spinsanti LI et al., Human outbreak of St. Louis encephalitis detected in Argentina, 2005. *J. Clin. Virol.* 42, 27–33, 2008.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Venugopal K, Jiang WR, Gould EA, Immunity to St. Louis encephalitis virus by sequential immunization with recombinant vac-

- cinia and baculovirus derived PrM/E proteins. *Vaccine* 13, 1000–1005, 1995.
- Wotton SH et al., St. Louis encephalitis in early infancy. *Pediatr. Infect. Dis.* 23, 951–954, 2004.
- 1.3.9 Rocio-Enzephalitis**
- Aviles G et al., Secondary serologic responses to Dengue epidemic in 1998 in Salta, Argentina, where other flavivirus co-circulate, *Medicina (B Aires)*. 61, 129–136. Spanish, 2001.
- Coimbra TL et al., Iguape: a newly recognized flavivirus from Sao Paulo State, Brazil. *Intervirol* 36, 144–152, 1993.
- Figueiredo LT et al., Identification of Brazilian flaviviruses by a simplified reverse transcription-polymerase chain reaction method using flavivirus universal primers. *Am. J. Trop. Med. Hyg.* 59, 357–362, 1998.
- Figueiredo LT, The Brazilian flaviviruses. *Microbes Infect.* 2, 1643–1649, 2000.
- Luby JP, Rocio Encephalitis Virus. In: Porterfield JS (ed.), *Exotic viral diseases*. 192–194, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Medeiros DB et al., Complete genome characterization of Rocio virus (flavivirus, flaviviridae), a Brazilian flavivirus isolated from a fatal case of encephalitis during an epidemic in Sao Paulo state. *J. Gen. Virol.* 88, 2237–2246, 2007.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- 1.3.10 West-Nil-Fieber**
- Asnis DS et al., The West Nile virus encephalitis outbreak in the United States (1999–2000): from Flushing, New York, to beyond its borders. *Ann. N. Y. Acad. Sci.* 951, 161–171, 2001.
- CDC, Intrauterine West Nile virus infection – New York, 2002. *Morb. Mort. Wkly. Rep.* 51, 1135–1136, 2002.
- Baqar S et al., Vertical transmission of West Nile virus by culex and aedes species mosquitoes. *Am. J. Trop. Med. Hyg.* 48, 757–762, 1993.
- Biedenbender R et al., Phase II, randomized, double-blind, placebo-controlled, multicenter study to investigate the immunogenicity and safety of a West Nile virus vaccine in healthy adults. *J. Infect. Dis.* 203, 75–84, 2011.
- Biggerstaff BJ, Petersen LR, Estimated risk of West Nile transmission through blood transfusion during an epidemic in Queens, New York City. *Transfusion* 42, 1019–1026, 2002.
- Bin H et al., West Nile fever in Israel 1999–2000: from geese to humans. *Ann. N. Y. Acad. Sci.* 951, 127–142, 2001.
- Campbell GL, Ceianu CS, Savage HM, Epidemic West Nile encephalitis in Romania: waiting for history to repeat itself. *Ann. N. Y. Acad. Sci.* 951, 94–101, 2001.
- Castillo-Olivares J, Wood J, West Nile virus infection of horses. *Vet. Res.* 35, 467–483, 2004.
- CDC, Laboratory-acquired West Nile virus infections – United States, 2002. *Morb. Mort. Wkly. Rep.* 51, 1133–1135, 2002.
- CDC, West Nile transmission via organ transplantation and blood transfusion – Louisiana, 2008. *Morb. Mort. Wkly. Rep.* 58, 1263–1267, 2009.
- CDC, West Nile virus activity – United States, 2009. *Morb. Mort. Wkly. Rep.* 59, 769–772, 2010.
- Chappell KJ et al., West Nile NS2B/NS3 protease as an antiviral target. *Curr. Med. Chem.* 15, 2771–2784, 2008.
- Cook RL et al., Demographic and clinical factors associated with persistent symptoms after West Nile virus infection. *Am. J. Trop. Med. Hyg.* 83, 1133–1136, 2010.
- Couissinier-Paris P, West Nile in Europe and Africa: still minor pathogen, or potential threat to public health? *Bull. Soc. Pathol. Exot.* 99, 348–354, 2006.
- Dauphin G, Zientara S, West Nile virus: recent trends in diagnosis and vaccine development. *Vaccine* 25, 5563–5576, 2007.
- Davis LE et al., West Nile virus neuroinvasive disease. *Ann. Neurol.* 60, 286–300, 2006.
- Eiden M et al., Two new real-time quantitative reverse transcription polymerase chain reaction assays with unique target sites for the specific and sensitive detection of li-

- neages 1 and 2 West Nile virus strains. *J. Vet. Diagn. Invest.* 22, 748–753, 2010.
- Granwehr BP et al., West Nile virus: where are we now? *Lancet Infect. Dis.* 4, 547–556, 2004.
- Gray RR et al., Evolutionary characterization of the West Nile virus complete genome. *Mol. Phylogenet.* 56, 195–200, 2010.
- Gubler DJ, The continuing spread of West Nile virus in the western hemisphere. *Clin. Infect. Dis.* 45, 1039–1046, 2007.
- Guy B, Guirakhoo F, Barban V et al., Preclinical and clinical development of YFV 17D-based chimeric vaccines against dengue, West Nile and Japanese encephalitis viruses. *Vaccine* 28, 632–649, 2010.
- Han LL et al., Risk factors for West Nile virus infection and meningoencephalitis, Romania, 1996. *J. Infect. Dis.* 179, 230–233, 1999.
- Hayes CG, West Nile virus: Uganda, 1937, to New York, 1999. *Ann. N. Y. Acad. Sci.* 951, 25–37, 2001.
- Hayes EB, Looking the other way: preventing vector-borne disease among travelers to the United States. *Travel Med. Infect. Dis.* 8, 277–284, 2010.
- Hunsperger EA et al., West Nile virus from blood donors, vertebrates, and mosquitoes, Puerto Rico, 2007. *Emerg. Infect. Dis.* 15, 1298–1300, 2009.
- Johnson N et al., Assessment of a novel real-time pan-flavivirus RT-polymerase chain reaction. *Vector Borne Zoo. Dis.* 10, 665–671, 2010.
- Jupp PG, The ecology of West Nile virus in South Africa and the occurrence of outbreaks in humans. *Ann. N. Y. Acad. Sci.* 951, 143–152, 2001.
- Kauffman EB et al., Detection of West Nile virus. *Meth. Mol. Biol.* 665, 383–413, 2011.
- Komar N, Clark GG, West Nile virus activity in Latin America and the Caribbean. *Rev. Panam. Salud Pub.* 19, 112–117, 2006.
- Kramer LD, Li J, Shi PY, West Nile virus. *Lancet Neurol.* 6, 171–181, 2007.
- Loeb M et al., Prognosis after West Nile virus infection. *Ann. Intern. Med.* 149, 232–241, 2008.
- Mehlhop E, Diamond MS, The molecular basis of antibody protection against West Nile virus. *Curr. Top. Microbiol. Immunol.* 317, 125–133, 2008.
- Monaco F et al., Re-emergence of West Nile virus in Italy. *Zoo. Pub. Health* 57, 476–486, 2010.
- Monge Maillo B et al., Importation of West Nile virus infection from Nicaragua to Spain. *Emerg. Infect. Dis.* 14, 1171–1173, 2008.
- Nash D et al., The outbreak of West Nile virus infection in the New York City area in 1999. *N. Engl. J. Med.* 344, 1807–1814, 2001.
- Papin JF et al., Genome-wide real-time PCR for West Nile virus reduces the false-negative rate and facilitates new strain discovery. *J. Virol. Meth.* 169, 103–111, 2010.
- Petersen LR, Hayes EB, West Nile virus in the Americas. *Med. Clin. North Am.* 92, 1307–1322, 2008.
- Planitzer CB et al., West Nile virus infection in plasma of blood and plasma donors, United States. *Emerg. Infect. Dis.* 15, 1668–1670, 2009.
- Platonov AE et al., Outbreak of West Nile virus infection, Volgograd Region, Russia, 1999. *Emerg. Infect. Dis.* 7, 128–132, 2001.
- Posadas-Herrera G et al., Development and evaluation of a formalin-inactivated West Nile virus vaccine (WN-VAX) for a human vaccine candidate. *Vaccine* 28, 7939–7946, 2010.
- Rossi SL, Ross TM, Evans JD, West Nile virus. *Clin. Lab. Med.* 30, 47–65, 2010.
- Sejvar JJ, Marfin AA, Manifestations of West Nile neuroinvasive disease. *Rev. Med. Virol.* 16, 209–224, 2006.
- Shi PY, Wong SJ, Serologic diagnosis of West Nile virus infection. *Expert Rev. Mol. Diagn.* 3, 733–741, 2003.
- Smith HL et al., Development of antigen-specific memory CD8+ T cells following live-attenuated chimeric West Nile virus vaccination. *J. Infect. Dis.* 203, 513–522, 2011.
- Tardei G et al., Evaluation of immunoglobulin M (IgM) and IgG enzyme immunoassays in serologic diagnosis of West Nile virus infection. *J. Clin. Microbiol.* 38, 2232–2239, 2000.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.

- Trejejo RT, Eidson M, Zoonosis update: West Nile virus. *J. Am. Vet. Med. Ass.* 232, 1302–1309, 2008.
- Tsai TF et al., West Nile encephalitis epidemic in southeastern Romania. *Lancet* 352, 767–771, 1998.
- Unlu I et al., Evidence of vertical transmission of West Nile virus in field-collected mosquitoes. *J. Vector Ecol.* 35, 95–99, 2010.
- Venter M et al., Transmission of West Nile virus during horse autopsy. *Emerg. Infect. Dis.* 16, 573–575, 2010.
- Zou S et al., West Nile characteristics among viremic persons identified through blood donor screening. *J. Infect. Dis.* 202, 1354–1361, 2010.
- 1.3.11 Usutu-Virus**
- Cavrini F et al., Usutu virus infection in a patient who underwent orthotopic liver transplantation, Italy, August–September 2009. *Euro Surveill* 14: pii=19448.
- Weissenböck H et al., Emergence of Usutu virus, an African mosquito-borne Flavivirus of the Japanese encephalitis group, Central Europe. *Emerg Infect Dis* 2002; 8: 652–656.
- 1.3.12 Wesselsbron Disease**
- Baba SS et al., Wesselsbron virus antibody in domestic animals in Nigeria: retrospective and prospective studies. *New Microbiol.* 18, 151–162. 1995.
- Baba SS, Fagbami AH, Ojeh CK, Preliminary studies on the use of solid-phase immunosorbent techniques for the rapid detection of Wesselsbron virus (WSLV) IgM by haemagglutination-inhibition. *Comp. Immunol. Microbiol. Infect. Dis.* 22, 71–79, 1999.
- Bollati M et al., Recognition of RNA cap in the Wesselsbron virus NS5 methyltransferase domain: implications for RNA-capping mechanisms in flavivirus. *J. Mol. Biol.* 385, 140–152, 2009.
- Diallo M et al., Mosquito vectors of the 1998–1999 outbreak of Rift Valley fever and other arboviruses (Bagaza, Sanar, Wesselsbron and West Nile) in Mauritania and Senegal. *Med. Vet. Entomol.* 19, 119–126, 2005.
- Guilherme JM et al., Seroprevalence of five arboviruses in Zebu cattle in the Central African Republic. *Trans. R. Soc. Trop. Med. Hyg.* 90, 31–33. 1996.
- Johnson AJ et al., Detection of anti-arboviral immunoglobulin G by using a monoclonal antibody-based capture enzyme-linked immunosorbent assay. *J. Clin. Microbiol.* 38, 1827–1831, 2000.
- Jupp PG, Kemp AI Studies on an outbreak of Wesselsbron virus in the Free State Province, South Africa. *J. Am. Mosq. Control Ass.* 14, 40–45, 1998.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Morvan J et al., Le virus Wesselsbron, un nouvel arbovirus pour Madagascar. *Arch. Inst. Pasteur. Madagascar* 57, 183–192, In Französisch. 1990.
- Mushi EZ, Binta MG, Raborokgwe M, Wesselsbron disease virus associated with abortions in goats in Botswana. *J. Vet. Diagn. Invest.* 10, 191, 1998.
- Oberst RD, Viruses as teratogens. *Vet. Clin. North Am. Food Anim. Pract.* 9, 23–31, 1993.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- 1.3.13 Gelbfieber**
- Arroyo J et al., Molecular basis for attenuation of neurovirulence of a yellow fever virus/Japanese encephalitis virus chimera vaccine (ChimeriVax-JE). *J. Virol.* 75, 934–942, 2001.
- Barnett ED, Yellow fever: epidemiology and prevention. *Clin. Infect. Dis.* 44, 850–856, 2007.
- CDC, Fatal yellow fever in a traveler returning from Venezuela, 1999. *MMWR Morb. Mortal Wkly. Rep.* 49, 303–305, 2000.
- CDC, Fenner, F, Candidate viral diseases for elimination or eradication. *MMWR Morb. Mortal Wkly. Rep.* 48, Suppl., 186–190, 1999.
- Chan RC et al., Hepatitis and death following vaccination with 17D-204 yellow fever vaccine. *Lancet* 358, 121–122, 2001.
- Chang GJ et al., Flavivirus DNA vaccines: current status and potential. *Ann. N. Y. Acad. Sci.* 951: 272–285, 2001.

- Digoutte JP et al., Yellow fever, 67–102. In: Porterfield JS (ed.), *Exotic viral infections*. Chapman and Hall Medical, London New York, 1995.
- Galler R et al., Phenotypic and molecular analyses of yellow fever 17D vaccine viruses associated with serious adverse events in Brazil. *Virology*. 290, 309–319, 2001.
- Gardner CL, Ryman KD, Yellow fever: a re-emerging threat. *Clin. Lab. Med.* 30, 237–260, 2010.
- Gould LH et al., An outbreak of yellow fever with concurrent chikungunya virus transmission in South Kordofan, Sudan, 2005. *Trans. R. Soc. Trop. Med. Hyg.* 102, 1247–1254, 2008.
- Gubler D, The changing epidemiology of yellow fever and dengue, 1900 to 2003: full circle? *Comp. Immunol. Microbiol. Infect. Dis.* 27, 319–330, 2004.
- Hayes EB, Acute viscerotropic disease following vaccination against yellow fever. *Trans. R. Soc. Trop. Med. Hyg.* 101, 967–971, 2007.
- Lutkes P et al., Impfungen und reisemedizinische Empfehlungen für Organtransplantierte. *Dtsch. Med. Wochenschr.* 125, 1011–1016, 2000.
- Marianneau P, Georges-Courbot M, Deubel V, Rarity of adverse effects after 17D yellow fever vaccination. *Lancet* 358, 84–85, 2001.
- Marin M et al., Ceftriaxone Fever and multisystem organ failure associated with 17D yellow fever vaccination: a report of four cases. *Lancet* 358, 98–104, 2001.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Monath TP, Yellow fever: an update. *Lancet Infect. Dis.* 1, 11–20, Review 2001.
- Monath TP et al., Clinical proof of principle for ChimeriVax: recombinant live, attenuated vaccines against flavivirus infections. *Vaccine*. 20, 1004–1018, 2002.
- Monath TP, Treatment of yellow fever. *Antivir. Res.* 78, 116–124, 2008.
- Munoz J et al., Yellow fever-associated viscerotropic disease in Barcelona, Spain. *J. Travel Med.* 15, 202–205, 2008.
- Mutebi, JP, Barrett AD, The epidemiology of yellow fever in Africa: *Microbes Infect.* 4, 1459–1468, 2002.
- Oyelami SA, Olaleye CO, Oyejide O et al., Severe post-vaccination reaction to 17D yellow fever vaccine in Nigeria. *Rev. Roum. Virol.* 45, 25–30, 1994.
- Pond WL et al., Heterotypic serologic responses after yellow fever vaccination; detection of persons with past St. Louis encephalitis or Dengue. *J. Immunol.* 98, 673–682, 1967.
- Querec TD, Pulendran B, Understanding the role of innate immunity in the mechanism of action of the live attenuated yellow fever vaccine 17D. *Adv. Exp. Med. Biol.* 590, 43–53, 2007.
- Receveur MC et al., Yellow fever vaccination of human immunodeficiency virus-infected patients: report of 2 cases. *Clin. Inf. Dis.* 31, E7–8, 2000.
- Schlesinger JJ, Brandriss MW, Antibody-mediated infection of macrophages and macrophage-like cell lines with 17D-yellow fever virus. *J. Med. Virol.* 8, 103–117, 1981.
- Schlesinger JJ, Brandriss MW, Growth of 17D yellow fever virus in a macrophage-like cell line, U937: role of Fc and viral receptors in antibody-mediated infection. *J. Immunol.* 127, 659–665, 1981.
- Schoub BD et al., Encephalitis in a 13-year-old boy following 17D yellow fever vaccine. *J. Infect.* 21, 105–106, 1990.
- Tesh RB et al., Immunization with heterologous flaviviruses protective against fatal West Nile encephalitis. *Emerg. Infect. Dis.* 8, 245–251, 2002.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of Human Viruses by Polymerase Chain Reaction Technology*, chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Van Der Most RG et al., Chimeric yellow fever/dengue virus as a candidate dengue vaccine: quantitation of the Dengue virus-specific CD8 T-cell response. *J. Virol.* 74, 8094–8101, 2000.
- Vasconcelos PFC et al., Serious adverse events associated with yellow fever 17D vaccine in Brazil: a report on two cases. *Lancet* 358, 91–97, 2001.
- WHO, Fever, jaundice, and multiple organ system failure associated with 17D-derived yellow fever vaccination, 1996–2001. *MMWR Morb. Mortal Wkly. Rep.* 50, 643–645, 2001.

1.3.14 Dengue-Fieber

- Agarwal R et al., A clinical study of the patients with Dengue hemorrhagic fever during the epidemic of 1996 at Lucknow, India. *Southeast Asian J. Trop. Med. Public Health.* 30, 735–740, 1999.
- Angibaud G et al., Brain involvement in Dengue fever. *J. Clin. Neurosci.* 8, 63–65, 2001.
- Anonymous, Case definitions. Dengue fever. *Epidemiol. Bull.* 21, 14–15, 2000.
- Anonymous, Dengue/Dengue haemorrhagic fever. *Wkly. Epidemiol. Rec.* 175, 193–196, 2000.
- Burke DS, Monath TE, The Flaviviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1043–1126, Lippincott, Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Carles G et al., Dengue et grossesse. Etude de 38 cas en Guyane française. *J. Gynécol. Obstet. Biol. Réprod. (Paris).* 29, 758–762, 2000.
- Chen LH, Wilson ME, Dengue and Chikungunya infections in travelers. *Curr. Opin. Infect. Dis.* 23, 438–444, 2010.
- Clement J, Colson P, van Ranst M, Dengue versus hantavirus in CNS infections. *Lancet* 355, 2163–2168, 2000.
- Conceicao TM, da Poian AT, Sorgine MH, A real-time PCR procedure for detection of dengue virus serotypes 1, 2, and 3, and their quantitation in clinical and laboratory samples. *J. Virol. Meth.* 163, 1–9, 2010.
- Das S et al., Detection and serotyping of dengue virus in serum samples by multiplex reverse transcriptase PCR-ligase detection reaction assay. *J. Clin. Microbiol.* 46, 3276–3284, 2008.
- Gubler D, The changing epidemiology of yellow fever and dengue, 1900 to 2003: full circle? *Comp. Immunol. Microbiol. Infect. Dis.* 27, 319–330, 2004.
- Guzman MG et al., Epidemiologic studies on Dengue in Santiago de Cuba, 1997. *Am. J. Epidemiol.* 152, 793–799, 2000.
- Guzman MG, Kouri G, SB Halstead, Do escape mutants explain rapid increases in Dengue case-fatality rates within epidemics? *Lancet* 355, 1902–1903, 2000.
- Guzman MG, Kouri G, Dengue and dengue hemorrhagic fever in the Americas: lessons and challenges. *J. Clin. Virol.* 27, 1–13, 2003.
- Halstead SB, Dengue. *Lancet* 370, 1644–1652, 2007.
- Halstead SB et al., Intrinsic antibody-dependent enhancement of microbial infection in macrophages: disease regulation by immune complexes. *Lancet Infect. Dis.* 10, 712–722, 2010.
- Haritoglou C et al., Okuläre Manifestation bei Dengue-Fieber. *Ophthalmologie* 97, 433–436. 2000.
- Huang KJ et al., Manifestation of thrombocytopenia in Dengue-2virus-infected mice. *J. Gen. Virol.* 81, 2177–2182, 2000.
- Innis BI, Dengue and Dengue hemorrhagic fever. In: Porterfield JS (ed.), *Exotic viral infections*. 103–146, Chapman and Hall Medical, London New York, 1995.
- Jain A, Chaturvedi UC, Dengue in infants: an overview. *FEMS Immunol. Med. Microbiol.* 59, 119–130, 2010.
- Jansen CC, Beebe NW, The dengue vector *Aedes aegypti*: what comes next. *Microbes Infect.* 12, 272–279, 2010.
- Jelinek T, Dengue fever in international travelers. *Clin. Infect. Dis.* 31, 144–147, 2000.
- King AD et al., B cells are the principal circulating mononuclear cells infected by Dengue virus. *Southeast Asian J. Trop. Med. Public Health.* 30, 718–7128, 1999.
- Kyle JL, Harris E, Global spread and persistence of dengue. *Annu. Rev. Microbiol.* 62, 71–92, 2008.
- Kuno G, Emergence of the severe syndrome and mortality associated with dengue and dengue-like illness: historical records (1890 to 1950) and their compatibility with current hypothesis on the shift of disease manifestations. *Clin. Microbiol. Rev.* 22, 186–201, 2009.
- Markoff LJ, Falgout BN, The family Flaviviridae and its diseases. In: Porterfield JS (ed.), *Exotic viral diseases*, 47–66. Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Martina BE, Koraka P, Osterhaus AD, Dengue virus pathogenesis: an integrated view. *Clin. Microbiol. Rev.* 22, 564–581, 2009.
- McGready R, Paw E, Nosten F, Menorrhagia caused by Dengue fever. *Aust. N. Z. J. Obstet. Gynaecol.* 40, 354–355, 2000.
- Miller N, Recent progress in dengue vaccine research and development. *Curr. Opin. Mol. Ther.* 12, 31–38, 2010.
- Monath T, Heinz FX, Flaviviruses. In: Knipe, DM, Howley PM, Griffin DE (eds.), *Fields*

- Virology, 961–1034, Lippincott, Williams & Wilkins, Philadelphia. 4th ed. 2001.
- Monroy V, Ruiz BH, Participation of the Dengue virus in the fibrinolytic process. *Virus Genes*. 21, 197–208, 2000.
- NN, Case definitions. Dengue fever. *Epidemiol. Bull.* 21, 14–15, 2000.
- NN, Dengue/Dengue haemorrhagic fever. *Wkly. Epidemiol. Rec.* 175, 193–196, 2000.
- Noble CG, et al., Strategies for development of dengue virus inhibitors. *Antivir Res.* 85, 450–462, 2010.
- Pouliot SH et al., Maternal dengue and pregnancy outcomes: a systematic review. *Obstet Gynecol. Surv.* 65, 107–118, 2010.
- Rawlinson SM et al., Dengue virus RNA polymerase NS5: a potential therapeutic target? *Curr. Drug Targets* 7, 1623–1638, 2006.
- Rice CM, Flaviviridae 2001. The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 931–960, Lippincott, Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Rodenhuis-Zybert IA, Wilschut J, Smit JM, Dengue virus life cycle: viral and host factors modulating infectivity. *Cell. Mol. Life Sci.* 67, 2773–2786, 2010.
- Ross TM, Dengue virus. *Clin. Lab. Med.* 30, 149–160, 2010.
- Schlesinger JJ, Brandriss MW, Growth of 17D yellow fever virus in a macrophage-like cell line, U937: role of Fc and viral receptors in antibody-mediated infection. *J. Immunol.* 127, 659–665, 1982.
- Schlesinger JJ, Brandriss MW, Antibody-mediated infection of macrophages and macrophage like cell lines with 17D-yellow fever virus. *J. Med. Virol.* 8, 103–117, 1981.
- Schwartz E et al., Changing epidemiology of Dengue fever in travelers to Thailand. *Eur. J. Clin. Microbiol. Infect. Dis.* 19, 784–786, 2000.
- Schwartz E et al., Evaluation of ELISA-based sero-diagnosis of Dengue fever in travelers. *J. Clin. Virol.* 19, 169–173, 2000.
- Seed CR et al., The risk of dengue transmission by blood during a 2004 outbreak in Cairns, Australia. *Transfusion* 49, 1482–1487, 2009.
- Soemanto BE, Hasebe F, Igarashi A, Infection of Dengue 2 virus strains isolated from patients exhibiting different disease severities to human peripheral blood leukocytes and production of cytokines in the infected culture supernatant. *Southeast Asian J. Trop. Med. Public Health.* 30, 729–734, 1999.
- Stevens AJ et al., The medicinal chemistry of dengue fever. *J. Med. Chem.* 52, 7911–7926, 2009.
- Teles FR, Prazeres DM, Lima-Filho JL, Trends in dengue diagnosis. *Rev. Med. Virol.* 15, 287–302, 2005.
- Swaminathan S, Batra G, Khanna N, Dengue vaccines: state of the art. *Expert Opin. Ther. Pat.* 20, 819–835, 2010.
- Ter Meulen J et al., Isolation and partial characterization of Dengue virus type 2 and 4 strains from Dengue fever and Dengue haemorrhagic fever patients from Mindanao, Republic of the Philippines. *Trop. Med. Int. Health.* 5, 325–329, 2000.
- Torres JR, Liprandi F, Goncalvez AP, Acute parotitis due to Dengue virus. *Clin. Infect. Dis.* 31, E28–29, 2000.
- Trent DW, Chang GJ, Detection and identification of flaviviruses by reverse transcriptase polymerase chain reaction. In: Becker Y, Darai G (eds.), *Diagnosis of human viruses by polymerase chain reaction technology*. chapter 27, 355–369, Springer, Berlin, Heidelberg, New York, 1992.
- Trung DT, Wills B, Systemic vascular leakage associated with dengue infections – the clinical perspective. *Curr. Top. Microbiol. Immunol.* 338, 57–66, 2010.
- Urcuqui-Inchima S et al., Recent developments in understanding dengue virus replication. *Adv. Virus Res.* 77, 1–39, 2010.
- Van Der Most RG et al., Chimeric yellow fever/Dengue virus as a candidate dengue vaccine: quantitation of the dengue virus-specific CD8 T-cell response. *J. Virol.* 74, 8094–8101, 2000.
- Vasilakis N, Weaver SC, The history and evolution of the human dengue emergence. *Adv. Virus Res.* 72, 1–76, 2008.
- Whitehead SS et al., Prospects for a dengue virus vaccine. *Nat. Rev. Microbiol.* 5, 518–528, 2007.
- WHO, Dengue: Guidelines for diagnosis, treatment, prevention and control. New edn. Geneva: World Health Organisation, 2009.
- Wichmann O, Jelinek T, Dengue in travelers: a review. *J. Travel Med.* 11, 161–170, 2004.

Wu JY et al., Dengue fever in mainland China. *Am. J. Trop. Med. Hyg. Am. J. Trop. Med. Hyg.* 83, 664–671, 2010.

1.4 Bunyaviren

1.4.1 Einführung

Aleksandrowicz P et al., Viral haemorrhagic fever and vascular alterations. *Haemostasiol* 28, 77–84, 2008.

Blair CD, Adelman ZN, Olson KE, Molecular strategies for interrupting arthropodborne virus transmission by mosquitoes. *Clin. Microbiol. Rev.* 13, 651–661, 2000.

Bouloy M, Flick R, Reverse genetics technology for Rift Valley fever virus: current and future applications for the development of therapeutics and vaccines. *Antivir. Res.* 84, 101–118, 2009.

Calisher CH, Nathanson N, Bunyavirus infections. In: Porterfield JS (ed.), *Exotic viral infections*. 247–260, Chapman and Hall Medical, London, New York, Tokyo, 1995.

Elliott RM, Bunyaviruses and climate change. *Clin. Microbiol. Infect.* 15, 510–517, 2009.

Johnson AJ et al., Detection of anti-arboviral immunoglobulin G by using a monoclonal antibody-based capture enzyme-linked immunosorbent assay. *J. Clin. Microbiol.* 38, 1827–1831, 2000.

Lambert AJ, Lanciotti S, Molecular characterization of medically important viruses of the genus orthobunyavirus. *J. Gen. Virol.* 89, 2580–2585, 2008.

Lozach PY et al., *Cell Host Microbe* 25, 488–499, 2010.

Martin DA, Standardization of immunoglobulin μ -capture enzyme linked immunosorbent assays for routine diagnosis of arboviral infections. *J. Clin. Microbiol.* 38, 1823–1826, 2001.

Moreli ML, Aquino VH, Figueiredo LTM, Identification of Simbu, California and Bunyamwera serogroup bunyaviruses by nested RT-PCR. *Trans. R. Soc. Med. Hyg.* 95, 108–113, 2001.

Morikawa S, Saijo M, Kurane I, Recent progress in molecular biology of Crimean-Congo hemorrhagic fever. *Comp. Immunol. Microbiol. Infect. Dis.* 30, 375–389, 2007.

Nichol ST, Bunyaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 931–960, Lippincott, Williams & Wilkins, Philadelphia. 4th ed., 2001.

Schmaljohn CS, Hooper JW, Bunyaviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1581–1602, Lippincott, Williams and Wilkins, Philadelphia, 4th ed., 2001.

Tsai TF, Chandler LJ, Arboviruses. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1553–1569, 8th ed. ASM Press, Washington, 2003.

1.4.2 La Crosse-Enzephalitis (Kalifornische Enzephalitis)

Balkhy HH, Schreiber JR, Severe La Crosse encephalitis with significant neurologic sequelae. *Pediatr. Infect. Dis. J.* 19, 77–80, 2000.

Beatty BJ, Rayms-Keller A, Borucki MK, Blair CD, La Crosse encephalitis virus and mosquitoes: a remarkable relationship. *ASM News* 66, 349–357, 2000.

Boyce TG et al., Fever and encephalopathy in two school age boys. *Pediatr. Infect. Dis. J.* 17, 939–940, 1998.

Calisher CH, Nathanson n, Bunyavirus infections. In: Porterfield JS (ed.), *Exotic viral infections*, 247–260, Chapman and Hall Medical, London, New York, Tokyo, 1995.

CDC, Possible congenital infection with La Crosse encephalitis virus, West Virginia, 2006–2007. *Morb. Mort. Wkly. rep.* 58, 4–7, 2009.

Chandler LJ et al., Characterization of La Crosse virus RNA in autopsied central nervous system tissue. *J. Clin. Microb.* 36, 332–336, 1998.

Haddow AD, Odoi A, The incidence risk, clustering, and clinical presentation of La Crosse virus infections in the eastern United States, 2003–2007. *PLoS One* 4, e1145, 2009.

Jones TF et al., Newly recognized focus of La Crosse encephalitis in Tennessee. *Clin. Infect. Dis.* 28, 93–97, 1999.

Jones TF et al., Serological survey and active surveillance for La Crosse virus infections among children in Tennessee. *Clin. Infect. Dis.* 31, 1284–7, Nov 2000.

Joy JE, Hildreth-Whitehair A, Larval habitat characterization for *Aedes triseriatus* (Say), the mosquito vector of La Crosse encephalitis in West Virginia. *Wilderness Environ Med.* 11, 79–83, 2000.

Lambert AJ et al., Nucleic acid amplification assays for the detection of La Crosse virus

- RNA. *J. Clin. Microbiol.* 43, 1885–1889, 2005.
- Lambert AJ et al., La Crosse virus in *Aedes albopictus* mosquitoes, Texas, USA, 2009. *Emerg. Infect. Dis.* 16, 856–858, 2010.
- Moreli ML, Aquino VH, Figueiredo LT, Identification of Simbu, California and Bunyamwera serogroup bunyaviruses by nested RT-PCR. *Trans. R. Soc. Trop. Med. Hyg.* 95, 108–113, 2001.
- Nichol ST, Bunyaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1603–1634, Lippincott Williams and Wilkins, Philadelphia. 4th ed., 2001.
- Schmaljohn CS, Hooper JW, Bunyaviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1581–1602, Lippincott Williams and Wilkins, Philadelphia. 4th ed., 2001.
- Tatum LM et al., Canine LaCrosse viral meningoencephalomyelitis with possible public health implications. *J. Vet. Diagn. Invest.* 11, 184–188, 1999.
- 1.4.3 Oropouche-Fieber**
- Baisley KJ et al., Wilson: Epidemiology of endemic Oropouche virus transmission in upper Amazonian Peru. *Am. J. Trop. Med. Hyg.* 59, 710–716, 1998.
- Calisher CH, Nathanson N, Bunyavirus infections. In: Porterfield JS (ed.), *Exotic viral infections*. 247–260, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Livonesi MC et al., In vitro and in vivo studies of ribavirin action on Brazilian orthobunyavirus. *Am. J. Trop. Med. Hyg.* 75, 1011–1016, 2006.
- Moreli ML et al., Diagnosis of Oropouche virus infection by RT-nested-PCR. *J. Med. Virol.* 66, 139–142, 2002.
- Moreli ML, Aquino VH, Figueiredo LT, Identification of Simbu, California and Bunyamwera serogroup bunyaviruses by nested RT-PCR. *Trans. R. Soc. Trop. Med. Hyg.* 95, 108–113, 2001.
- Nichol ST, Bunyaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*. 1603–1634, Lippincott Williams and Wilkins, Philadelphia. 4th ed., 2001.
- Saeed MF et al., Jatobal virus is a reassortant containing the small RNA of Oropouche virus. *Virus Res.* 77, 25–30, 2001.
- Saeed MF et al., Diagnosis of Oropouche virus infection using a recombinant nucleocapsid protein-based enzyme immunoassay. *J. Clin. Microbiol.* 39, 2445–2452, 2001.
- Schmaljohn CS, Hooper JW, Bunyaviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields virology*, 1581–1602, Lippincott Williams and Wilkins, Philadelphia. 4th ed, 2001.
- Tesh RB, The emerging epidemiology of Venezuelan fever and Oropouche fever in tropical South America. *Ann. N. Y. Acad. Sci.* 740, 129–137, 1994.
- Vasconcelos HB et al., Oropouche fever epidemic in Northern Brazil: epidemiology and molecular characterization of isolates. *J. Clin. Virol.* 44, 129–133, 2009.
- Walsh JF, Molyneux DH, Birley MH, Deforestation: effects on vector-borne disease. *Parasitology* 106 Suppl: S55–S75, 1993.
- Watts DM et al., Venezuelan equine encephalitis and Oropouche virus infections among Peruvian army troops in the Amazon region of Peru. *Am. J. Trop. Med. Hyg.* 56, 661–667, 1997.
- 1.4.4 Krim-Kongo-Hämorrhagisches Fieber**
- Burt FJ, Swanepoel R, Braack LE, Enzyme-linked immunosorbent assays for the detection of antibody to Crimean-Congo haemorrhagic fever virus in the sera of livestock and wild vertebrates. *Epidemiol. Infect.* 111, 547–557, 1993.
- Deyde JL et al., Crimean-Congo haemorrhagic fever virus genomics and global diversity. *J. Virol.* 80, 8834–8842, 2006.
- Duh D et al., Viral load as a predictor for Crimean-Congo haemorrhagic fever outcome. *Emerg. Infect. Dis.* 13, 1769–1772, 2007.
- Ergonul O, Treatment of Crimean-Congo haemorrhagic fever. *Antivir. Res.* 78, 125–131, 2008.
- Fisher-Hoch SP et al., Crimean-Congo-haemorrhagic fever treated with oral ribavirin. *Lancet* 346, 472–475, 1995.
- Flick R et al., Reverse genetics for Crimean-Congo haemorrhagic fever virus. *J. Virol.* 77, 5997–6006, 2003.
- Flick R, Whitehouse CA, Crimean-Congo haemorrhagic fever. *Curr. Mol. Med.* 5, 753–760, 2005.
- Khan AS et al., An outbreak of Crimean-Congo hemorrhagic fever in the United Arab Emirates, 1994–1995. *Am. J. Trop. Med. Hyg.* 57, 519–525, 1997.

- Leblebicioglu H, Crimean-Congo haemorrhagic fever in Eurasia. *Int. J. Antimicrobiol. Agents* 36 (suppl. 1), S43–S46, 2010.
- Mardani M, Rahnnavardi M, Sharifi-Mood B, Current treatment of Crimean-Congo haemorrhagic fever in children. *Expert Rev. Anti Infect. Ther.* 8, 911–918, 2010.
- Nichol ST, Bunyaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1603–1634, Lippincott Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Ozkaya E et al., Molecular epidemiology of Crimean-Congo haemorrhagic fever virus in Turkey: occurrence of local topotype. *Virus Res.* 149, 64–70, 2010.
- Rodriguez LL et al., Molecular investigation of a multisource outbreak of Crimean-Congo hemorrhagic fever in the United Arab Emirates. *Am. J. Trop. Med. Hyg.* 57, 512–518, 1997.
- Schmaljohn CS, Hooper JW, Bunyaviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1581–1602, Lippincott Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Schwarz TF et al., Polymerase chain reaction for diagnosis and identification of distinct variants of Crimean-Congo hemorrhagic fever virus in the United Arab Emirates. *Am. J. Trop. Med. Hyg.* 55, 190–196, 1996.
- Schwarz TF et al., Crimean-Congo haemorrhagic fever in Oman. *Lancet* 346, 1230, 1995.
- Soares-Weiser K et al., Ribavirin for Crimean-Congo haemorrhagic fever: a systemic review and meta-analysis. *BMC Infect. Dis.* 10, 207, 2010.
- Swanepool R, Nairovirus infections. In: Porterfield JS (ed.), *Exotic viral infections*. 285–295, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Tang Q et al., A patient with Crimean-Congo haemorrhagic fever serologically diagnosed by recombinant nucleoprotein-based antibody detection systems. *Clin. Diagn. Lab. Immunol.* 10, 489–491, 2003.
- Tarantola A et al., Lookback exercise with imported Crimean-Congo haemorrhagic fever, Senegal and France. *Emerg. Infect. Dis.* 12, 1424–1426, 2006.
- Tsai TF, Chandler LJ, Arboviruses. In: Murray PR et al., (eds.), *Manual of Clinical Microbiology*, 1553–1569, 8th ed. ASM Press, Washington, 2003.
- Williams RJ et al., Crimean-Congo haemorrhagic fever: a seroepidemiological and tick survey in the Sultanate of Oman. *Trop. Med. Int. Health.* 5, 99–106, 2000.

1.4.5 Rift-Valley-Fieber

- Al-Hazmi A et al., Ocular complications of Rift Valley fever outbreak in Saudi Arabia. *Ophthalmology* 112, 313–318, 2005.
- Anyamba A et al., Prediction of a Rift Valley fever outbreak. *Proc. Natl. Acad. Sci. USA*, 106, 955–999, 2009.
- Bouloy M et al., Genetic evidence for an interferon-antagonistic function of Rift Valley fever virus nonstructural protein NSs. *J. Virol.* 75, 1371–1377, 2001.
- Bouloy M, Flick R, Reverse genetics technology for Rift Valley fever virus: current and future applications for the development of therapeutics and vaccines. *Antivir. Res.* 84, 101–118, 2009.
- Bouloy M, Weber F, Molecular biology of Rift Valley fever virus. *Open Virol. J.* 4, 8–14, 2010.
- CDC, Outbreak of Rift Valley fever – Yemen, August–October 2000. *MMWR Morb. Mortal Wkly. Rep.* 49, 1065–1066, 2000.
- CDC, Outbreak of Rift Valley fever – Saudi Arabia, August–October, 2000. *JAMA.* 284, 2310–2311, 2000.
- Chen JP, Cosgriff TM, Hemorrhagic fever virus-induced changes in hemostasis and vascular biology. *Blood Coagul. Fibrinolysis* 11, 461–483, 2000.
- Fisher-Hoch SP et al., Crimean-Congo-haemorrhagic fever treated with oral ribavirin. *Lancet* 346, 472–475, 1995.
- Garcia S et al., Quantitative real-time PCR detection of Rift Valley fever virus and its application to evaluation of antiviral compounds. *J. Clin. Microbiol.* 39, 4456–4461, 2001.
- Gerdes GH, Rift Valley fever. *Rev. Sci. Tech.* 23, 613–623, 2004.
- Jost CC et al., Epidemiological assessment of the Rift Valley fever outbreak in Kenya and Tanzania in 2006 and 2007. *Am. J. Trop. Med. Hyg.* 83 (suppl. 2), 65–72, 2010.
- Kahlon SS et al., Severe Rift Valley fever may present with a characteristic clinical syndrome. *Am. J. Trop. Med. Hyg.* 82, 371–375, 2010.
- LaBeud AD, Kazura JW, King CH, Advances in Rift Valley fever research: insights for

- disease prevention. *Curr. Opin. Infect. Dis.* 23, 403–408, 2010.
- Nichol ST, Bunyaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1603–1634, Lippincott Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Rweyemamu M et al., Emerging diseases of Africa and the Middle East. *Ann. N. Y. Acad. Sci.* 916, 61–70, 2000.
- Sall AA et al., Singletube and nested reverse transcriptase-polymerase chain reaction for detection of Rift Valley fever virus in human and animal sera. *J. Virol. Methods* 91, 85–92, 2001.
- Schmaljohn CS, Hooper JW, Bunyaviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1581–1602, Lippincott Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Swanepool R, Nairovirus infections. In: Porterfield JS (ed.), *Exotic Viral Infections*. 285–295, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- 1.4.6 Sandmückenfieber**
- Batieha A et al., Seroprevalence of West Nile, Rift Valley, and sandfly arboviruses in Hashimiah, Jordan. *Emerg. Infect. Dis.* 6, 358–362, 2000.
- Brett-Major DM, Claborn DM, Sandfly fever: what have we learned in one hundred years? *Mil. Med.* 174, 426–431, 2009.
- Charrel R et al., Emergence of Toscana virus in Europe. *Emerg. Infect. Dis.* 11, 1701–1707, 2005.
- Ciuffolini MG et al., Detection of Toscana virus-specific immunoglobulins G and M by an enzyme-linked immunosorbent assay based on recombinant viral nucleoprotein. *J. Clin. Microbiol.* 37, 2010–2012, 1999.
- Collao X et al., Genetic diversity of Toscana virus. *Emerg. Infect. Dis.* 15, 574–577, 2009.
- Cohen D et al., Prevalence of antibodies to West Nile fever, sandfly fever Sicilian, and sandfly fever Naples viruses in healthy adults in Israel. *Public Health Rev.* 27, 217–230, 1999.
- Dionisio D et al., Encephalitis without meningitis due to sandfly fever virus serotype Toscana. *Clin. Infect. Dis.* 32, 1241–1243, 2001.
- Dionisio D et al., Epidemiological, clinical and laboratory aspects of sandfly fever. *Curr. Opin. Infect. Dis.* 16, 383–388, 2003.
- Doerr R, Franz K, Taussig S, *Das Pappataci-Fieber*. Verlag Franz Deuticke, 1909.
- Nicolleti L et al., Central nervous system involvement by phlebovirus Toscana of residents in natural foci in central Italy. (1977–1988). *Am. J. Trop. Hyg.* 45, 429–435, 1991.
- Pauli C et al., Neurologische Symptome nach Infektion mit Sandfliegenfieber-Virus. *DMW* 120, 1468–1471, 1995.
- Perez-Ruiz M et al., Reverse transcription, real-time PCR assay for detection of Toscana virus. *J. Clin. Virol.* 39, 276–281, 2007.
- RKI, Sandfliegenfieber. *Epidemiol. Bull.* 32/96, 222–223, 1996.
- Sabin AB, Recent advances in our knowledge of dengue and sandfly fever. *Am. J. Trop. Hyg.* 4, 198–205, 1955.
- Schwarz TF, Jäger GR, Virusinfektionen durch Sandfliegenstich: Pappataci-Fieber. *Die Gelben Hefte* 34, 67–73, 1994.
- Schwarz TF, Gilch S, Schätzl HM, A recombinant Toscana virus nucleoprotein in a diagnostic immunoblot test system. *Res. Virol.* 149, 413–418, 1998.
- Soldateschi D et al., Laboratory diagnosis of Toscana virus infection by enzyme immunoassay with recombinant viral nucleoprotein. *J. Clin. Microbiol.* 37, 649–652, 1999.
- Valassini M et al., Detection of neurotropic viruses circulating in Tuscany: the incisive role of Toscana virus. *J. Med. Virol.* 60(1), 86–90, 2000.
- Valassina M, Cusi MG, Valensin PE, A Mediterranean arbovirus: the Toscana virus. *J. Neurovirol.* 9, 577–583, 2003.
- Weidmann M et al., Rapid detection of important human pathogenic phleboviruses. *J. Clin. Virol.* 41, 138–142, 2008.
- 1.4.7 Infektionen durch Hantaviren: HFRS und HPS**
- Avsic-Zupanc T et al., Genetic and antigenic properties of Dobrava virus: a unique member of the Hantavirus genus, family Bunyaviridae. *J. Gen. Virol.* 76, 2801–2808, 1995.
- Bausch DG, Ksiazekn TG, Viral hemorrhagic fevers including hantavirus pulmonary syndrome in the Americas. *Clin. Lab. Med.* 22, 981–1020, 2002.
- Chu YK et al., Serological relationships among viruses in the Hantavirus genus, family

- Bunyaviridae. *Virology*. 198, 196–204. 1994.
- Colby TV et al., Hantavirus pulmonary syndrome is distinguishable from acute interstitial pneumonia. *Arch. Pathol. Lab. Med.* 124, 1463–1466, 2000.
- Drebot MA, Artsob H, Werker D, Hantavirus pulmonary syndrome in Canada, 1989–1999. *Can. Commun. Dis. Rep.* 26, 65–69, 2000.
- Glass GE et al., Using remotely sensed data to identify areas at risk for hantavirus pulmonary syndrome. *Emerg. Infect. Dis.* 6, 238–247, 2000.
- Heyman P et al., Hantavirus infections in Europe: from virus carriers to a major public-health problem. *Expert Rev. Anti Ther.* 7, 205–217, 2009.
- Jones A, Setting a trap for hantavirus. *Nursing*. 30, 20, 2000.
- Jonsson CB, Hopper J, Mertz G, Treatment of hantavirus pulmonary syndrome. *Antivir. Res.* 78, 162–169, 2007.
- Jonsson CB, Figueiredo LT, Vapalathi O, A global perspective on hantavirus ecology, epidemiology, and disease. *Clin. Microbiol. Rev.* 23, 412–441, 2010.
- Klempa B, Hantaviruses and climate change. *Clin. Microbiol. Infect.* 15, 518–523, 2009.
- Klempa B et al., Serological evidence of human hantavirus infections in Guinea, West Africa. *J. Infect. Dis.* 201, 1031–1034, 2010.
- Maes P et al., Hantaviruses: immunology, treatment, and prevention. *Viral Immunol.* 17, 481–497, 2004.
- Makary P et al., Disease burden of Puumala virus infections, 1995–2008. *Epidemiol. Infect.* 138, 1484–1492, 2010.
- Markotic A, Human-to-human transmission of hantaviruses. *Lancet* 350, 596, 1997.
- McCaughey C, Hart CA, Hantaviruses. *J. Med. Microbiol.* 49, 587–599, 2000.
- Nelson R et al., Confirmation of Choclo virus as the cause of hantavirus cardiopulmonary syndrome and high serum antibody prevalence in Panama. *J. med. Virol.* 82, 1586–1593, 2010.
- Nichol ST et al., Genetic identification of hantavirus associated with an outbreak of acute respiratory illness. *Science* 262, 914–917, 1993.
- Nichol S, Bunyaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1603–1634, Lippincott Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Olsson GE, Leirs H, Henttonen H, Hantaviruses and their hosts in Europe: reservoirs here and there, but not everywhere? *Vector Borne Zoo. Dis.* 10, 549–561, 2010.
- Park K, Kim CS, Moon KT, Protective effectiveness of hantavirus vaccine. *Emerg. Infect. Dis.* 10, 2218–2220, 2004.
- Plyusina A et al., Co-circulation of three pathogenic hantaviruses. *J. med. Virol.* 81, 2045–2052, 2009.
- Ramos MM, Hjelle B, Overturf GD, Sin nombre hantavirus disease in a ten-yearold boy and his mother. *Pediatr. Infect. Dis. J.* 19, 248–250, 2000.
- Rhodes LV et al., Hantavirus pulmonary syndrome associated with monongahela virus, Pennsylvania. *Emerg. Infect. Dis.* 6, 616–621, 2000.
- Schilling S et al., Hantavirus disease outbreak in Germany: limitations of routine serological diagnostics and clustering of virus sequences of human and rodent origin. *J. Clin. Microbiol.* 45, 3008–3014, 2007.
- Schmaljohn CS, Hooper JW, Bunyaviridae: The viruses and their Replication. In: Knipe DM, Howley PM, Griffin DE (eds.) *Fields Virology*, 1581–1602, Lippincott Williams & Wilkins, Philadelphia. 4th ed., 2001.
- Schmaljohn CS, Hjelle B, Hantaviruses: a global disease problem. *Emerg. Infect. Dis.* 3, 95–104, 1997.
- Schmaljohn CS, Lee HW, Dalrymple JM, Detection of hantaviruses with RNA probes generated from recombinant DNA. *Arch. Virol.* 95, 291–301. 1987.
- Schmaljohn CS, Dalrymple JM, Analysis of Hantaan virus RNA: evidence for a new genus of bunyaviridae. *Virology* 131, 482–491, 1983.
- Schmaljohn CS, Vaccines for hantaviruses. *Vacc* 27 (suppl. 4), D61–64, 2009.
- Schwarz AC et al., Risk factors for human infection with Puumala virus, southwestern Germany. *Emerg. Infect. Dis.* 15, 1032–1039, 2009.
- Sibold C et al., Dobrava hantavirus causes hemorrhagic fever with renal syndrome in central Europe and is carried by two different Apodemus mice species. *J. Med. Virol.* 63, 158–167, 2001.
- Simpson SQ et al., Hantavirus pulmonary syndrome. *Infect. Dis. Clin. North Am.* 24, 159–173, 2010.

- Stuhlfauth K, Bericht über ein neues schlamme-
fieberähnliches Krankheitsbild bei deut-
schen Truppen in Lappland. *Dtsch. Med.*
Wschr. 69, 439–443, 1943.
- Terajima M et al., High levels of viremia in pa-
tients with the Hantavirus pulmonary
syndrome. *J. Infect. Dis.* 180, 2030–2034,
1999.
- Van Loock F et al., A casecontrol study after a
hantavirus infection outbreak in the
south of Belgium: who is at risk? *Clin. In-*
fect. Dis. 28, 834–839, 1999.
- Verity R et al., Hantavirus pulmonary syn-
drome in Northern Alberta, Canada: clini-
cal and laboratory findings for 19 cases.
Clin. Infect. Dis. 31, 942–946, 2000.
- Vincent MJ et al., Hantavirus pulmonary syn-
drome in Panama: Identification of novel
hantaviruses and their likely reservoirs.
Virology 277, 14–19, 2000.
- Wells RM et al., An unusual hantavirus out-
break in southern Argentina: person-to-
person transmission? *Emerg. Inf. Dis.*, 3,
171–174, 1997.
- Wichmann D et al., Hemorrhagic fever with
renal syndrome: diagnostic problems with
a known disease. *J. Clin. Microbiol.* 39,
3414–3416, 2001.
- WHO, Hantavirus in the Americas: Guidelines
for diagnosis, treatment, prevention and
control. 1999.
- Zhang Y et al., Hantavirus outbreak associated
with laboratory rats in Yunnan, China.
Infect. Genet. Evol. 10, 638–644, 2010.
- and Kadipiro virus: proposal for as-
signment to a new genus (Seadornavirus)
within the family Reoviridae. *J. Gen. Vi-*
rol. 81, 1507–1515, 2000.
- Attoui H et al., Sequence determination and
analysis of the fulllength genome of colo-
rado tick fever virus, the type species of
genus Coltivirus (Family Reoviridae). *Bio-*
chem. Biophys. Res. Commun. 273,
1121–1125, 2000.
- Calisher CH et al., Diagnosis of Colorado tick
fever virus infection by enzyme immuno-
assays for immunoglobulin M and G anti-
bodies. *J. Clin. Microbiol.* 22, 84–88,
1985.
- Emmons RW, Ecology of Colorado tick fever.
Ann. Rev Microbiol. 42, 49–64, 1988.
- Friedman AD, Hematologic manifestations of
viral infections. *Pediatr. Ann.* 25,
555–560, 1996.
- Hughes LE et al., Persistence of Colorado tick
fever virus in red blood cells. *Am. J. Trop.*
Med. Hyg. 23, 530–532, 1974.
- Knudson DI, Monath TP, Orbiviruses. In: Fields
BN et al. (eds.), *Virology*. 2nd edition. Ra-
ven Press, New York, 1405–1436, 1990.
- Johnson AJ, Karabatsos N, Lanciotti RS, De-
tection of Colorado tick fever virus by
using reverse transcriptase PCR and appli-
cation of the technique in laboratory di-
agnosis. *J. Clin. Microbiol.* 35, 1203–1208,
1997.
- Libikova H et al., Orbiviruses of the Kemerovo
complex and neurological diseases. *Med.*
Microbiol. Immunol. (Berl) 166, 255–263,
1978.
- Miller DS et al., Serologic survey for selected
infectious disease agents in swift and kit
foxes from the western United States. *J.*
Wildl. Dis. 36, 798–805, 2000.
- Nuttall PA et al., Enhanced neurovirulence of
tick-borne orbiviruses resulting from gene-
tic modulation. *Virology* 187, 407–412,
1992.
- Roy P, Orbiviruses. In: Knipe DM, Howley PM,
Griffin DE (eds.), *Fields Virology*, 4th ed.,
1835–1870, Lippincott, William & Wil-
kins, Philadelphia, 4th ed, 2001.

1.5 Retroviridae: Colti-, Orbi- und Rotaviren

1.5.2.1 Colorado-Zeckenstichfieber und 1.5.3. Kemerovovirus

- Attoui H, De Micco P, de Lamballerie X, Com-
plete nucleotide sequence of Colorado
tick fever virus segments M6, S1 and S2. *J.*
Gen. Virol. 78, 2895–2899, 1997.
- Attoui H et al., Serologic and molecular diag-
nosis of Colorado tick fever viral infec-
tions. *Am. J. Trop. Med. Hyg.* 59, 763–768,
1998.
- Attoui H et al., Serologic and molecular diag-
nosis of Colorado tick fever viral infec-
tions. *Am. J. Trop. Med. Hyg.* 59, 763–768,
1998.
- Attoui et al., Complete sequence determina-
tion and genetic analysis of Banna virus
- Angel J, Franco MA, Greenberg HB, Rotavirus
vaccines: recent developments and future
considerations. *Nat. Rev.* 2007, 5, 529–539.
- Awachat PS, Kelkar SD, Unexpected detection
of simian SA11 in human reassortant

- strains of rotavirus G3P[8] genotype from diarrhea epidemic among tribal children in Western India. *J. Med. Virol.* 2005, 77: 128–135.
- Blutt SE, et al., Rotavirus antigenemia and viremia: a common event? *Lancet* 2003, 362: 1445–1449.
- Iturriza-Gómara M et al., Reassortment in vivo: driving force for diversity of human rotavirus strains isolated in the United Kingdom between 1995 and 1999. *J. Virol.* 2001, 75: 3696–3705.
- Iturriza-Gómara M, et al., Rotavirus surveillance in Europe, 2005–2008: web-enabled reporting and real-time analysis of genotyping and epidemiological data. *J Infect Dis.* 2009 Suppl 1: 215–21.
- Matthijnsens J et al., Full genome-based classification of rotaviruses reveals common origin between human Wa-like and porcine rotavirus strains and human DS-1-like and bovine rotavirus strains. *J. Virol.* 2008, 82: 3704–3719.
- Matthijnsens J et al., Multiple reassortment and interspecies transmission events contribute to the diversity of feline, canine and felin/canine-like human group A rotavirus strains. *Infect. Genet. Evol.* 2011; 11(6): 1396–406
- Matthijnsens et al., Full analysis of human rotavirus strain B 4106 and lapine rotavirus strain 30/96 provides evidence for interspecies transmission. *J. Virol.* 2006, 80: 3801–3810.
- Midgley SE et al., Suspected zoonotic transmission of rotavirus group A in Danish adults. *Epidemiol. Infect.* 2011; 27: 1–5.
- 1.6 Arenaviren**
- Bowen MD, Peters CJ, Nichol ST, Phylogenetic analysis of the Arenaviridae: patterns of virus evolution and evidence for cospeciation between arenaviruses and their rodent hosts. *Mol. Phylogenet. Evol.* 8, 301–316, 1997.
- Buchmeier M, Bowen MD, Peters CJ, Arenaviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1635–1668, Lippincott, Williams & Wilkins, Philadelphia 4th ed, 2001.
- Charrel RN, de Lamballerie X, Fulhorst CE, The Whitewater Arroyo virus: natural evidence for genetic recombination among Tacaribe de Manzione N, serocomplex viruses (family Arenaviridae). *Virology* 283, 161–166, 2001.
- Jahrling PB, Filoviruses and Arenaviruses. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1125–1136, 7th ed. American Society of Microbiology, Washington, 1999.
- Peters CJ, Arenavirus diseases. In: Porterfield JS (ed.), *Exotic viral infections*. 227–246, Chapman & Hall Medical, London, New York, Tokyo, 1995.
- 1.6.1 Lymphozytäre Choriomeningitis (LCM)**
- Ackermann R, Die Gefährdung des Menschen durch LCM-Virus verseuchte Goldhamster. *Dtsch. Med. Wschr.* 102, 1367–1370, 1977.
- Ackermann R et al., Syrische Goldhamster als Überträger von Lymphozytärer Choriomeningitis. *Dtsch. Med. Wschr.* 97, 1725–1731, 1972.
- Asper M et al., First outbreak of callitrichid hepatitis in Germany: genetic characterization of the causative lymphocytic choriomeningitis virus strains. *Virology* 284, 203–213, 2001.
- Barton LL, Peters CJ, Ksiazek TG, Lymphocytic choriomeningitis virus: an unrecognized teratogenic pathogen. *Emerg. Infect. Dis.* 1, 152–153, 1995.
- Brezin AP et al., Lymphocytic choriomeningitis virus chorioretinitis mimicking ocular toxoplasmosis in two otherwise normal children. *Am. J. Ophthalmol.* 130, 245–247, 2000.
- Campo A et al., Impairment in auditory and visual function follows perinatal viral infection in the rat. *Int. J. Neurosci.* 27, 85–90 1985.
- Gessner A, Lother H, Homologous interference of lymphocytic choriomeningitis virus involves a ribavirin-susceptible block in virus replication. *J. Virol.* 63, 1827–1832, 1989.
- Gossmann J et al., Murine hepatitis caused by lymphocytic choriomeningitis virus. II. Cells involved in pathogenesis. *Lab. Invest.* 72, 559–570, 1995.
- Hirsch E, Sensorineural deafness and labyrinth damage due to lymphocytic choriomeningitis. Report of a case. *Arch. Otolaryngol.* 102, 499–500, 1976.
- Humbertclaude V et al., Les myélites aiguës de l'enfant, à propos d'une cause rare: le vi-

- rus de la chorioméningite lymphocytaire. *Arch. Pediatr.* 8, 282–285, 2001.
- Lehmann-Grube F, Lymphocytic Choriomeningitis. In: Gard S, Hallauer C, Meyer KF (eds.), *Virology Monographs* Bd. 10, Springer, Wien, New York, 1971.
- Lehmann-Grube F, Mechanism of recovery from acute virus infection. VI. Replication of lymphocytic choriomeningitis virus in and clearance from the foot of the mouse. *J. Gen. Virol.* 69, 1883–1891, 1988.
- McCormick JB, King IJ, Webb PA, Lassa fever: Effective therapy with ribavirin. *New Engl. J. Med.* 314, 20–26, 1986.
- Mets MB et al., Lymphocytic choriomeningitis virus: an underdiagnosed cause of congenital chorioretinitis. *Am. J. Ophthalmol.* 130, 209–215, 2000.
- Moskophidis D et al., Mechanism of recovery from acute virus infection. IX. Clearance of lymphocytic choriomeningitis (LCM) virus from the feet of mice undergoing LCM virus-specific delayed-type hypersensitivity reaction. *J. Gen. Virol.* 70, 3305–3316, 1989.
- Müller S et al., Role of an intact splenic micro-architecture in early lymphocytic choriomeningitis virus production. *J. Virol.* 76, 2375–2383, 2002.
- Park JY et al., Development of a reverse transcription-polymerase chain reaction assay for diagnosis of lymphocytic choriomeningitis virus infection and its use in a prospective surveillance study. *J. Med. Virol.* 51, 107–114, 1997.
- Zeller W, Bruns M, Lehmann-Grube F, Lymphocytic choriomeningitis virus. X. Demonstration of nucleoprotein on the surface of infected cells. *Virology* 162, 90–97, 1988.
- 1.6.2 Lassa-Fieber**
- Bajani MD et al., A survey for antibodies to Lassa virus among health workers in Nigeria. *Trans. R. Soc. Trop. Med. Hyg.* 91, 379–381, 1997.
- Bausch DG et al., Diagnosis and clinical virology of Lassa fever as evaluated by enzyme-linked immunosorbent assay, indirect fluorescent-antibody test, and virus isolation. *J. Clin. Microbiol.* 38, 2670–2677, 2000.
- Bowen MD et al., Genetic diversity among Lassa virus strains. *J. Virol.* 74, 6992–7004, 2000.
- Buckley SM, Casals J, Down WD, Isolation and antigenic characterization of Lassa virus. *Nature* 227, 174–176, 1970.
- Casals J, Buckley SM, Lassa fever. *Progr. Med. Virol.* 18, 111–126, 1974.
- Cummins D et al., Lassa fever encephalopathy: clinical and laboratory findings. *J. Trop. Med. Hyg.* 95, 197–201, 1992.
- Cummins D, Bennett D, Machin SJ, Exchange transfusion of a patient with fulminant Lassa fever. *Postgrad. Med. J.* 67, 193–194, 1991.
- Cummins et al., Acute sensorineural deafness in Lassa fever. *JAMA.* 264, 2093–2096, 1990.
- Demby AH et al., Early diagnosis of Lassa fever by reverse transcription-PCR. *J. Clin. Microbiol.* 32, 2898–2903, 1994.
- Djavani M et al., Mucosal immunization with Salmonella typhimurium expressing Lassa virus nucleocapsid protein cross-protects mice from lethal challenge with lymphocytic choriomeningitis virus. *J. Hum. Virol.* 4, 103–108, 2001.
- Fisher-Hoch SP et al., Unexpected adverse reactions during a clinical trial in rural west Africa. *Antiviral Res.* 19, 139–147, 1992.
- Fisher-Hoch SP et al., Effective vaccine for Lassa fever. *J. Virol.* 74, 6777–6783, 2000.
- Fisher-Hoch SP, McCormick JB, Towards a human Lassa fever vaccine. *Rev. Med. Virol.* 11, 331–341, 2001.
- Fisher-Hoch SP et al., Review of cases of nosocomial Lassa fever in Nigeria: the high price of poor medical practice. *BMJ.* 311, 857–859, 1995.
- Fleischer K et al., Lassa-Fieber. *Med. Klin.* 95, 340–345, 2000.
- Gunther S et al., Imported Lassa fever in Germany: molecular characterization of a new Lassa virus strain. *Emerg. Infect. Dis.* 6, 466–476, 2000.
- Gunther S et al., Lassa fever encephalopathy: Lassa virus in cerebrospinal fluid but not in serum. *J. Infect. Dis.* 184, 345–349, 2001.
- Ignatyev G et al., Experimental study on the possibility of treatment of some hemorrhagic fevers. *J. Biotechnol.* 83, 67–76, 2000.
- McCormick JB, King IJ, Webb PA, Lassa fever: Effective therapy with ribavirin. *New Engl. J. Med.* 314, 20–26, 1986.

- Monson MH et al., Pediatric Lassa fever: a review of 33 Liberian cases. *Am. J. Trop. Med. Hyg.* 36, 408–415, 1987.
- Simonsen L et al., Unsafe injections in the developing world and transmission of blood-borne pathogens: a review. *Bull. WHO* 77, 789–800, 1999.
- Ter Meulen J, Lassa fever: immuno-epidemiological approach to the study of an endemic viral haemorrhagic fever. *Med. Trop. (Mars)*. 60, Suppl. 20–23, 2000.
- Trappier SG et al., Evaluation of the polymerase chain reaction for diagnosis of Lassa virus infection. *Am. J. Trop. Med. Hyg.* 49, 214–221, 1993.
- WHO, Lassa fever, Sierra Leone, *Wkly. epid. Rec.* 72, p. 145 and 162, 1999.
- WHO, Lassa fever, imported case, Netherlands. *Wkly. epid. Rec.* 75, p. 17–18 and 265, 2000.
- WHO, Lassa fever, imported case, United Kingdom. *Wkly. epid. Rec.* 75, p. 85 and 189, 2000.
- 1.6.3 Neuwelt Arenaviren (Tacaribe-Komplex)**
- Bushar G, Sagripanti JL, Molecular characteristics of Junin virus. *J. Virol. Methods* 63, 27–35, 1997.
- Calisher CH et al., Tamiami virus, a new member of the Tacaribe group. *Am. J. Trop. Med. Hyg.* 19, 520–526, 1970.
- Fulhorst CF et al., Isolation and characterization of Whitewater Arroyo virus, a novel North American arenavirus. *Virology* 224, 114–120, 1996.
- Garcia JB et al., Genetic diversity of the Junin virus in Argentina: geographic and temporal patterns. *Virology* 272, 127–136, 2000.
- Harrison LH et al., Clinical case definitions for Argentine hemorrhagic fever. *Clin. Infect. Dis.* 28, 1091–1094, 1999.
- Lopez N et al., Homologous and heterologous glycoproteins induce protection against Junin virus challenge in guinea pigs. *J. Gen. Virol.* 81, 1273–1281, 2000.
- Lozano ME et al., A simple nucleic acid amplification assay for the rapid detection of Junin virus in whole blood samples. *Virus Res.* 27, 37–53, 1993.
- Lozano ME et al., Rapid diagnosis of Argentine hemorrhagic fever by reverse transcriptase PCR-based assay. *J. Clin. Microbiol.* 33, 1327–1332, 1995.
- Lozano ME et al., A simple nucleic acid amplification assay for the rapid detection of Junin virus in whole blood samples. *Virus Res.* 27, 37–53, 1993.
- Maiztegui JI et al., Protective efficacy of a live attenuated vaccine against Argentine hemorrhagic fever. *AHF Study Group. J. Infect. Dis.* 177, 277–283, 1998.
- McCormick JB, King IJ, Webb PA, Lassa Fever: Effective therapy with ribavirin. *New Engl. J. Med.* 314, 20–26, 1986.
- Riera LM et al., Evaluation of an enzyme immunosorbent assay for the diagnosis of Argentine haemorrhagic fever. *Acta Virol.* 41, 305–310, 1997.
- Scolaro LA, Damonte EB, Glycoprotein-mediated biological properties of a host range mutant of Junin virus. *Res. Virol.* 148, 323–331, 1997.
- Guanarito Virus und Whitewater Arroyo Virus**
- Calisher CH et al., Transmission of an arenavirus in white-throated woodrats (*Neotoma albigula*), southeastern Colorado, 1995–1999. *Emerg. Infect. Dis.* 7, 397–402, 2001.
- Charrel RN, de Lamballerie X, Fulhorst CF, The Whitewater Arroyo virus: natural evidence for genetic recombination among Tacaribe de Manzione N, serocomplex viruses (family Arenaviridae). *Virology* 283, 161–166, 2001.
- Fulhorst CF et al., Isolation and characterization of pirital virus, a newly discovered South American arenavirus. *Am. J. Trop. Med. Hyg.* 56, 548–553, 1997.
- Fulhorst CF et al., Isolation and characterization of Whitewater Arroyo virus, a novel North American arenavirus. *Virology* 224, 114–120, 1996.
- Fulhorst CF et al., Natural rodent host associations of Guanarito and Pirital viruses (Family Arenaviridae) in Central Venezuela. *Am. J. Trop. Med. Hyg.* 61, 325–330, 1999.
- Fulhorst CF et al., Geographic distribution and genetic diversity of Whitewater Arroyo virus in the southwestern United States. *Emerg. Infect. Dis.* 7, 403–407, 2001.
- Fulhorst CF et al., Experimental infection of the cane mouse *Zygodontomys brevicauda* (family Muridae) with Guanarito virus (Arenaviridae), the etiologic agent of Venezuelan hemorrhagic fever. *J. Infect. Dis.* 180, 966–969, 1999.
- Fulhorst CF et al., Experimental infection of *Neotoma albigula* (Muridae) with White-

- water Arroyo virus (Arenaviridae). *Am. J. Trop. Med. Hyg.* 65, 147–151, 2001.
- Gonzalez JP, Sanchez A, Rico-Hesse R, Molecular phylogeny of Guanarito virus, an emerging arenavirus affecting humans. *Am. J. Trop. Med. Hyg.* 53, 1–6, 1995.
- Salas RA et al., Venezuelan haemorrhagic fever. *Lancet* 338, 1033–1036, 1991.
- Salas RA et al., Venezuelan hemorrhagic fever: clinical and epidemiological studies of 165 cases. *Clin. Infect. Dis.* 26, 308–313, 1998.
- Tesh RB et al., Description of Guanarito virus (Arenaviridae: Arenavirus), the etiologic agent of Venezuelan hemorrhagic fever. *Am. J. Trop. Med. Hyg.* 50, 452–459, 1994.
- Tesh RB et al., Field studies on the epidemiology of Venezuelan hemorrhagic fever: implication of the cotton rat *Sigmodon alstoni* as the probable rodent reservoir. *Am. J. Trop. Med. Hyg.* 49, 227–235, 1993.
- Weaver SC et al., Guanarito virus (Arenaviridae) isolates from endemic and outlying localities in Venezuela: sequence comparisons among and within strains isolated from Venezuelan hemorrhagic fever patients and rodents. *Virology* 266, 189–195, 2000.
- ## 1.7 Filoviren
- Balter M, Emerging diseases. On the trail of Ebola and Marburg viruses. *Science* 290, 923–925, 2000.
- Bertherat E, Talarmin A, Zeller H, République Démocratique du Congo: entre guerre civile et virus Marburg. *Comité International de Coordination Technique et Scientifique de l'épidémie de Durba. Med. Trop. (Mars)* 59, 201–204, 1999.
- Biot M, Tribute to Dr. Katenga Bonzali. *Trop. Med. Int. Health.* 5, 384, 2000.
- Jahrling PB et al., Filoviruses and Arenaviruses. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1570–1582, 8th ed. ASM Press, Washington, DC, 2003.
- Kiley MP et al., Filoviridae: a taxonomic home for Marburg and Ebola viruses? *Intervirology* 18, 24–32, 1982.
- McCormick JB, Fisher-Hoch SP, Filovirus infections. In: Porterfield JS (ed.), *Exotic viral infections*. 319–328, Chapman and Hall Medical, London, New York, Tokyo, 1995.
- Slenczka W, The Marburg Virus Outbreak of 1967 and Subsequent Episodes. In: Klenk HD (ed.), *Marburg and Ebola viruses. Current Topics Microbiol. Immunol.* 235, 49–76, 1999.
- Siegert R et al., Zur Ätiologie einer unbekanntenen, von Affen ausgegangenen menschlichen Infektionskrankheit. *Dtsch. Med. Wschr.* 92, 2341–2343, 1967.
- WHO, Marburg fever, Democratic Republic of the Congo. *Wkly. Epidemiol. Rec.* 74, 145 and 157, 1999.
- WHO, Viral haemorrhagic fever/Marburg, Democratic Republic of the Congo (update). *Wkly. epidemiol Rec.* 75, 109, 2000.
- Zeller H, Les leçons de l'épidémie à virus Marburg à Durba, République Démocratique du Congo (1998–2000). *Med. Trop. (Mars)* 60, 23–26, 2000.
- ### 1.7.1 Marburg-Virus-Krankheit
- Balter M, Emerging diseases. On the trail of Ebola and Marburg viruses. *Science* 290, 923–925, 2000.
- Biot M, Tribute to Dr. Katenga Bonzali. *Trop. Med. Int. Health.* 5, 384, 2000.
- Haenninen HM, Taï forest Ebola project: Untersuchungen von Arthropoden auf das Vorkommen von Filoviren mit der Polymerasekettenreaktion, Inauguraldissertation, Philipps-Universität Marburg, 2002.
- Jahrling PB et al., Filoviruses and Arenaviruses. In: Murray PR, Baron JE, Jorgensen JH et al. (eds.), *Manual of Clinical Microbiology*, 1570–1582, 8th ed. ASM Press, Washington, DC, 2003.
- Kiley MP et al., Filoviridae: a taxonomic home for Marburg and Ebola viruses? *Intervirology* 18, 24–32, 1982.
- Siegert R et al., Zur Ätiologie einer unbekanntenen, von Affen ausgegangenen menschlichen Infektionskrankheit. *Dtsch. Med. Wschr.* 92, 2341–2343, 1967.
- Slenczka W, The Marburg virus outbreak of 1967 and subsequent episodes. In: Klenk HD (ed.), *Marburg and Ebola Viruses. Current Topics in Microbiology and Immunology*. Vol. 235, 49–76, Springer, Berlin, Heidelberg, New York, 1999.
- WHO, Marburg fever, Democratic Republic of the Congo. *Wkly. Epidemiol. Rec.* 74, 145 and 157, 1999.
- WHO, Viral haemorrhagic fever/Marburg, Democratic Republic of the Congo (update). *Wkly. Epidemiol. Rec.* 75, 109, 2000.

1.7.2 Ebola-Virus-Krankheit

- Baxter AG, Symptomless infection with Ebola virus. *Lancet* 355, 2178–2179, 2000.
- Burton DR, Parren PW, Fighting the Ebola virus. *Nature* 408, 527–528, 2000.
- CDC, Outbreak of Ebola hemorrhagic fever Uganda, August 2000–January 2001. *MMWR Morb. Mortal Wkly. Rep.* 50, 73–77, 2001.
- Haenninen HM, Tai forest Ebola Projekt: Untersuchungen von Arthropoden auf das Vorkommen von Filoviren mit der Polymerasekettenreaktion. Inauguraldissertation, Philipps-Universität Marburg, 2001.
- Jahrling PB et al., Filoviruses and Arenaviruses. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1570–1582, 8th ed. ASM Press, Washington, DC, 2003.
- Le Guenno B, Formenty P, Boesch C, Ebola virus outbreaks in the Ivory Coast and Liberia, 1994–1995. In: Klenk HD (ed.), *Marburg and Ebola viruses. Current Topics in Microbiology and Immunology*. Vol. 235, 77–84, Springer, Berlin, Heidelberg, New York, 1999.
- Leroy EM et al., Human asymptomatic Ebola infection and strong inflammatory response. *Lancet* 355, 2210–2215, 2000.
- Okome-Nkoumou M, Kombila M, Un cas de fièvre hémorragique à virus Ebola à Libreville (Gabon) responsable d'un deuxième cas après évacuation en Afrique du Sud. *Med. Trop.* 59, 411, 1999.
- MacDonald R, Ebola virus claims more lives in Uganda. *BMJ* 321, 1037, 2000.
- Peters CJ, Khan AS, Filovirus diseases. In: Klenk HD (ed.), *Marburg and Ebola viruses. Current topics in microbiology and immunology*. Vol. 235, 85–96, Springer, Berlin, Heidelberg, New York, 1999.
- Peters CJ, LeDuc JW, An introduction to Ebola: the virus and the disease. *J. Infect. Dis.* 179, Suppl., 9–16, 1999.
- Pushko P et al., Individual and bivalent vaccines based on alphavirus replicons protect guinea pigs against infection with Lassa and Ebola viruses. *J. Virol.* 75, 11677–11685, 2001.
- Sullivan NJ et al., Development of a preventive vaccine for Ebola virus infection in primates. *Nature* 408, 605–609, 2000.
- Vanderzanden L et al., DNA vaccines expressing either the GP or NP genes of Ebola virus protect mice from lethal challenge. *Virology* 246, 134–144, 1998.

- WHO, Ebola, Uganda (update). *Wkly Epidemiol. Rec.* 75, 369, 2000.

1.8 Rhabdoviren

- De Mattos CA, De Mattos CC, Rupprecht CE, Rhabdoviruses. In: Knipe DM, Howley PM (eds.), *Fields Virology*, 1245–1278, Lippincott, Williams & Wilkins, Philadelphia 4th. Ed., 2001.
- Smith JS, Rabies virus. In: Murray PR et al (eds.), *Manual of Clinical Microbiology*, 1544–1552, 8th ed. Vol 2. ASM Press Washington, DC, 2003.
- Tsai TF, Chandler LJ, Arboviruses. In: Murray PR et al (eds.), *Manual of Clinical Microbiology*, 1553–1569, 8th ed. Vol 2. ASM Press, Washington, DC, 2003.
- Tesh R et al., Isfahan virus, a new vesiculovirus infecting humans, gerbil and sandflies in Iran. *Am. J. Trop. Med. Hyg.* 26, 299–306, 1977.
- #### 1.8.1 Tollwut
- Arai, YT et al., Nucleoprotein gene analysis of fixed and street rabies virus variants using RT-PCR. *Arch. Virol.* 142, 1787–1796, 1997.
- Badrane H et al., Evidence of two Lyssavirus phylogroups with distinct pathogenicity and immunogenicity. *J. Virol.* 75, 3268–3276, 2001.
- Black EM et al., Molecular methods to distinguish between classical rabies and the rabies-related European bat lyssaviruses. *J. Virol. Methods* 87, 123–131, 2000.
- Blanton JD, Rupprecht CE, Travel vaccination for rabies. *Expert Rev. Vacc.* 7, 613–620, 2008.
- Bronnert J et al., Organ transplantation and rabies transmission. *J. Travel. Med.* 14, 177–180, 2007.
- CDC, Human rabies prevention United States 1999 (ACIP). Supplement to *Morbidity and Mortality* Vol. 48, Jan. 1999.
- CDC, Mass vaccination of humans who drank unpasteurized milk from rabid cows. *MMWR* Vol. 48, 228–229, 1999.
- Crepin P et al., Intravitam diagnosis of human rabies by PCR using saliva and cerebrospinal fluid. *J. Clin. Microbiol.* 36, 1117–1121, 1998.
- De Mattos CA, De Mattos CC, Rupprecht CE, Rhabdoviruses. In: Knipe DM, Howley PM

- (eds.), *Fields Virology*, 1245–1278, Lippincott, Williams & Wilkins, Philadelphia 4th. Ed., 2001.
- Echevarria JE et al., Screening of active lyssavirus infection in wild bat populations by viral RNA detection on oropharyngeal swabs. *J. Clin. Microbiol.* 39, 3678–3683, 2001.
- Field H, McCall B, Barrett J, Australian bat lyssavirus infection in a captive juvenile black flying fox. *Emerg. Infect. Dis.* 5, 438–440, 1999.
- Fraser GC et al., Encephalitis caused by a lyssavirus in fruit bats in Australia. *Emerg. Infect. Dis.* 2, 327–331, 1996.
- Fu ZF et al., Oral vaccination of raccoons (*Procyon lotor*) with baculovirus-expressed rabies virus glycoprotein. *Vaccine* 11, 925–928, 1993.
- Hanna JN et al., Australian bat lyssavirus infection: a second human case, with a long incubation period. *Med. J. Aust.* 172, 597–599, 2000.
- Heaton PR et al., Seminested PCR assay for detection of six genotypes of rabies and rabies-related viruses. *J. Clin. Microbiol.* 35, 2762–2766, 1997.
- Johnson N, Cunningham AF, Fooks AR, The immune response to rabies virus infection and vaccination. *Vaccine* 28, 3896–3901, 2010.
- Johnson N et al., Human rabies due to lyssavirus infection of bat origin. *Vet. Microbiol.* 142, 151–159, 2010.
- Leung AK, Davies HD, Hon KL, Rabies: epidemiology, pathogenesis, and prophylaxis. *Adv. Ther.* 24, 1370–1347, 2007.
- Madsen PL, Danger from rabies-infected bats. *Lancet* 355, 934, 2000.
- Moran GJ et al., Appropriateness of rabies postexposure prophylaxis treatment for animal exposures. *Emergency ID Net Study Group. JAMA* 284, 1001–1007, 2000.
- Morimoto K et al., Characterization of a unique variant of bat rabies virus responsible for newly emerging human cases in North America. *Proc. Natl. Acad. Sci. USA* 93, 5653–5658, 1996.
- Nel LH, Markotter W, Lyssaviruses. *Crit. Rev. Microbiol.* 33, 301–324, 2007.
- Nigg AJ, Walker PL, Overview, prevention, and treatment of rabies. *Pharmacotherapy* 29, 1182–1195, 2009.
- Pape WJ, Fitzsimmons TD, Hoffman RE, Risk for rabies transmission from encounters with bats, Colorado, 1977–1996. *Emerg. Infect. Dis.* 5, 433–437, 1999.
- Plotkin S, Rabies: State-of-the-Art. *Clinical Picture. Clin. Inf. Dis.*, 30, 4–12, 2000.
- Ruiz M, Chavez CB, Rabies in Latin America. *Neurol. Res.* 32, 272–277, 2010.
- Rupprecht CE et al., Evidence for a 4-dose vaccine schedule for human rabies post-exposure prophylaxis in previously non-vaccinated individuals. *Vaccine* 27, 7141–7148, 2009.
- Smith JS, New aspects of rabies with emphasis on epidemiology, diagnosis, and prevention of the disease in the United States. *Clin. Microbiol. Rev.* 9, 166–176, 1996.
- Smith JS, Rabies virus. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1544–1552, 8th ed. Vol. 2 ASM Press Washington, DC, 2003.
- Schnell MJ et al., The cell biology of rabies: using stealth to reach the brain. *Nat. Rev. Microbiol.* 8, 51–61, 2010.
- Wacharapluesadee S, Hemachudha T, Nucleic acid sequence based amplification in the rapid diagnosis of rabies. *Lancet* 358, 892–893, 2001.
- Warner CK et al., Laboratory investigation of human deaths from vampire bat rabies in Peru. *Am. J. Trop. Med. Hyg.* 60, 502–507, 1999.
- Whitby JE et al., First isolation of a rabies-related virus from a Daubenton's bat in the United Kingdom. *Vet. Rec.* 147, 385–388, 2000.
- Wu X et al., Reemerging rabies and lack of systemic in People's Republic of China. *Emerg. Infect. Dis.* 15, 1159–1164, 2009.

1.8.2 Vesikuläre Stomatitis

- De Mattos CA, De Mattos CC, Rupprecht CE, Rhabdoviruses. In: Knipe DM, Howley PM (eds.), *Fields Virology*, 1245–1278, 4th ed. Lippincott, Williams & Wilkins.
- Fu ZF et al., Stomatitis virus New Jersey serotype in clini-Oral vaccination of raccoons (*Procyon lotor*) cal samples by using polymerase chain reacwith baculovirus-expressed rabies virus gly-tion. *J. Clin Microbiol.* 31, 2016–2020, coprotein. *Vaccine* 11, 925–928, 1993.
- Hole K, Velazques-Salinas L, Clavijo A, Improvement and optimization of a multiply real-time reverse transcription polymerase

- chain reaction assay for the detection and typing of vesicular stomatitis virus. *J. Vet. Diagn. Invest.* 22, 428–433, 2010.
- Letchworth GJ et al., Arboviruses. In: *Mur-Vesicular stomatitis*. *Vet. J.* 157, 239–260.
- Nunez JI et al., *A RT-cal Microbiology*, 1553–1569, 8th ed. Vol. PCR assay for the differential diagnosis of 2. ASM Press, Washington, DC, 2003.
- vesicular viral diseases of swine. *J. Virol. Methods* 72, 227–235, 1998.
- Schmitt B, Vesicular stomatitis. *Vet. Clin. North Am. Food Anim. Pract.* 18, 453–459, 2002.

1.9 Paramyxoviren

- Bowden TR et al., Molecular characterization of Menangle virus, a novel paramyxovirus which infects pigs, fruit bats, and humans. *Virology* 283, 358–373, 2001.
- Chua KB et al., Tioman virus, a novel paramyxovirus isolated from fruit bats in Malaysia. *Virology* 283, 215–229, 2001.
- Field HE, Mackenzie JS, Daszak P, Henipaviruses: emerging paramyxoviruses associated with fruit bats. *Curr. Top. Microbiol. Immunol.* 315, 133–159, 2007.
- Halpin K, Mungall BA, Recent progress in henipavirus research. *Comp. Immunol. Microbiol. Infect. Dis.* 30, 287–307, 2007.
- Harrison MS, Sakaguchi T, Schmitt AP, Paramyxoviruses assembly and budding: building particles that transmit infections. *Int. J. Biochem. Cell Biol.* 42, 1416–1429, 2010.
- Lamb RA, Kolakofsky D, Paramyxoviridae. The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1305–1340, 4th ed., Raven Press, New York, 2001.
- Chanock RM, Murphy BR, Collins PL, Paramyxoviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1341–1380, 4th ed., Raven Press, New York, 2001.
- Mackenzie JS et al., Emerging viral diseases of Southeast Asia and the Western Pacific. *Emerg. Infect. Dis.* 7, Suppl. 3, 497–504, 2001.
- Virtue ER, Marsh GA, Wang LF, Paramyxoviruses infecting humans: the old, the new and the unknown. *Future Microbiol.* 4, 537–554, 2009.
- ### 1.9.1 Newcastle-Krankheit
- Ali A, Reynolds DL, A multiplex reverse transcription-polymerase chain reaction assay for Newcastle disease virus and avian pneumovirus (Colorado strain). *Avian Dis.* 44, 938–943, 2000.
- Bukreyev A, Collins PL, Newcastle disease virus as a vector for humans. *Curr. Opin. Mol. Ther.* 10, 46–55, 2008.
- Csatary LK, Csatary E, Moss RW, Scientific interest in Newcastle disease virus is reviving. *J. Natl. Cancer Inst.* 92, 493–494, 2000.
- Huang HJ, Matsumoto M, Nonspecific innate immunity against *Escherichia coli* infection in chickens induced by vaccine strains of Newcastle disease virus. *Avian Dis.* 44, 790–796, 2000.
- Ke GM et al., Molecular characterization of Newcastle disease viruses isolated from recent outbreaks in Taiwan. *J. Virol. Methods* 97, 1–11, 2001.
- Kho CL et al., Performance of an RT-nested PCR ELISA for detection of Newcastle disease virus. *J. Virol. Methods* 86, 71–83, 2000.
- Lamb RA, Kolakofsky D, Paramyxoviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1305–1340, 4th ed., Raven Press, New York, 2001.
- Lorenz R et al., Phase 1 clinical experience using intravenous administration of PV701, an oncolytic Newcastle disease virus. *Curr. Cancer Drug Targets* 7, 157–167, 2007.
- Miller PJ, Decanini EL, Afonso CL, Newcastle disease: evolution of genotypes and the related diagnostic challenges. *Infect. Genet. Evol.* 10, 26–35, 2010.
- Seal BS, King DJ, Sellers HS, The avian response to Newcastle disease virus. *Dev. Comp. Immunol.* 24, 257–268, 2000.
- Sinkovics JG, Horvath JC, Newcastle disease virus (NDV): brief history of its oncolytic strains. *J. Clin. Virol.* 16, 1–15, 2000.
- Wang Z et al., Rapid detection and differentiation of Newcastle disease virus isolates by a triple one-step rtPCR. *Onderstepoort J. Vet. Res.* 68, 131–134, 2001.
- Ward MD et al., Nucleotide sequence and vacinia expression of the nucleoprotein of a highly virulent, neurotropic strain of Newcastle disease virus. *Avian Dis.* 44, 34–44, 2000.

1.9.2.1 Hendra-Viruskrankheit

- Aljofan M et al., Off label antiviral therapeutics for henipaviruses: new light through old windows. *J. Antivir. Antiretrovir.* 2, 1–10, 2010.
- Barclay AJ, Paton DJ, Hendra (equine morbillivirus). *Vet. J.* 160, 169–176, 2000.
- Bossart KN, Broder CC, Developments towards effective treatments for Nipah and Hendra virus infection. *Expert Rev. Anti. Infect. Ther.* 4, 43–55, 2006.
- Daniels P, Ksiazek T, Eaton BT, Laboratory diagnosis of Nipah and Hendra virus infections. *Microbes Infect.* 3, 289–295, 2001.
- Eaton BT et al., Hendra and Nipah viruses: different and dangerous. *Nat. Rev. Microbiol.* 4, 23–35, 2006.
- Franke J et al., Identification and molecular characterization of 18 paramyxoviruses isolated from snakes. *Virus Res.* 80, 67–74, 2001.
- Field HE et al., A fatal case of Hendra virus infection in a horse in North Queensland: clinical and epidemiological features. *Aust. Vet. J.* 78, 279–280, 2000.
- Field H et al., Hendra virus outbreak with novel clinical features, Australia. *Emerg. Infect. Dis.* 16, 338–340, 2010.
- Halpin K et al., Identification and molecular characterization of Hendra virus in a horse in Queensland. *Aust. Vet. J.* 78, 281–282, 2000.
- Halpin K et al., Isolation of Hendra virus from pteropid bats: a natural reservoir of Hendra virus. *J. Gen. Virol.* 81, 1927–1932, 2000.
- Lamb RA, Kolakofsky D, Paramyxoviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1305–1340, 4th ed., Raven Press, New York, 2001.
- McCormack JG, Hendra, Menangle and Nipah viruses. *Aust. N. Z. J. Med.* 30, 9–10, 2000.
- Smith IL et al., Development of a fluorogenic RT-PCR assay (TaqMan) for the detection of Hendra virus. *J. Virol. Methods* 98, 33–40, 2001.
- Wang LF et al., The exceptionally large genome of Hendra virus: support for creation of a new genus within the family Paramyxoviridae. *J. Virol.* 74, 9972–9979, 2000.
- Williamson MM et al., Experimental Hendra virus infection in pregnant guinea-pigs

and fruit bats (*Pteropus poliocephalus*). *J. Comp. Pathol.* 122, 201–207, 2000.

1.9.2.2 Nipah-Virus-Enzephalitis

- Ahmad K, Malaysia culls pigs as Nipah virus strikes again. *Lancet* 356, 230, 2000.
- Bossart KN, Broder CC, Developments towards effective treatments for Nipah and Hendra virus infection. *Expert Rev. Anti. Infect. Ther.* 4, 43–55, 2006.
- Bowden TR et al., Molecular characterization of Menangle virus, a novel paramyxovirus which infects pigs, fruit bats, and humans. *Virology* 283, 358–373, 2001.
- CDC, Update: outbreak of Nipah virus – Malaysia and Singapore, 1999. *MMWR Morb. Mortal Wkly. Rep.* 48, 335–337, 1999.
- Chadha MS et al., Nipah virus-associated encephalitis outbreak, Siliguri, India. *Emerg. Infect. Dis.* 12, 235–240, 2006.
- Chew MH et al., Risk factors for Nipah virus infection among abattoir workers in Singapore. *J. Infect. Dis.* 181, 760–763, 2000.
- Chiang CF et al., Use of monoclonal antibodies against Hendra and Nipah viruses in an antigen capture ELISA. *Virol. J.* 7, 115, 2010.
- Chong HT et al., Treatment of acute Nipah encephalitis with ribavirin. *Ann. Neurol.* 49, 810–813, 2001.
- Chow VT et al., Diagnosis of Nipah virus encephalitis by electron microscopy of cerebrospinal fluid. *J. Clin. Virol.* 19, 143–147, 2000.
- Chua KB et al., Nipah virus: a recently emergent deadly paramyxovirus. *Science* 288, 1432–1435, 2000.
- Chua KB et al., High mortality in Nipah encephalitis is associated with presence of virus in cerebrospinal fluid. *Ann. Neurol.* 48, 802–805, 2000.
- Chua KB et al., Fatal encephalitis due to Nipah virus among pig-farmers in Malaysia. *Lancet.* 354, 1257–1259, 1999.
- Chua KB et al., Tioman virus, a novel paramyxovirus isolated from fruit bats in Malaysia. *Virology* 283(2), 215–229, 2001.
- Chua KB, Nipah virus outbreak in Malaysia. *J. Clin. Virol.* 26, 265–275, 2003.
- Dimitrov DS, Wang LF, In utero transmission of Nipah virus: role played by pregnancy and vertical transmission in Henipavirus epidemiology. *J. Infect. Dis.* 196, 807–809, 2007.

- Eaton BT et al., Hendra and Nipah viruses: different and dangerous. *Nat. Rev. Microbiol.* 4, 23–35, 2006.
- Epstein JH et al., Nipah virus: impact, origins, and causes of emergence. *Curr. Infect. Dis. Rep.* 8, 59–65, 2006.
- Goh KJ et al., Clinical features of Nipah virus encephalitis among pig farmers in Malaysia. *New Engl. J. Med.* 342, 1229–1235, 2000.
- Halpin K et al., Newly discovered viruses of flying foxes. *Vet. Microbiol.* 68, 83–87, 1999.
- Harcourt BH et al., Molecular characterization of Nipah virus, a newly emergent paramyxovirus. *Virology* 271, 334–349, 2000.
- Homaira N et al., Cluster of Nipah virus infection, Kusthia District, Bangladesh, 2007. *PLoS One*: e13570, 2010.
- Homaira N et al., Nipah virus outbreak with person-to-person transmission in a district of Bangladesh, 2007. *Epidemiol. Infect.* 138, 1630–1633, 2010.
- Lamb RA, Kolakofsky D, Paramyxoviridae, the viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1305–1340, 4th ed., Raven Press, New York, 2001.
- Lim CC et al., Nipah viral encephalitis or Japanese encephalitis? MR findings in a new zoonotic disease. *Am. J. Neuroradiol.* 21, 455–461, 2000.
- Lo MK, Rota PA, The emergence of Nipah virus, a highly pathogenic paramyxovirus. *J. Clin. Virol.* 43, 396–400 (2008).
- Luby SP et al., Foodborne transmission of Nipah virus. *Bangladesh. Emerg. Infect. Dis.* 12, 1888–1894, 2006.
- NIPAH Virus Malaysia, official report Dr. Mohd Nordin Nodh Nor, Director General of Veterinary Services Ministry of Agriculture, Kuala Lumpur, 15.05.1999 proMED-mail, 06.06.1999. <<http://www.healthnet.org/programms/promed/html>>.
- Osterholm, MT, Emerging infections – another warning. *New Engl. J. Med.* 342, 1280–1281, 2000.
- Parashar UD et al., Casecontrol study of risk factors for human infection with a new zoonotic paramyxovirus, Nipahvirus, during a 1998–1999 outbreak of severe encephalitis in Malaysia. *J. Infect. Dis.* 181, 1755–1759, 2000.
- Paton NI et al., Outbreak of Nipah-virus infection among abattoir workers in Singapore. *Lancet* 354, 1253–1256, 1999.
- Sarji SA et al., MR imaging features of Nipah encephalitis. *Am. J. Roentgenol.* 175, 437–442, 2000.
- Tan CT, Chua KB, Nipah virus encephalitis. *Curr. Infect. Dis. Rep.* 10, 315–320, 2008.
- Yu F et al., Serodiagnosis using recombinant Nipah virus nucleocapsid proteins expressed in *Escherichia coli*. *J. Clin. Microbiol.* 44, 134–138, 2006.
- Wang LF et al., The exceptionally large genome of Hendra virus: support for creation of a new genus within the family paramyxoviridae. *J. Virol.* 74, 9972–9979, 2000.

1.10 Orthomyxoviren (Schweineinfluenza H1N1 und Geflügelinfluenza H5N1, H7N7, H9N2)

- Anonymus, Influenza A virus subtype H5N1 infection in humans. *Commun. Dis. Rep. CDR Wkly.* 7, 441, 1997.
- Cauthen AN et al., Continued circulation in China of highly pathogenic avian influenza viruses encoding the hemagglutinin gene associated with the 1997 H5N1 outbreak in poultry and humans. *J. Virol.* 74, 6592–6599, 2000.
- CDC, Update: isolation of avian influenza A (H5N1) viruses from humans – Hong Kong, 1997–1998. *MMWR Morb. Mortal. Wkly. Rep.* 46, 1245–1247, 1998.
- CDC, Isolation of avian influenza A (H5N1) viruses from humans – Hong Kong, May–December 1997. *MMWR Morb. Mortal. Wkly. Rep.* 46, 1204–1207, 1997.
- Choi YK et al., Detection and subtyping of swine influenza H1N1, H1N2 and H3N2 viruses in clinical samples using two multiplex RT-PCR assays. *J. Virol. Methods* 102, 53–59, 2002.
- Cox NJ, Ziegler T, Influenza viruses. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1360–1367, 8th ed. Vol. 2. ASM Press, Washington, DC, 2003.
- Ellis JS, Zambon MC, Combined PCR-heteroduplex mobility assay for detection and differentiation of influenza A viruses from different animal species. *J. Clin. Microbiol.* 39, 4097–4102, 2001.

- Lam RA, Krug RM, Orthomyxoviridae: the viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1487–1532, 4th ed., Raven Press, New York, 2001.
- Lee MS et al., Identification and subtyping of avian influenza viruses by reverse transcription-PCR. *J. Virol. Methods* 97, 13–22, 2001.
- Lin YP et al., Avian-tohuman transmission of H9N2 subtype influenza A viruses: relationship between H9N2 and H5N1 human isolates. *Proc. Natl. Acad. Sci. USA* 97, 9654–9658, 2000.
- Ku AS, Chan LT, The first case of H5N1 avian influenza infection in a human with complications of adult respiratory distress syndrome and Reye's syndrome. *J. Paediatr. Child Health* 35, 207–209, 1999.
- Munch M et al., Detection and subtyping (H5 and H7) of avian type A influenza virus by reverse transcription-PCR and PCR-ELISA. *Arch. Virol.* 146, 87–97, 2001.
- Saito T et al., Characterization of a human H9N2 influenza virus isolated in Hong Kong. *Vaccine* 20, 125–133, 2001.
- Wright PF, Webster RG, Orthomyxoviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 1533–1580, 4th ed., Raven Press, New York, 2001.
- Zhou N et al., Influenza infection in humans and pigs in southeastern China. *Arch. Virol.* 141, 649–661, 1996.
- Oleksiewicz MB, Donaldson AI, Alexandersen S, Development of a novel real-time RT-PCR assay for quantitation of foot-and-mouth disease virus in diverse porcine tissues. *J. Virol. Methods* 92, 23–35, 2001.
- Pallansch MA, Roos RP, Enteroviruses. In: Knipe DM, Howley PM (eds.), *Fields Virology*, 723–776, 4th ed., Lippincott, Williams & Wilkins, Philadelphia, 2001.
- Racaniello VR, Picornaviridae. In: Knipe DM, Howley PM (eds.), *Fields Virology*, 685–722, 4th ed., Lippincott, Williams & Wilkins, Philadelphia, 2001.
- Reid SM et al., Primary diagnosis of foot-and-mouth disease by reverse transcription polymerase chain reaction. *J. Virol. Methods* 89, 167–176, 2000.
- Verstrepen WA et al., Rapid detection of enterovirus RNA in cerebrospinal fluid specimens with a novel single test-tube real-time reverse transcription PCR Assay. *J. Clin. Microbiol.* 39, 4093–4096, 2001.
- Zell R et al., Detection of porcine enteroviruses by nRT-PCR: differentiation of CPE groups I–III with specific primer sets. *J. Virol. Methods* 88, 205–218, 2000.

1.11 Picornaviren

1.11.1 Bläschenkrankheit des Schweins

- Callens M, de Clercq K, Highly sensitive detection of swine vesicular disease virus based on a single tube RT-PCR system and DIG-ELISA detection. *J. Virol. Methods* 77, 87–99, 1999.
- Lin F, Mackay DK, Knowles NJ, The persistence of swine vesicular disease virus infection in pigs. *Epidemiol. Infect.* 121, 459–472, 1998.
- Lindberg AM, Polacek C, Molecular analysis of the prototype Coxsackievirus B5 genome. *Arch. Virol.* 145, 205–221, 2000.
- Nunez JI et al., A RTPCR assay for the differential diagnosis of vesicular viral diseases of swine. *J. Virol. Methods* 72, 227–235, 1998.

1.11.2 Maul- und Klauenseuche

- Bauer K, Foot-and-mouth disease as zoonosis. *Arch. Virol. Suppl. Review* 13, 95–97, 1997.
- Brook K et al., Viral capsid mobility: A dynamic conduit for inactivation. *Proc. Natl. Acad. Sci. USA* 98, 2274–2277, 2001.
- Garcia-Briones MM et al., Association of bovine DRB3 alleles with immune response to FMDV peptides and protection against viral challenge. *Vaccine* 19, 1167–1171, 2000.
- Mayr GA et al., Immune responses and protection against foot-and-mouth disease virus (FMDV) challenge in swine vaccinated with adenovirus-FMDV constructs. *Vaccine* 19, 2152–2162, 2001.
- McMinn P et al., Neurological manifestations of enterovirus 71 infection in children during an outbreak of hand, foot, and mouth disease in Western Australia. *Clin. Infect. Dis.* 32, 236–242, 2001.
- Oleksiewicz MB, Donaldson AI, Alexandersen S, Development of a novel real-time RT-PCR assay for quantitation of foot-and-mouth disease virus in diverse porcine tissues. *J. Virol. Methods* 92, 23–35, 2001.

- Pickrell J, Enserink M, Foot-and-mouth disease. U.K. outbreak is latest in global epidemic. *Science* 291, 1677, 2001.
- Prempeh H, Smith R, Muller B, Foot and mouth disease: the human consequences. The health consequences are slight, the economic ones huge. *BMJ* 322, 565–566, 2001.
- Racaniello VR, Picornaviridae. In: Knipe DM, Howley PM (eds.), *Fields Virology*, 685–722, 4th ed., Lippincott, Williams & Wilkins, Philadelphia, 2001.
- Reid SM et al., Primary diagnosis of foot-and-mouth disease by reverse transcription polymerase chain reaction. *J. Virol. Methods* 89, 167–176, 2000.
- Rodriguez-Torres JG, International approach to eradication and surveillance for foot-and-mouth disease in the Americas. *Ann. N. Y. Acad. Sci.* 916, 194–198, 2000.
- Samuel AR, Knowles NJ, Foot-and-mouth disease type O viruses exhibit genetically and geographically distinct evolutionary lineages (topotypes). *J. Gen. Virol.* 82, 609–621, 2001.
- Zell R et al., Detection of porcine enteroviruses by nRT-PCR: differentiation of CPE groups I–III with specific primer sets. *J. Virol. Methods* 88, 205–218, 2000.
- 1.11.3 Enzephalomyokarditis**
- Racaniello VR, Picornaviridae. In: Knipe DM, Howley PM (eds.), *Fields Virology*, 685–722, 4th ed., Lippincott, Williams & Wilkins, Philadelphia, 2001.
- Yoon JW et al., Antibody to encephalomyocarditis virus in juvenile diabetes. *New Engl. J. Med.* 297, 1235–1236, 1977.
- in solid-organ transplant recipients in France. *J Infect Dis.* 202, 835–844, 2010.
- Lul L, Hagedorn CH, Phylogenetic analysis of global hepatitis E sequences: genetic subtypes and zoonosis. *Rev.Med.Virol.* 16, 5–36, 2006.
- Mushahwar JK, Hepatitis E virus: transmission, epidemiology and prevention. *Rev. Med. Virol.* 80, 645–658, 2008.
- Panda SK, Thakral D, Rehmann S, Hepatitis E virus. *Rev. Med. Virol.* 17, 151–180, 2007.
- Shrestha MP et al., Safety and Efficacy of a Recombinant Hepatitis E-Vaccine. *N. Engl. J. Med.* 356, 895–903, 2007.
- Savic B et al., Detection rates of the swine torqueno viruses (TTVs), porcine circovirus type 2 (PCV2) and hepatitis E virus (HEV) in the livers of pigs with hepatitis. *Vet Res Commun.* 34, 641–648, 2010.
- Schaefer S, Hepatitis-E-Virus in Doerr HW, Gerlich WH (Hrsg.), *Medizinische Virologie*, 494–498, Thieme, Stuttgart, 2. Aufl., 2010.
- Emerson SU, Purcell RH, Hepatitis E Virus in Knipe DM, Howley PM (eds.), *Fields Virology*, 3047–3058, Lippincott Williams & Wilkins, a. Wolters Kluwer Business, Philadelphia, 5th ed., 2007.
- Wichmann O, Koch J, Hepatitis E. Häufiger eine autochthone als ein importierte Erkrankung. *Flug-, Tropen- und Reisemedizin* 18, 74–79, 2011.
- Stellungnahmen des Arbeitskreises Blut des Bundesministeriums für Gesundheit. *Hepatitis E-Virus. Bundesgesundheitsbl.-Gesundheitsforsch.-Gesundheitsschutz* 51, 90–97, 2008.

1.12 Hepatitis E

- Colson P et al., Pig liver sausage as a source of hepatitis E virus transmission to humans. *J Infect* 202, 825–34, 2002.
- Kamar N et al., Hepatitis E-Virus and Chronic Hepatitis in Organ Transplant Recipients. *N. Engl. J. Med.* 358: 811–817, 2008.
- Kamar N et al., Factors associated with chronic hepatitis in patients with hepatitis E virus infection who have received solid organ transplants. *Gastroenterology* 140, 1481–1489, 2011.
- Legrand-Abgravanel F et al., Characteristics of autochthonous hepatitis E virus infection

1.13 Coronaviren und 1.13.1 – SARS

- Abdullah ASM et al., Lessons from the severe acute respiratory syndrome outbreak in Hong Kong. *Emerg. Infect. Dis.* 9, 1042–1045, 2003.
- Breiman RF et al., Role of China in the quest to define and control severe acute respiratory syndrome. *Emerg. Infect. Dis.* 9, 1037–1041, 2003.
- CDC, Use of quarantine to prevent transmission of severe acute respiratory syndrome – Taiwan. *MMWR Morb. Mortal. Wkly. Rep.* 52, 680–3, 2003.
- CDC, Update: Severe acute respiratory syndrome – United States, 2003. *MMWR Morb. Mortal. Wkly. Rep.* 52, 616, 2003.

- Cooke FJ, Shapiro DS, Global outbreak of severe acute respiratory syndrome (SARS). *Int. J. Infect. Dis.* 7, 80–5, 2003.
- Ding Y et al., The clinical pathology of severe acute respiratory syndrome (SARS): a report from China. *J. Pathol.* 200, 282–9, 2003.
- Drosten C et al., Identification of a novel coronavirus in patients with severe acute respiratory syndrome. *New Engl. J. Med.* 348, 1967–76, 2003.
- Fowler RA et al., Toronto SARS Critical Care Group: Critically ill patients with severe acute respiratory syndrome. *JAMA* 290, 367–73, 2003.
- Galvani AP, Lei X, Jewell NP, Severe acute respiratory syndrome: temporal stability and geographic variation in case-fatality rates and doubling times. *Emerg. Infect. Dis.* 9, 991–994, 2003.
- Hartley DM, Smith DL, Uncertainty in SARS epidemiology. *Lancet* 362, 170–1, 2003.
- Hsu LY et al., Severe acute respiratory syndrome in Singapore: clinical features of index patient and initial contacts. *Emerg. Infect. Dis.* 9, 713–17, 2003.
- Ksiazek TG et al., A novel coronavirus associated with severe acute respiratory syndrome. *New Engl. J. Med.* 348, 1953–66, 2003.
- Kuiken T et al., Newly discovered coronavirus as the primary cause of severe acute respiratory syndrome. *Lancet* 362, 263–70, 2003.
- Lew TW et al., Acute respiratory distress syndrome in critically ill patients with severe acute respiratory syndrome. *JAMA.* 290, 374–80, 2003.
- Li L, Cheng S, Gu J, SARS infection among health care workers in Beijing, China. *JAMA* 290, 2662–2663, 2003.
- Loutfy MR et al., Interferon alfacon-1 plus corticosteroids in severe acute respiratory syndrome: a preliminary study. *JAMA* 290, 3222–3228, 2003.
- Pang X et al., Evaluation of control measures implemented in the severe acute respiratory syndrome outbreak in Beijing, 2003. *JAMA* 290, 3215–3221, 2003.
- Torpy JM, Lynn C, Glass RM, JAMA patient page. Severe acute respiratory syndrome (SARS). *JAMA* 290, 3318, 2003.
- Tsui PT et al., Severe acute respiratory syndrome: clinical outcome and prognostic correlates. *Emerg. Infect. Dis.* 9, 1064–1069, 2003.
- Tsui SK, Chim SS, Lo YM, Chinese University of Hong Kong Molecular SARS Research Group: Coronavirus genomic-sequence variations and the epidemiology of the severe acute respiratory syndrome. *New Engl. J. Med.* 349, 187–8, 2003.
- Twu SJ et al., Control measures for severe acute respiratory syndrome (SARS) in Taiwan. *Emerg. Infect. Dis.* 9, 718–720, 2003.
- Wang H et al., Fatal aspergillosis in a patient with SARS who was treated with corticosteroids. *New Engl. J. Med.* 349, 507–8, 2003.
- Wong WM et al., Temporal patterns of hepatic dysfunction and disease severity in patients with SARS. *JAMA* 290, 2663–2665, 2003.
- ### 1.14.1 Primaten T-Zell-lymphotrope Viren PTLV I und PTLV II
- Balogou AA et al., Prevalence of HTLV-1 virus infection in Togo (Kozah prefecture and the University Hospital Center of Lomé). *Bull Soc Pathol Exot.* 93, 3–5, 2000.
- Carles G et al., HTLV1 infection and pregnancy. *J Gynecol Obstet Biol Reprod (Paris).* 33, 14–20, 2004.
- Clyti E et al., Infective dermatitis and recurrent strongyloidiasis in a child. *Ann Dermatol Venerol.* 131, 191–3, 2004.
- Gonçalves DU et al., Epidemiology, treatment, and prevention of human T-cell leukemia virus type 1-associated diseases. *Clin Microbiol Rev.* 23, 577–89, 2010.
- Grassmann R, Menschliche T-Zell-Leukämieviren (HTLV-1). In: Doerr HW, Gerlich WH (Hrsg.) *Medizinische Virologie.* 2. Aufl. Stuttgart, Georg Thieme; 2010: 335–340.
- Hamaad A, Davis RC, Connolly DL, Regression of HTLV1 associated intracardiac lymphoma following chemotherapy. *Heart.* 88, 621, 2002.
- Hovette P et al., Pulmonary strongyloidiasis complicated by E. coli meningitis in a HIV-1 and HTLV-1 positive patient. *Presse Med.* 3, 2021–2023, 2002.
- Lairmore MD, Franchini G, Human T-cell leukaemia virus type 1 and 2 in: Knipe DM, Howley PM eds. *Fields Virology.* 5th ed. Philadelphia: Lippincott Williams and Wilkins; 2071–2105, 2007.
- Laveaux K et al., Localized nasal cavity, sinus, and massive bilateral orbital involvement by human T cell leukemia virus 1 adult T cell lymphoma, with epidermal hypertro-

- phy due to mite infestation. *Rare Tumors*. 31, e59, 2010.
- Mane LL et al., HTLV-1 tropism and envelope receptor Oncogene. Sep 5, 6016–25, 2005.
- Nicolas M, Perez JM, Carme B, Intestinal parasitosis in French West Indies: endemic evolution from 1991 to 2003 in the University Hospital of Pointe-a-Pitre, Guadeloupe. *Bull Soc Pathol Exot*. 2006 Oct; 99(4): 254–7. French.
- Proietti FA et al., Global epidemiology of HTLV 1 infection and associated diseases. *Oncogene* 24, 6058 – 6058, 2005.
- Roucoux DF, Murphy DL, The epidemiology and disease outcome of human T-lymphotropic virus type 2. *AIDS Rev*. 6, 144–154, 2004.
- Yamada Y, Tomonaga M, The current status of therapy for adult T-cell leukaemia-lymphoma in Japan. *Leuk Lymphoma* 44, 611–618, 2003.
- Yoshida M, Discovery of HTLV 1, the first human retrovirus, its unique regulatory mechanisms, and insights into pathogenesis. *Oncogene* 24, 5931–5937, 2005.
- 1.14.2 Lentiviren. HIV I und HIV II**
- Barré-Sinoussi F et al., Isolation of a T-lymphotropic retrovirus from a patient at risk of acquired immunodeficiency syndrome. *Science* 220, 868–871, 1983.
- Desroisier RC, Nonhuman Lentiviruses. In: Fields BN et al. (eds.). *Fields Virology* 5th ed. Philadelphia: Lippicott, Williams and Wilkins; 2214–2243, 2007.
- Freed EO, Martin MA, HIVs and their replication. In: Fields BN et al. (eds.), *Fields Virology* 5th ed. Philadelphia: Lippicott, Williams and Wilkins; 2107 – 2185, 2007.
- Hahn BH et al., AIDS as a zoonosis: scientific and public health implications. *Science* 28, 607–614, 2000.
- Kahn JO, Walker BD, Acute human immunodeficiency virus type 1 infection. *N. Engl. J. Med*. 339, 33–39, 1998.
- Kirchhoff F, Humanes Immundefizienz-Virus HIV. In: Doerr HW, Gerlich WH (Eds.) *Medizinische Virologie*. 2. Aufl. Stuttgart, Georg Thieme; 315 – 334, 2010.
- Kuritzkes DR, Walker BD, HIV 1: Pathogenesis, clinical manifestations and treatment. In: Fields BN et al. (eds.), *Fields Virology* 5th ed. Philadelphia: Lippicott, Williams and Wilkins; 2187–2214, 2007.
- Letvin NL, Walker BD, Immunopathogenesis and Immunotherapy in AIDS virus infections. *Nat.Med*. 9: 861–866, 2003.
- Mattapallil JJ et al., Massive infection and loss of memory CD4+ T-cells in multiple tissues during acute SIV infection. *Nature* 434, 1093–1097, 2005.
- Mc Govern B, Hepatic safety and HAART. *J. Int. Assoc. Physicians AIDS Care* 3: 24–40, 2004.
- Münch J et al., Semen-derived amyloid fibrils drastically enhance HIV-Infection. *Cell* 131, 1059–1071, 2007.
- Plantier JC et al., A new human immune deficiency virus derived from gorillas. *Nat. Med*. 15, 871–871, 2009.
- Silvestri G et al., Understanding the benign nature of SIV infection in natural hosts. *J. Clin. Invest*. 117, 3148–3154, 2007.
- Simon V, Ho DD, Abdool Karim Q, HIV/AIDS epidemiology, pathogenesis, prevention, and treatment. *Lancet* 368, 489–504, 2006.
- Van Heuverswyn F, Peeters M, Origins of HIV and implications for the global epidemic. *Curr. Inf. Dis. Rep* 9, 338–346, 2007.
- Zhu T et al., An African HIV-1 sequence and implications for the origin of the epidemic. *Nature* 391, 594–597, 1998.
- 1.14.3 Endogene Retroviren**
- Bannert N, Kurth R, The evolutionary dynamics of human endogenous retroviral families. *Annu. Rv. Genomics Hum. Genet*. 7, 149–173, 2006.
- Belshaw R, Dawson AL, Woolven-Allen J, Genomewide screening reveals high levels of insertional polymorphism in the human endogenous retrovirus family HERV-K(HML2): implications for present-day activity. *J. Virol*. 79, 12507–12514, 2005.
- Belshaw R et al., High copy number in human endogenous retrovirus families is associated with copying mechanism in addition to reinfection. *Mol. Biol. Evol*. 22, 814–817, 2005.
- Choi Y, Kappler JW, Marrack P, A superantigen encoded in the open reading frame of the 3' long terminal repeat of mouse mammary tumour virus. *Nature* 350, 203–207, 1991.
- Denner J, Immunosuppression by retroviruses: implications for xenotransplantation. *Ann. NY Acad. Sci*. 862, 75–86, 1998.

- Denner J, Endogene Retroviren. In: Doerr HW, Gerlich WH (eds.), *Medizinische Virologie*. 2. Aufl. Stuttgart, Georg Thieme; 341–344, 2010.
- Katzourakis A, Rambaut A, Pybus OG, The evolutionary dynamics of endogenous retroviruses. *Trends Microbiol.* 13, 463–468, 2005.
- Löwer R, Löwer J, Kurth R, The viruses in all of us: characteristics and biological significance of human endogenous retrovirus sequences. *Proc. Natl. Acad. Sci.* 93, 5177–5184, 1996.
- Posnett DN, Jarilina AA, Sleeping with the enemy. *Endogenous superantigens in humans.* *Immunity* 15, 503–506, 2001.
- Rupprecht K et al., Endogenous retroviruses and cancer. *Cell Mol. Life Sci.* 65, 1008–1016, 2008.
- Suttkowski N et al., Epstein-Barr virus transactivates the human endogenous retrovirus HERV-K18 that encodes a superantigen. *Immunity* 15, 579–589, 2001.
- 1.15.1 Herpes B-Virus, Affenherpesvirus-Infektion**
- Artenstein AW et al., Human infection with B virus following a needlestick injury. *Rev. Infect. Dis.* 13, 288–291, 1991.
- Bennet et al., Protection against herpes B virus infection in rabbits with a recombinant vaccinia virus expressing glycoprotein D. *J. Med. Virol.* 57, 47–56, 1999.
- Black DH, Eberle R, Detection and differentiation of primate alpha-herpes-viruses by PCR. *J. Vet. Diagn. Invest.* 9, 225–231, 1997.
- Blewett EL, Saliki JT, Eberle R, Development of a competitive ELISA for detection of primates infected with monkey B virus (*Herpesvirus simiae*). *J. Virol. Methods* 77, 59–67, 1999.
- CDC, Fatal cercopithecine herpesvirus 1 (B virus) following a mucocutaneous exposure and interim recommendations for worker protection. *MMWR Morb. Mortal. Wkly. Rep.* 47, 1073–1076, 1998.
- Hirano M et al., Rapid discrimination of monkey B virus from human herpes simplex viruses by PCR in the presence of betaine. *J. Clin. Microbiol.* 38, 1255–1257, 2000.
- Holmes GP et al., Guidelines for the prevention and treatment of B-virus infections in exposed persons. The B virus working group. *Clin. Infect. Dis.* 20: 421–439, 1995.
- Jerome KR, Ashley RL, Herpes simplex virus and herpes B-virus. In: Murray PR et al., (eds.), *Manual of Clinical Microbiology*, 1291–1303, 8th Ed. Vol. 2. ASM Press. Washington, DC, 2003.
- Sabin AB, Wright AM, Acute ascending myelitis following a monkey bite, with the isolation of a virus capable of producing the disease. *J. Exp. Med.* 59, 115–136, 1934.
- Whitley RJ, Hilliard JK, Cercopithecine Herpesvirus (B Virus). In: Knipe DP, Howley PM (eds.), *Fields Virology*, 2835–2848, 4th ed., Lippincott, Williams & Wilkins, 2006.
- 1.16.1 Orthopoxvirus**
- Damaso CR et al., An emergent poxvirus from humans and cattle in Rio de Janeiro State: Cantagalo virus may derive from Brazilian smallpox vaccine. *Virology* 277, 439–449, 2000.
- Dixon CW, Smallpox. J. and A. Churchill, London 1962.
- Espy MJ et al., Detection of smallpox virus DNA by lightcycler PCR. *J. Clin. Microbiol.* 40, 1985–1988, 2002.
- Fenner F et al., *Smallpox and its eradication.* Geneva: World Health Organization, 1988.
- Herrlich A, *Die Pocken.* 2. Aufl., Georg Thieme, Stuttgart, New York, 1967.
- Knight JC, Massung RF, Exposito JJ, Polymerase chain reaction identification of smallpox virus. In: Becker Y, Darai G (eds.), *Diagnosis of human viruses by PCR technology*, 297–302, 2nd ed., Springer, Berlin, Heidelberg, New York, 1995.
- Loparev VN et al., Detection and differentiation of Old World orthopoxviruses: restriction fragment length polymorphism of the crmB gene region. *J. Clin. Microbiol.* 39, 94–100, 2001.
- Ropp SL et al., PCR strategy for identification and differentiation of smallpox and other orthopoxviruses. *J. Clin. Microbiol.* 33, 2069–2076, 1995.
- Smee DF, Characterization of wild-type and cidofovir-resistant strains of camelpox, cowpox, monkeypox, and vaccinia viruses. *Antimicrob. Agents Chemother.* 46, 1329–1335, 2002.

1.16.1.1 Affenpockenvirus-Infektion

- Hutin YJ et al., Outbreak of human monkey-pox, Democratic Republic of Congo, 1996 to 1997. *Emerg. Infect. Dis.* 7, 434–438, 2001.
- Khodakevich L et al., Orthopoxvirose si-mienne de l'homme en République Centrafricaine. *Bull. Soc. Pathol. Exot. Filiales.* 78, 311–320, 1985.
- Meyer A et al., Première apparition au Gabon de monkey-pox chez l'homme. *Med. Trop.* 51, 53–57, 1991.
- Neubauer H et al., Specific detection of monkeypox virus by polymerase chain reaction. *J. Virol. Methods* 74, 201–207, 1998.
- Ropp SL et al., PCR strategy for identification and differentiation of small pox and other orthopoxviruses. *J. Clin. Microbiol.* 33, 2069–2076, 1995.
- Shchelkunov SN et al., Human monkeypox and smallpox viruses: genomic comparison. *FEBS Lett.* 509, 66–70, 2001.
- Zaucha M et al., The pathology of experimental aerosolized monkeypox virus infection in cynomolgus monkeys (*Macaca fascicularis*). *Lab. Invest.* 81, 1581–1600, 2001.

1.16.1.2 Vakziniavirus-Infektion

- Dixon CW, Smallpox. J. and A. Churchill, London 1962.
- Espy MJ et al., Detection of smallpox virus DNA by lightcycler PCR. *J. Clin. Microbiol.* 40, 1985–1988, 2002.
- Fenner F et al., Smallpox and its eradication. Geneva: World Health Organization, 1988.
- Herrlich A, Die Pocken. 2. Aufl., Georg Thieme, Stuttgart, New York 1967.
- Moss B, Poxviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 2849–2885, 4th ed., Raven Press, New York. 2001.
- Redfield RR et al., Disseminated vaccinia in a military recruit with human immunodeficiency virus (HIV) disease. *New Engl. J. Med.* 316, 673–676, 1987.
- Ropp SL et al., Poxviruses infecting humans. In: Murray PR et al., (eds.), *Manual of Clinical Microbiology*, 1137–1144, 7th ed. American Society of Microbiology, Washington, 1999.

1.16.1.3 bis 1.16.1.6 Büffelpocken, Kuhpocken, Kamelpocken, Elefantpocken

- Anonymus, Don't underestimate the enemy. *Nature* 409, 269, 2001.
- Baxby D, Hill BJ, Characteristics of a new pox-virus isolated from Indian buffaloes. *Arch. Gesamte Virusforsch.* 35, 70–79, 1971.
- Dixon CW, Smallpox. J. and A. Churchill, London 1962.
- Espy MJ et al., Detection of smallpox virus DNA by lightcycler PCR. *J. Clin. Microbiol.* 40, 1985–1988, 2002.
- Fenner F et al., Smallpox and its eradication. Geneva: World Health Organization, 1988.
- Gubser C, Smith GL, The sequence of camel-pox virus shows it is most closely related to variola virus, the cause of smallpox. *J. Gen. Virol.* 83, 855–872, 2002.
- Herrlich A, Die Pocken. 2. Aufl., Georg Thieme, Stuttgart, New York 1967.
- Jackson RJ et al., Expression of mouse interleukin-4 by a recombinant ectromelia virus suppresses cytolytic lymphocyte responses and overcomes genetic resistance to mousepox. *J. Virol.* 75, 1205–1210, 2001.
- Kolhapure RM et al., Investigation of buffalo-pox outbreaks in Maharashtra State during 1992–1996. *Indian J. Med. Res.* 106, 441–446, 1997.
- Lal SM, Singh IP, Buffalo-pox – a review. *Trop. Anim. Health Prod.* 9, 107–112, 1977.
- Marennikova SS et al., The biotype and genetic characteristics of an isolate of the cowpox virus causing infection in a child. *Zh. Microbiol. Epidemiol. Immunobiol.* (4), 6–10, in Russisch, 1996.
- Pfeffer M et al., Fatal form of camelpox virus infection. *Vet. J.* 155, 107–109, 1998.
- Pfeffer M et al., Comparison of camelpox viruses isolated in Dubai. *Vet. Microbiol.* 49, 135–146, 1996.
- Ropp SL et al., PCR strategy for identification and differentiation of smallpox and other orthopoxviruses. *J. Clin. Microbiol.* 33, 2069–2076, 1995.

1.16.2 Parapocken

- Damon IK, Esposito JJ, Poxviruses that infect humans. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1583–1591, 8th ed. Vol. 2. ASM Press, Washington, DC, 2003.

- Esposito JJ, Fenner F, Poxviruses. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*. 2885–2922, 4th ed., Raven Press, New York, 2001.
- Inoshima Y, Morooka A, Sentsui H, Detection and diagnosis of parapoxvirus by the polymerase chain reaction. *J. Virol. Methods* 84, 201–208, 2000.
- Mercer A et al., Molecular genetic analyses of parapoxviruses pathogenic for humans. *Arch. Virol. Suppl.* 13, 25–34, 1997.
- Moss B, Poxviridae: The viruses and their replication. In: Knipe DM, Howley PM, Griffin DE (eds.), *Fields Virology*, 2849–2885, 4th ed., Raven Press, New York, 2001.
- Redfield RR et al., Disseminated vaccinia in a military recruit with human immunodeficiency virus (HIV) disease. *New Engl. J. Med.* 316, 673–676, 1987.
- Ropp SL et al., Poxviruses infecting humans. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1137–1144, 7th ed. American Society of Microbiology, Washington, 1999.
- 1.17 Mit Prionen assoziierte Zoonosen und 1.17.1 BSE**
- Appel TR et al., Heat stability of prion rods and recombinant prion protein in water, lipid and lipid-water mixtures. *J. Gen. Virol.* 82, 465–473, 2001.
- Asher DM, Transmissible spongiform encephalopathies. In: Murray PR et al. (eds.), *Manual of Clinical Microbiology*, 1125–1136, 7th ed. American Society of Microbiology, Washington, 1999.
- Baron TG, Biacabe AG, Molecular analysis of the abnormal prion protein during coinfection of mice by bovine spongiform encephalopathy and a scrapie agent. *J. Virol.* 75, 107–114, 2001.
- Chesebro B, Fields B, Transmissible spongiform encephalopathies: A brief introduction. In: Fields BA et al. (eds.), *Virology*, 2845–2850, 3rd ed., Raven Press, New York, 1996.
- Foster J et al., Partial dissociation of PrP(Sc) deposition and vacuolation in the brains of scrapie and BSE experimentally affected goats. *J. Gen. Virol.* 82, 267–273, 2001.
- Fraser H, Phillips report and the origin of BSE. *Vet. Rec.* 147, 724, 2000.
- Gajdusek DC, Infectious amyloids: subacute spongiform encephalopathies as transmissible cerebral amyloidoses. In: Fields BA et al. (eds.), *Virology*, 2851–2900, 3rd ed., Raven Press, New York, 1996.
- Haltia M, Human prion diseases. *Ann. Med.* 32(7), 493–500, 2000.
- Laffling AJ et al., A monoclonal antibody that enables specific immunohistological detection of prion protein in bovine spongiform encephalopathy cases. *Neurosci. Lett.* 300, 99–102, 2001.
- Prusiner SB, Prions. In: Fields BA et al. (eds.), *Virology*. 3rd ed., 2901–2949, Raven Press, New York, 1996.
- Shaked GM et al., Protease-resistant and detergent-insoluble prion protein is not necessarily associated with prion infectivity. *J. Biol. Chem.* 274, 17981–17986, 1999.
- Shaked GM et al., Reconstitution of prion infectivity from solubilized protease-resistant PrP and nonprotein components of prion rods. *J. Biol. Chem.* 276, 2001.
- Van Keulen LJ et al., Diagnosis of bovine spongiform encephalopathy: a review. *Vet. Q.* 22, 197–200, 2000.
- Weissmann C, Aguzzi A, PrP's double causes trouble. *Science* 286, 914–915, 1999.
- Wrathall AE et al., Studies of embryo transfer from cattle clinically affected by bovine spongiform encephalopathy (BSE). *Vet. Rec.* 150, 365–378, 2002.

2 Durch Bakterien hervorgerufene Zoonosen

2.2 Bartonellose

- Angelakis E et al., Potential for tick-borne Bartonellosis. *Emerg. Infect. Dis.* 16, 385–391, 2010.
- Breitschwerdt EB, Kordick DL, Bartonella infection in animals: carriership, reservoir potential, pathogenicity, and zoonotic potential for human infection. *Clin. Microbiol. Rev.* 13, 428–438, 2000.
- Breitschwerdt EB et al., Bartonellosis: an emerging infectious disease of zoonotic importance to animals and human beings. *J. Vet. Emerg. Crit. Care (San Antonio)* 20, 8–30, 2010.
- Chomel BB et al., Bartonella spp. in pets and effect on human health. *Emerg. Infect. Dis.* 12, 389–394, 2006.
- Chomel BB, Kasten RW, Bartonellosis, an increasingly recognized zoonosis. *J. Appl. Microbiol.* 109, 743–750, 2010.
- Guphill L, Bartonellosis. *Vet. Microbiol.* 27, 347–359, 2010.
- Kaiser PO et al., Bartonella spp.: throwing light on uncommon human infections. *Int. J. Med. Microbiol.* 30, 7–15, 2011.
- Kempf V, Autenrieth I, Bartonella spp. und Afipia spp. In: Neumeister B et al. (eds.), *Mikrobiologische Diagnostik*. Thieme Verlag, Stuttgart, 2010.
- Koehler JE, Glaser CA, Tappero JW, Rochalimaea henselae infection: A new zoonosis with the domestic cat as reservoir. *JAMA* 271, 531–535, 1994.
- Löscher T, Bartonellose, Ehrlichiosen und Anaplasmose. In: Löscher T, Burchard GD (eds.), *Tropenmedizin in Klinik und Praxis*. Thieme Verlag, Stuttgart, 2011.
- Regnery R, Tappero J, Unraveling mysteries associated with cat-scratch disease, bacillary angiomatosis, and related syndromes. *Emerg. Infect. Dis.* 1, 16–21, 1995.
- Straubinger R, Gattung Bartonella. In: Selbitz HJ, Truyen U, Valentin-Weigand P (eds.), *Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre*. Ferdinand Enke Verlag, Stuttgart, 2011.

2.3 Borreliosen

2.3.1 Lyme Borreliose

- Bosler E (ed.), Basic and clinical approaches to Lyme disease. *Clin. Infect. Dis.* 25, Suppl 1, S1–S75, 1997.
- Burgdorfer W et al., Lyme disease – a tick borne spirochetosis? *Science* 216, 137–139, 1982.
- DIN Normenausschuss Medizin. DIN 58969-44. *Medizinische Mikrobiologie-Serologische und molekularbiologische Diagnostik von Infektionskrankheiten. Teil 44: Immunoblot; Spezielle Anforderungen für den Nachweis von Antikörpern gegen Borrelia burgdorferi*. Beuth, Berlin 1–20, 2005.
- Gern L, Humair PF, Ecology of Borrelia burgdorferi sensu lato in Europe. In: Gray JS et al. (eds.), *Lyme-Borreliosis Biology, Epidemiology and Control*. CABI publishing, UK, 149–174, 2002.
- Hassler D, Klinik, Diagnostik und Therapie der Lyme-Borreliose. In: Kimmig P, Braun R, Hassler D (eds.), *Zecken*. Verlag Lühbe, 2001.
- Hassler D, Phasengerechte Therapie der Lyme-Borreliose. *Chemotherapie J.* 15, 106–111, 2006.
- Hassler D, Ehrfeld H, Zappe H, Cefotaxime: An effective treatment for chronic Lyme-Borreliosis – validated by long-term monitoring. 20th Int. Congr. Chemotherapy (ICC), Sidney, Australia, 1997.
- Hassler D et al., Disappearance of specific immune response after treatment of chronic Lyme borreliosis. *Int. J. Med. Microbiol.* 292, Suppl. 34, 2003.
- Kalish RA et al., Evaluation of study patients with Lyme disease, 10–20-year follow-up. *J. Infect. Dis.* 183, 453–460, 2001.
- Kalish RA et al., Persistence of immunoglobulin M or immunoglobulin G antibody responses to Borrelia burgdorferi 10–20 years after active Lyme disease. *Clin. Infect. Dis.* 33, 780–785, 2001.
- Kurtenbach K et al., Borrelia burgdorferi sensu lato in vertebrate hosts. In: Gray JS et al. (eds.), *Lyme-Borreliosis Biology, Epidemiology and Control*. CABI publishing, UK, 117–128, 2002.
- Matuschka FR et al., Amplifying role of edible dormice in Lyme-disease transmission in central Europe. *J. Infect. Dis.* 170, 122–127, 1994.

- Nadelman RB et al., Prophylaxis with single-dose doxycycline for the prevention of Lyme disease after an Ixodes scapularis tick bite. *New Engl. J. Med.* 345, 79–84, 2001.
- Nadelman RB, Wormser GP, Lyme borreliosis. *Lancet* 352, 557–565, 1998.
- Oehme R et al., Transmission risk of *Borrelia burgdorferi* sensu lato from Ixodes ricinus ticks to humans in southwest Germany. VIII. International Conference on Lyme Borreliosis and other emerging tick borne-diseases, München, 1999.
- Petersen LR et al., Epidemiological and clinical features of 1149 persons with Lyme disease identified by laboratory based-surveillance in Connecticut. *Yale J. of Biology and Medicine* 62, 253–262, 1989.
- Pfister HW, Rupprecht TA, Clinical aspects of neuroborreliosis and post-Lyme disease syndrome in adult patients. *Int J. Med. Microbiol.* 296, Suppl. 40, 11–16, 2006.
- Rauer S et al., Leitlinien für Diagnostik und Therapie in der Neurologie. Ed.: Kommission „Leitlinien der Deutschen Gesellschaft für Neurologie“. Thieme Verlag, Stuttgart, 2005.
- Reed KD, Laboratory testing for Lyme disease: Possibilities and practicalities. *J. Clin. Microbiol.* 40, 319–324, 2002.
- Schwan TG, Piesman J, Vector interactions and molecular adaptations of Lyme disease and relapsing fever spirochetes associated with transmission by ticks. *Emerg. Infect. Dis.* 8, 115–121, 2002.
- Selbitz HJ, Truyen U, Valentin-Weigand P (ed.), Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre. Ferdinand Enke Verlag, Stuttgart, 2011.
- Shapiro ED, Gerber MA, Lyme disease. *Clin. Infect. Dis.* 31, 533–542, 2000.
- Steere AC, Lyme disease. *New Engl. J. Med.* 345, 115–125, 2001.
- Stanek G, Borreliosen. In: Aspöck H, Denisia A (eds.), *Krank durch Arthropoden.* 30, 605–624, 2010.
- Stanek G et al., Isolation of *Borrelia burgdorferi* from the myocardium of a patient with longstanding cardiomyopathy. *N. Engl. J. Med.* 322, 249–252, 1990.
- Wilske B, Fingerle V, *Borrelia* spp. In: Neumeister B et al. (eds.), *Mikrobiologische Diagnostik.* Thieme Verlag, Stuttgart, 2010.
- Wormser GP et al., Practice guidelines for the treatment of Lyme disease. *Clin. Infect. Dis.* 31, Suppl. 1, 1–14, 2000.

2.3.2 Rückfallfieber

- Assous MV, Willamamowski A, Relapsing fever borreliosis in Eurasia- forgotten but certainly not gone. *Clin. Microbiol. Infect* 15, 407–414, 2009.
- Barbour AG, Restrepo BI, Antigenic variation in vector-borne pathogens. *Emerg. Infect. Dis.* 6, 449–457, 2000.
- Bunikis J et al., Typing of *Borrelia* relapsing fever group strains. *Emerg. Infect. Dis.* 10, 1661–1664, 2004.
- Cadavid D, Barbour AG, Neuroborreliosis during relapsing fever: Review of the clinical manifestations, pathology, and treatment of infections of humans and experimental animals. *Clin. Infect. Dis.* 26, 151–164, 1998.
- Cutler SJ, Possibilities for relapsing fever re-emergence. *Emerg. Infect. Dis.* 12, 369–374, 2006.
- Cutler SJ, Abdissa M, Trape JF, New concepts for the old challenge of African relapsing fever borreliosis. *Clin. Microbiol. Infect.*, 15, 400–406, 2009.
- Dworkin MS et al., Tick borne relapsing fever. *Infect. Dis. Clin. North. Am.* 22, 449–468, 2008.
- Knobloch J, Rückfallfieber. In: Löscher T, Burchard GD (eds.), *Tropenmedizin in Klinik und Praxis.* Thieme Verlag, Stuttgart, 2010.
- Larsson C et al., Persistent brain infection and disease reactivation in relapsing fever borreliosis. *Microbes Infect.* 8, 2213–2219, 2006.
- Larsson C, Andersson M, Bergström S, Current issues in relapsing fever. *Curr. Opin. Infect. Dis.* 22, 443–449, 2009.
- Schwan TG, Piesman J, Vector interactions and molecular adaptations of Lyme disease and relapsing fever spirochetes associated with transmission by ticks. *Emerg. Infect. Dis.* 8, 115–121, 2002.
- Stanek G, Borreliosen. In: *Krank durch Arthropoden.* Aspöck A, Denisia H, 30, 605–624, 2010.
- Schwan TG et al., Diversity and distribution of *Borrelia hermsii.* *Emerg. Infect. Dis.* 13, 436–442, 2007.
- Scott JC, Typing African relapsing fever spirochetes. *Emerg. Infect. Dis.* 11, 1722–1729, 2005.

Selbitz HJ et al. (eds.), Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre. Ferdinand Enke Verlag, Stuttgart, 2011.

2.4 Brucellosen

Anonymous, Manual of Diagnostic Tests and Vaccines for Terrestrial Animals. World Organization for Animal Health, 2010.

Araj GF, Update on laboratory diagnosis of human brucellosis. *Int. J. Antimicrob. Agents* 36 Suppl 1, S12–17, 2010.

Baldi P et al., Serological follow-up of human brucellosis by measuring IgG antibodies to lipopolysaccharide and cytoplasmic proteins of *Brucella* species. *Clin. Infect. Dis.* 22, 446–455, 1996.

Bannatyne RM, Jackson MC, Memish Z, Rapid diagnosis of *Brucella* bacteremia by using the BACTEC 9240 system. *J. Clin. Microbiol.* 35, 2673–2674, 1997.

Batchelor BI et al., Biochemical mis-identification of *Brucella melitensis* and subsequent laboratory-acquired infections. *J. Hosp. Infect.* 22, 159–162, 1992.

Blasco JM, Molina-Flores B, Control and eradication of *Brucella melitensis* infection in sheep and goats. *Vet. Clin. North Am. Food Anim. Pract.* 27, 95–104, 2011.

Buzgan T et al., Clinical manifestations and complications in 1028 cases of brucellosis: a retrospective evaluation and review of the literature. *Int. J. Infect. Dis.* 14, e469–478, 2010.

Carvalho Neta AV et al., Pathogenesis of bovine brucellosis. *Vet. J.* 184, 146–155, 2010.

Corbel MJ, *Brucellosis in humans and animals*. World Health Organization, Geneva, 2006.

Drancourt M, Brouqui P, Raoult D, *Afipia clevelandensis* antibodies and cross-reactivity with *Brucella* spp. and *Yersinia enterocolitica* O:9. *Clin. Diagn. Lab. Immunol.* 4, 748–752, 1997.

Ferreira L et al., Identification of *Brucella* by MALDI-TOF mass spectrometry. Fast and reliable identification from agar plates and blood cultures. *PLoS ONE* 5, e14235, 2010.

Foster G et al., *Brucella ceti* sp. nov. and *Brucella pinnipedialis* sp. nov. for *Brucella* strains with cetaceans and seals as their preferred hosts. *Int. J. Syst. Evol. Microbiol.* 57, 2688–2693, 2007.

Martin-Mazuelos E et al., Outbreak of *Brucella melitensis* among microbiology laboratory workers. *J. Clin. Microbiol.* 32, 2035–2036, 1994.

Mayer-Scholl A et al., Advancement of a multiplex PCR for the differentiation of all currently described *Brucella* species. *J. Microbiol. Methods* 80, 112–114, 2010.

Nielsen K et al., *Salmonella enterica* serotype Urbana interference with brucellosis serology. *J. Immunoassay Immunochem.* 28, 289–296, 2007.

Palanduz A et al., Brucellosis in a mother and her young infant: probable transmission by breast milk. *Int. J. Infect. Dis.* 4, 55–56, 2000.

Pappas G, The changing *Brucella* ecology: novel reservoirs, new threats. *Int. J. Antimicrob. Agents* 36, Suppl 1, S8–11, 2010.

Pappas G et al., Brucellosis. *N. Engl. J. Med.* 352, 2325–2336, 2005.

Probst C, Kubitzka H, Tiergesundheitsjahresbericht 2009. Friedrich-Loeffler-Institut, Greifswald-Insel Riems, 2010.

Scholz HC et al., *Brucella microti* sp. nov., isolated from the common vole *Microtus arvalis*. *Int. J. Syst. Evol. Microbiol.* 58, 375–382, 2008.

Scholz H et al., *Brucella inopinata* sp. nov., isolated from a breast implant infection. *Int. J. Syst. Evol. Microbiol.* 60, 801–808, 2010.

Solera J, Update on brucellosis: therapeutic challenges. *Int. J. Antimicrob. Agents* 36, Suppl 1, S18–20, 2010.

Solera J et al., Brucellar spondylitis: review of 35 cases and literature survey. *Clin. Infect. Dis.* 29, 1440–1449, 1999.

Von Graevenitz A, Colla F, Thyreoiditis due to *Brucella melitensis* – Report of two cases. *Infection* 18, 179–180, 1990.

Whatmore AM et al., Marine mammal *Brucella* genotype associated with zoonotic infection. *Emerg. Infect. Dis.* 14, 517–518, 2008.

Young EJ, An overview of human brucellosis. *Clin. Infect. Dis.* 21, 283–289, 1995.

2.5 Campylobacteriosen

Altekruse SF et al., *Campylobacter jejuni* – an emerging foodborne pathogen. *Emerg. Infect. Dis.* 5, 28–35, 1999.

Anonymous, Antibiotikaresistenz in der Humanmedizin. In: GERMAP 2008. Antibiotika-

- Resistenz und -Verbrauch. Ed.: Bundesamt für Verbraucherschutz und Lebensmittelsicherheit, Berlin; Paul-Ehrlich-Gesellschaft für Chemotherapie e.V., Rheinbach; Infektiologie Freiburg, Medizinische Universitätsklinik, Freiburg. Verlag: Antiinfectives Intelligence, Gesellschaft für klinisch-mikrobiologische Forschung und Kommunikation mbH, Rheinbach, 2008.
- Bell JA, Manning DD, Reproductive failure in mink and ferrets after intravenous or oral inoculation of *Campylobacter jejuni*. *Can. J. Vet. Res.* 54, 432–437, 1990.
- Black RE et al., Experimental *Campylobacter jejuni* infection in humans. *J. Infect. Dis.* 157, 472–479, 1988.
- Coker AO et al., Human campylobacteriosis in developing countries. *Emerg. Infect. Dis.* 8, 237–244, 2002.
- Cone LA et al., Cellulitis and septic arthritis caused by *Campylobacter fetus* and *Campylobacter jejuni*: report of 2 cases and review of the literature. *J. Clin. Rheumatol.* 9, 362–369, 2003.
- Debruyne L, Gevers D, Vandamme P, Taxonomy of the family *Campylobacteriaceae*. In: Nachamkin I, Szymanski CM, Blaser M, *Campylobacter*. ASM Press, Washington DC, USA, 2008.
- Drenthen J et al., Guillain-Barre syndrome subtypes related to *Campylobacter* infection. *J. Neurol. Neurosurg. Psychiatry* 82, 300–305, 2011.
- EFSA, The European Union Summary Report on Trends and Sources of Zoonoses, Zoonotic Agents and Food-borne Outbreaks in 2009. *The EFSA Journal* 9, 2090, 2011.
- Endtz HP et al., Molecular characterization of *Campylobacter jejuni* from patients with Guillain-Barre and Miller-Fisher syndromes. *J. Clin. Microbiol.* 38, 2297–2301, 2000.
- Engberg J et al., Quinolone and macrolide resistance in *Campylobacter jejuni* and *C. coli*: resistance mechanisms and trends in human isolates. *Emerg. Infect. Dis.* 7, 24–34, 2001.
- Fujihara N et al., A case of perinatal sepsis by *Campylobacter fetus* subsp. *fetus* infection successfully treated with carbapenem – case report and literature review. *J. Infect.* 53, e199–202, 2006.
- Gonzalez I et al., Specific identification of the enteropathogens *Campylobacter jejuni* and *Campylobacter coli* by using a PCR test based on the *ceuE* gene encoding a putative virulence determinant. *J. Clin. Microbiol.* 35, 759–763, 1997.
- Gorkiewicz G et al., Transmission of *Campylobacter hyointestinalis* from a pig to a human. *J. Clin. Microbiol.* 40, 2601–2605, 2002.
- Gorkiewicz G et al., A genomic island defines subspecies-specific virulence features of the host-adapted pathogen *Campylobacter fetus* subsp. *venerealis*. *J. Bacteriol.* 192, 502–517, 2010.
- Hara-Kudo Y, Takatori K, Contamination level and ingestion dose of foodborne pathogens associated with infections. *Epidemiol. Infect.* 1–6, 2010.
- Kiehlbauch J et al., *Campylobacter butzleri* sp. nov. isolated from humans and animals with diarrheal illness. *J. Clin. Microbiol.* 29, 376–385, 1991.
- Kuschner RA Thomas et al., Use of azithromycin for the treatment of *Campylobacter* enteritis in travelers to Thailand, an area where ciprofloxacin resistance is prevalent. *Clin. Infect. Dis.* 21, 536–541, 1995.
- Nachamkin I, Allos BM, Ho T, *Campylobacter* species and Guillain-Barre syndrome. *Clin. Microbiol. Rev.* 11, 555–567, 1998.
- Odendaal MW et al., First isolation of *Campylobacter jejuni* from the vaginal discharge of three bitches after abortion in South Africa. *Onderstepoort J. Vet. Res.* 61, 193–195, 1994.
- Pope J et al., *Campylobacter* reactive arthritis: a systematic review. *Semin. Arthritis Rheum.* 37, 48–55, 2007.
- Robinson DA, Infective dose of *Campylobacter jejuni* in milk. *Br. Med. J. (Clin. Res. Ed.)* 282, 1584, 1981.
- Salama SM, Garcia MM, Taylor DE, Differentiation of the subspecies of *Campylobacter fetus* by genomic sizing. *Int. J. Syst. Bacteriol.* 42, 446–450, 1992.
- Scallan E et al., Foodborne illness acquired in the United States – major pathogens. *Emerg. Infect. Dis.* 17, 7–15, 2011.
- Stuart TL et al., *Campylobacteriosis* outbreak associated with ingestion of mud during a mountain bike race. *Epidemiol. Infect.* 138, 1695–1703, 2010.

2.6 Chlamydiosen

- Anonymous, Compendium of measures to control Chlamydia psittaci infection among humans (Psittacosis) and pet birds (Avian Chlamydiosis). National Association of State Public Health Veterinarians, Reynoldsburg, Ohio, 2008.
- CDC, Compendium of measures to control Chlamydia psittaci infection among humans (psittacosis) and pet birds (avian chlamydiosis). Morbid. Mortal. Wkl. Rep. 49(RR8), 2000.
- Cotton MM, Partridge MR, Infection with feline Chlamydia psittaci. Thorax 53, 75–76, 1998.
- Everett KD, Bush RM, Andersen AA, Emended description of the order Chlamydiales, proposal of Parachlamydiaceae fam. nov. and Simkaniaceae fam. nov., each containing one monotypic genus, revised taxonomy of the family Chlamydiaceae, including a new genus and five new species, and standards for the identification of organisms. Int. J. Syst. Bacteriol. 49 Pt 2, 415–440, 1999.
- Fraeyman A et al., Atypical pneumonia due to Chlamydia psittaci: 3 case reports and review of literature. Acta Clin. Belg. 65, 192–196, 2010.
- Geens T, Sequencing of the Chlamydia psittaci ompA gene reveals a new genotype, E/B, and the need for a rapid discriminatory genotyping method. J. Clin. Microbiol. 43, 2456–2461, 2005.
- Greub G, International Committee on Systematics of Prokaryotes. Subcommittee on the taxonomy of the Chlamydiae: minutes of the closed meeting, 21 June 2010, Hof bei Salzburg, Austria. Int. J. Syst. Evol. Microbiol. 60, 2694, 2010.
- Hadley K et al., Ovine chlamydiosis in an abattoir worker. J. Infect. 25, Suppl 1, 105–109, 1992.
- Horn H, Phylum XXIV. Chlamydiae Garrity and Holt 2001. In: Krieg NR et al., Bergey's Manual of Systematic Bacteriology. Springer, New York, Dordrecht, Heidelberg, London, 2011.
- Hughes C et al., Possible nosocomial transmission of psittacosis. Infect. Control Hosp. Epidemiol. 18, 165–168, 1997.
- Ito I et al., Familial cases of psittacosis: possible person-to-person transmission. Intern. Med. 41, 580–583, 2002.
- Kaleta EF, Taday EM, Avian host range of Chlamydia spp. based on isolation, antigen detection and serology. Avian Pathol. 32, 435–461, 2003.
- Messmer TO et al., Application of a nested, multiplex PCR to psittacosis outbreaks. J. Clin. Microbiol. 35, 2043–2046, 1997.
- Mitchell CM et al., Chlamydia pneumoniae is genetically diverse in animals and appears to have crossed the host barrier to humans on (at least) two occasions. PLoS Pathog. 6, e1000903, 2010.
- Pantchev A et al., New real-time PCR tests for species-specific detection of Chlamydia psittaci and Chlamydia abortus from tissue samples. Vet. J. 181, 145–150, 2009.
- Pantchev A et al., Detection of all Chlamydia spp. of veterinary interest using species-specific real-time PCR assays. Comp. Immunol. Microbiol. Infect. Dis. 33, 473–484, 2010.
- Pospischil A et al., Abortion in woman caused by caprine Chlamydia abortus (Chlamydia psittaci serovar 1). Swiss Med. Wkly. 132, 64–66, 2002.
- RKI, RKI-Ratgeber für Ärzte. Chlamydiosen (Teil 2): Erkrankungen durch Chlamydia psittaci, Chlamydia pneumoniae und Simkania negevensis. Robert Koch-Institut, Berlin, 2010.
- Senn L, Hammerschlag MR, Greub G, Therapeutic approaches to Chlamydia infections. Expert Opin. Pharmacother. 6, 2281–2290, 2005.
- Sprague LD et al., The detection of Chlamydia psittaci genotype C infection in dogs. Vet. J. 181, 274–279, 2009.
- Teankum K et al., Prevalence of chlamydiae in semen and genital tracts of bulls, rams and bucks. Theriogenology 67, 303–310, 2007.
- Vanrompay D, Ducatelle R, Haesebrouck F, Chlamydia psittaci infections: a review with emphasis on avian chlamydiosis. Vet. Microbiol. 45, 93–119, 1995.
- Vanrompay D et al., Chlamydia psittaci transmission from pet birds to humans. Emerg. Infect. Dis. 13, 1108–1110, 2007.
- Verweij PE et al., Severe human psittacosis requiring artificial ventilation: case report and review. Clin. Infect. Dis. 20, 440–442, 1995.
- Walder G et al., An unusual cause of sepsis during pregnancy: recognizing infection

with *Chlamydia abortus*. *Obstet. Gynecol.* 106, 1215–1217, 2005.

Walder G et al., *Chlamydia abortus* pelvic inflammatory disease. *Emerg. Infect. Dis.* 9, 1642–1644, 2003.

2.7 Ehrlichiosen/Anaplasmosen

Bakken JS et al., The serological response of patients infected with the agent of human granulocytic ehrlichiosis. *Clin. Infect. Dis.* 34, 22–27, 2002.

Bakken JS, Dumler S, Clinical diagnosis and treatment of human granulocytotropic anaplasmosis. *Ann. N. Y. Acad. Sci.* 1078, 236–247, 2006.

Bakken JS, Dumler S, Human granulocytic anaplasmosis. *Infect. Dis. Clin. North. Am.* 22, 433–448, 2008.

Buller RS et al., *Ehrlichia ewingii*, a newly recognized agent of human ehrlichiosis. *New Engl. J. Med.* 341, 148–155, 1999.

Doudier B et al., Factors contributing to emergence of *Ehrlichia* and *Anaplasma* spp. as human pathogens. *Vet. Parasitol.* 167, 149–154, 2010.

Dumler JS et al., Reorganization of genera in the families Rickettsiaceae and Anaplasmataceae in the order Rickettsiales: unification of some species of *Ehrlichia* with *Anaplasma*, *Cowdria* with *Ehrlichia* and *Ehrlichia* with *Neorickettsia*, descriptions of six new species combinations and designation of *Ehrlichia equi* and „HGE agent“ as subjective synonyms of *Ehrlichia phagocytophila*. *Int. J. Syst. Evol. Microbiol.* 51, 2145–2165, 2001.

Dumler JS et al., Ehrlichioses in humans: epidemiology, clinical presentation, diagnosis and treatment. *Clin. Infect. Dis.* 15, Suppl. 1, 45–51, 2007.

Horowitz HW et al., Antimicrobial susceptibility of *Ehrlichia phagocytophila*. *Antimicrob. Agents Chemother.* 45, 786–788, 2001.

Ismail N, Bloch KC, McBride JW, Human Ehrlichiosis and Anaplasmosis. *Clin. Lab. Med.* 30, 261–292, 2010.

Löscher T, Bartonelosen, Ehrlichiosen und Anaplasmosen. In: Löscher T, Burchard GD (Hrsg.), *Tropenmedizin in Klinik und Praxis*. Thieme Verlag, Stuttgart, 2011.

Paddock CD et al., Infections with *Ehrlichia chaffeensis* and *Ehrlichia ewingii* in per-

sons coinfecting with human immunodeficiency virus. *Clin. Infect. Dis.* 33, 1586, 2001.

Paddock CD, Childs JE, *Ehrlichia chaffeensis*: a prototypical emerging pathogen. *Clin. Microbiol. Rev.* 16, 37–64, 2003.

Ramsey AH et al., Outcomes of treated human granulocytic ehrlichiosis cases. *Emerg. Infect. Dis.* 8, 398–401, 2002.

Standaert SM et al., Primary isolation of *Ehrlichia chaffeensis* from patients with febrile illnesses: clinical and molecular characteristics. *J. Infect. Dis.* 181, 1082–1088, 2000.

Strle F, Human granulocytic ehrlichiosis in Europe. *Int. J. Med. Microbiol.* 293, Suppl. 37, 27–35, 2004.

Unver A et al., Western blot analysis of sera reactive to human monocytic ehrlichiosis and human granulocytic ehrlichiosis agents. *J. Clin. Microbiol.* 39, 3982–3986, 2001.

Straubinger RK, *Ehrlichia*. In: Selbitz HJ, Truyen U, Valentin-Weigand P (ed.), *Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre*. Ferdinand Enke Verlag, Stuttgart, 2011.

Walker DH and the Task Force on Consensus Approach for Ehrlichiosis: Diagnosing human ehrlichioses: current status and recommendations. *ASM News* 66, 287–290, 2000.

2.8 Enterohämorrhagische *Escherichia coli* (EHEC)-Infektionen

Besser RE et al., An outbreak of diarrhea and hemolytic uremic syndrome from *Escherichia coli* O157:H7 in fresh-pressed apple cider. *JAMA* 269, 2217–2220, 1993.

Beutin L et al., Characterization of Shiga toxin-producing *Escherichia coli* strains isolated from human patients in Germany over a 3-year period. *J. Clin. Microbiol.* 42, 1099–1108, 2004.

Brzuszkiewicz E et al., Genome sequence analyses of two isolates from the recent *Escherichia coli* outbreak in Germany reveal the emergence of a new pathotype: Enterohemorrhagic-Enterohemorrhagic *Escherichia coli* (EAHEC). *Arch Microbiol* [Epub ahead of print] 2011.

Chapman PA, Cornell J, Green C, Infection with verocytotoxin-producing *Escherichia coli* O157 during a visit to an inner city

- open farm. *Epidemiol. Infect.* 125, 531–536, 2000.
- Cowan LA et al., Clinical and clinicopathologic abnormalities in greyhounds with cutaneous and renal glomerular vasculopathy: 18 cases (1992–1994). *J. Am. Vet. Med. Assoc.* 210, 789–793, 1997.
- Croxen MA, Finlay BB, Molecular mechanisms of *Escherichia coli* pathogenicity. *Nat. Rev. Microbiol.* 8, 26–38, 2010.
- Deutsche Gesellschaft für Infektiologie e.V., EHEC infection and antibiotic therapy. 2011.
- Dundas S et al., The central Scotland *Escherichia coli* O157:H7 outbreak: risk factors for the hemolytic uremic syndrome and death among hospitalized patients. *Clin. Infect. Dis.* 33, 923–931, 2001.
- EFSA, E. C. f. D. P. a. Control: The European Union Summary Report on Trends and Sources of Zoonoses, Zoonotic Agents and Food-borne Outbreaks in 2009. *EFSA Journal* 2011 9, 2090, 2011.
- Fratamico P et al., Prevalence and characterization of shiga toxin-producing *Escherichia coli* in swine feces recovered in the National Animal Health Monitoring System's Swine 2000 study. *Appl. Environ. Microbiol.* 70, 7173–7178, 2004.
- Garcia A et al., A naturally occurring rabbit model of enterohemorrhagic *Escherichia coli*-induced disease. *J. Infect. Dis.* 186, 1682–1686, 2002.
- Kaper JB, Nataro JP, Mobley HL., Pathogenic *Escherichia coli*. *Nat. Rev. Microbiol.* 2, 123–140, 2004.
- Karch H, Mellmann A, Bielaszewska M, Epidemiology and pathogenesis of enterohemorrhagic *Escherichia coli*. *Berl. Munch. Tierarztl. Wochenschr.* 122, 417–424, 2009.
- Karch H, Tarr PI, Bielaszewska M, Enterohemorrhagic *Escherichia coli* in human medicine. *Int. J. Med. Microbiol.* 295, 405–418, 2005.
- Mellmann A et al., Analysis of collection of hemolytic uremic syndrome-associated enterohemorrhagic *Escherichia coli*. *Emerg. Infect. Dis.* 14, 1287–1290, 2008.
- O'Brien SJ, Adak GK, Gilham C, Contact with farming environment as a major risk factor for Shiga toxin (Vero cytotoxin)-producing *Escherichia coli* O157 infection in humans. *Emerg. Infect. Dis.* 7, 1049–1051, 2001.
- Orth D et al., Cytolethal distending toxins in Shiga toxin-producing *Escherichia coli*: alleles, serotype distribution and biological effects. *J. Med. Microbiol.* 55, 1487–1492, 2006.
- Paton AW, Paton JC, *Escherichia coli* Subtilase Cytotoxin. *Toxins (Basel)* 2, 215–228, 2010.
- Persson S et al., Subtyping method for *Escherichia coli* shiga toxin (verocytotoxin) 2 variants and correlations to clinical manifestations. *J. Clin. Microbiol.* 45, 2020–2024, 2007.
- RKI, Infektionsepidemiologisches Jahrbuch meldepflichtiger Krankheiten für 2009. Robert Koch-Institut, Berlin, 2010.
- Schmidt MA, LEEways: tales of EPEC, ATEC and EHEC. *Cell. Microbiol.* 12, 1544–1552, 2010.
- Tarr PI, Gordon CA, Chandler WL, Shiga-toxin-producing *Escherichia coli* and haemolytic uraemic syndrome. *Lancet* 365, 1073–1086, 2005.
- Trevena WB et al., Vero cytotoxin-producing *Escherichia coli* O157 associated with companion animals. *Vet. Rec.* 138, 400, 1996.
- Yukioka H, Kurita S, *Escherichia coli* O157 infection disaster in Japan, 1996. *Eur. J. Emerg. Med.* 4, 165, 1997.
- Erickson MC, Doyle MP, Food as a vehicle for transmission of Shiga toxin-producing *Escherichia coli*. *J. Food Prot.* 70, 2426–2449, 2007.

2.9 Leptospirosen

- Agampodi S, Peacock SJ, Thevanesam V, The potential emergence of leptospirosis in Sri Lanka. *Lancet Infect. Dis.* 9, 524–526, 2009.
- Ahmed A et al., Development and validation of a real-time PCR for detection of pathogenic *Leptospira* species in clinical materials. *PLoS ONE* 4, e7093, 2009.
- Anonymous, Human leptospirosis: guidance for diagnosis, surveillance and control. World Health Organization, Geneva, 2003.
- Anonymous, Leptospirosis. World Organization for Animal Health, Paris, 2008.
- Bharti AR et al., Leptospirosis: a zoonotic disease of global importance. *Lancet Infect. Dis.* 3, 757–771, 2003.

- Bolin CA, Koellner P, Human-to-human transmission of *Leptospira interrogans* by milk. *J. Infect. Dis.* 158, 246–247, 1988.
- Bovet P et al., Factors associated with clinical leptospirosis: a population-based case-control study in the Seychelles (Indian Ocean). *Int. J. Epidemiol.* 28, 583–590, 1999.
- Brem S, Radu O, Bauer T, Leptospiren infizierte Rattenpopulationen als wahrscheinliche Ursache eines Morbus Weil mit tödlichem Verlauf. *Berl. Munch. Tierarztl. Wochenschr.* 108, 405–407, 1995.
- CDC, Update: outbreak of acute febrile illness among athletes participating in Eco-Challenge-Sabah 2000-Borneo, Malaysia, 2000. *MMWR Morb. Mortal. Wkly. Rep.* 50, 21–24, 2001.
- Chappel RJ et al., Impact of proficiency testing on results of the microscopic agglutination test for diagnosis of leptospirosis. *J. Clin. Microbiol.* 42, 5484–5488, 2004.
- Dedie K et al., Bakterielle Zoonosen bei Tier und Mensch. Ferdinand Enke Verlag, Stuttgart, 1993.
- Dupont H et al., Leptospirosis: prognostic factors associated with mortality. *Clin. Infect. Dis.* 25, 720–724, 1997.
- Emmanouilides CE, Kohn OF, Garibaldi R, Leptospirosis complicated by a Jarisch-Herxheimer reaction and adult respiratory distress syndrome: case report. *Clin. Infect. Dis.* 18, 1004–1006, 1994.
- Faine S et al., Fatal congenital human leptospirosis. *Zentralbl. Bakteriol. Mikrobiol. Hyg. A* 257, 548, 1984.
- Hartskeerl RA, Collares-Pereira M, Ellis WA, Emergence, control and re-emerging leptospirosis: dynamics of infection in the changing world. *Clin. Microbiol. Infect.* 17, 494–501, 2011.
- Heron LG et al., Leptospirosis presenting as a haemorrhagic fever in a traveller from Africa. *Med. J. Aust.* 167, 477–479, 1997.
- Jansen A et al., Leptospirosis in Germany, 1962–2003. *Emerg. Infect. Dis.* 11, 1048–1054, 2005.
- Katz AR et al., Assessment of the clinical presentation and treatment of 353 cases of laboratory-confirmed leptospirosis in Hawaii, 1974–1998. *Clin. Infect. Dis.* 33, 1834–1841, 2001.
- Koizumi N et al., Serological and genetic analysis of leptospirosis in patients with acute febrile illness in Kandy, Sri Lanka. *Jpn. J. Infect. Dis.* 62, 474–475, 2009.
- Levett PN et al., Leptospirosis. *Clin. Microbiol. Rev.* 14, 296–326, 2001.
- Nardone A et al., Risk factors for leptospirosis in metropolitan France: results of a national case-control study, 1999–2000. *Clin. Infect. Dis.* 39, 751–753, 2004.
- RKI, Die Rückkehr des Feldfiebers in Deutschland: *Leptospira-Grippytyphosa*-Ausbruch unter Erdbeerpfückern. *Epidemiol. Bull.* 11, 85–88, 2008.
- Seijo A et al., Lethal leptospiral pulmonary hemorrhage: an emerging disease in Buenos Aires, Argentina. *Emerg. Infect. Dis.* 8, 1004–1005, 2002.
- Sejvar J et al., Leptospirosis in „Eco-Challenge“ athletes, Malaysian Borneo, 2000. *Emerg. Infect. Dis.* 9, 702–707, 2003.
- Smythe LD, Leptospirosis worldwide, 1999. *Wkly. Epidemiol. Rec.* 74, 237–242, 1999.
- Stephan C et al., Leptospirose-Erkrankungen nach einem Betriebsausflug. *Dtsch. Med. Wochenschr.* 125, 623–627, 2000.
- van Crevel R et al., Leptospirosis in travelers. *Clin. Infect. Dis.* 19, 132–134, 1994.

2.10 Listeriose

- Allerberger F, Wagner M, Listeriosis: a resurgent foodborne infection. *Clin. Microbiol. Infect.* 16, 16–23, 2010.
- Barbuddhe SB et al., Rapid identification and typing of *Listeria* species by matrix-assisted laser desorption ionization-time of flight mass spectrometry. *Appl. Environ. Microbiol.* 74, 5402–5407, 2008.
- Chakraborty T, The molecular mechanisms of actin-based intracellular motility by *Listeria monocytogenes*. *Microbiologia* 12, 237–244, 1996.
- Drevets DA, Bronze MS, *Listeria monocytogenes*: epidemiology, human disease, and mechanisms of brain invasion. *FEMS Immunol. Med. Microbiol.* 53, 151–165, 2008.
- Dussurget O, Pizarro-Cerda J, Cossart P, Molecular determinants of *Listeria monocytogenes* virulence. *Annu. Rev. Microbiol.* 58, 587–610, 2004.
- Freitag NE, Port GC, Miner MD, *Listeria monocytogenes* – from saprophyte to intracellular pathogen. *Nat. Rev. Microbiol.* 7, 623–628, 2009.

- Fretz R et al., Update: Multinational listeriosis outbreak due to „Quargel“, a sour milk curd cheese, caused by two different *L. monocytogenes* serotype 1/2a strains, 2009–2010. *Euro Surveill.* 15, 2010.
- Gasarov U, Hughes D, Hansbro PM, Methods for the isolation and identification of *Listeria* spp. and *Listeria monocytogenes*: a review. *FEMS Microbiol. Rev.* 29, 851–875, 2005.
- Hof H, An update on the medical management of listeriosis. *Expert Opin. Pharmacother.* 5, 1727–1735, 2004.
- Hof H, Szabo K, Becker B, Epidemiologie der Listeriose in Deutschland – im Wandel und dennoch nicht beachtet. *Dtsch. Med. Wochenschr.* 1343–1348, 2007.
- Jackson KA et al., Multistate outbreak of *Listeria monocytogenes* associated with Mexican-style cheese made from pasteurized milk among pregnant, hispanic women. *J. Food Prot.* 74, 949–953, 2011.
- Johnsen BO et al., A large outbreak of *Listeria monocytogenes* infection with short incubation period in a tertiary care hospital. *J. Infect.* 61, 465–470, 2010.
- Koch J et al., Large listeriosis outbreak linked to cheese made from pasteurized milk, Germany, 2006–2007. *Foodborne Pathog. Dis.* 7, 1581–1584, 2010.
- Koch J, Stark L, Significant increase of listeriosis in Germany – epidemiological patterns 2001–2005. *Euro Surveill.* 11, 85–88, 2006.
- Lamont RF et al., Listeriosis in human pregnancy: a systematic review. *J. Perinat. Med.* 39, 227–236, 2011.
- Lianou A, Sofos JN, A review of the incidence and transmission of *Listeria monocytogenes* in ready-to-eat products in retail and food service environments. *J. Food Prot.* 70, 2172–2198, 2007.
- Orndorff PE et al., Host and bacterial factors in listeriosis pathogenesis. *Vet. Microbiol.* 114, 1–15, 2006.
- Orsi RH, den Bakker HC, Wiedmann M, *Listeria monocytogenes* lineages: Genomics, evolution, ecology, and phenotypic characteristics. *Int. J. Med. Microbiol.* 301, 79–96, 2010.
- Perrin M, Bemer M, Delamare C, Fatal case of *Listeria innocua* bacteremia. *J. Clin. Microbiol.* 41, 5308–5309, 2003.
- RKI, Infektionsepidemiologisches Jahrbuch meldepflichtiger Krankheiten für 2009. Robert Koch-Institut, 2010.
- Rocourt J et al., Quantitative risk assessment of *Listeria monocytogenes* in ready-to-eat foods: the FAO/WHO approach. *FEMS Immunol. Med. Microbiol.* 35, 263–267, 2003.
- Thévenot D, Dernburg A, Verzozy-Rozand C, An updated review of *Listeria monocytogenes* in the pork meat industry and its products. *J. Appl. Microbiol.* 101, 7–17, 2006.
- Tsai S et al., Listerial meningitis in a patient with undiagnosed acquired immunodeficiency syndrome: ampicillin should be added to the empirical antibiotic coverage. *Emerg. Med. J.* 23, e50, 2006.
- Vazquez-Boland J, *Listeria* pathogenesis and molecular virulence determinants. *Clin. Microbiol. Rev.* 14, 584–640, 2001.
- Winter P et al., Clinical and histopathological aspects of naturally occurring mastitis caused by *Listeria monocytogenes* in cattle and ewes. *J. Vet. Med. B Infect. Dis. Vet. Public Health* 51, 176–179, 2004.

2.11 Malleus (Rotz)

- Alibasoglu M et al., Malleus-Ausbruch bei Löwen im Zoologischen Garten Istanbul. *Berl. Munch. Tierarztl. Wochenschr.* 99, 57–63, 1986.
- Anonymous, Glanders. The Center for Food Security and Public Health, Iowa State University. <http://www.cfsph.iastate.edu/Factsheets/pdfs/glanders.pdf>. 2007.
- Anonymous, Glanders and Melioidosis, guidelines for action in the event of deliberate release. http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1194947412449. Health Protection Agency, 2008.
- Balder R et al., Identification of *Burkholderia mallei* and *Burkholderia pseudomallei* adhesins for human respiratory epithelial cells. *BMC Microbiol.* 10, 250, 2010.
- Bondi SK, Goldberg JB, Strategies toward vaccines against *Burkholderia mallei* and *Burkholderia pseudomallei*. *Expert Rev. Vaccines*, 7, 1357–1365, 2008.
- Elschner M et al., Use of a Western blot technique for the serodiagnosis of glanders. *BMC Vet. Res.* 7, 4, 2011.
- Estes D et al., Present and future therapeutic strategies for melioidosis and glanders. *Expert Rev. Anti Infect. Ther.* 8, 325–338, 2010.

- Galyov EE, Brett PJ, DeShazer D, Molecular insights into *Burkholderia pseudomallei* and *Burkholderia mallei* pathogenesis. *Annu. Rev. Microbiol.* 64, 495–517, 2010.
- Losada L et al., Continuing evolution of *Burkholderia mallei* through genome reduction and large-scale rearrangements. *Genome Biol. Evol.* 2, 102–116, 2010.
- Mohammad TJ, Sawa MI, Yousif YA, Orchitis in Arab stallion due to *Pseudomonas mallei*. *Indian J. Vet. Med.* 9, 15–17, 1989.
- Rowland CA et al., Protective cellular responses to *Burkholderia mallei* infection. *Microbes Infect.* 12, 846–853, 2010.
- Schmooch G et al., DNA microarray-based detection and identification of *Burkholderia mallei*, *Burkholderia pseudomallei* and *Burkholderia* spp. *Mol. Cell. Probes* 23, 178–187, 2009.
- Srinivasan A et al., Glanders in a military research microbiologist. *N. Engl. J. Med.* 345, 256–258, 2001.
- Verma RD et al., Development of an avidin-biotin dot enzyme-linked immunosorbent assay and its comparison with other serological tests for diagnosis of glanders in equines. *Vet. Microbiol.* 25, 77–85, 1990.
- Whitlock GC, Estes DM, Torres AG, Glanders: off to the races with *Burkholderia mallei*. *FEMS Microbiol. Lett.* 277, 115–122, 2007.
- Draper AD et al., Association of the melioidosis agent *Burkholderia pseudomallei* with water parameters in rural water supplies in Northern Australia. *Appl. Environ. Microbiol.* 76, 5305–5307, 2010.
- Galyov EE, Brett PJ, DeShazer D, Molecular insights into *Burkholderia pseudomallei* and *Burkholderia mallei* pathogenesis. *Annu. Rev. Microbiol.* 64, 495–517, 2010.
- Inglis TJJ, The treatment of melioidosis. *Pharmaceuticals*, 1296–1303, 2010.
- Ip ML et al., Pulmonary melioidosis. *Chest* 108, 1420–1424, 1995.
- Millan JM et al., Clinical variation in melioidosis in pigs with clonal infection following possible environmental contamination from bore water. *Vet. J.* 174, 200–202, 2007.
- Norazah A et al., Indirect hemagglutination antibodies against *Burkholderia pseudomallei* in normal blood donors and suspected cases of melioidosis in Malaysia. *Southeast Asian J. Trop. Med. Public Health* 27, 263–266, 1996.
- Walsh AL et al., Selective broths for the isolation of *Pseudomonas pseudomallei* from clinical samples. *Trans. R. Soc. Trop. Med. Hyg.* 89, 124, 1995.
- White NJ, Melioidosis. *Zentralblatt Bakteriologie* 280, 439–443, 1994.
- Wuthiekanun V et al., Rapid immunofluorescence microscopy for diagnosis of melioidosis. *Clin. Diagn. Lab. Immunol.* 12, 555–556, 2005.

2.12 Melioidose (Pseudorotz)

- Anonym, Melioidose der Lunge: Fallbericht zu einer importierten Erkrankung infolge des Tsunami in Südostasien. *Epidemiologisches Bulletin* 19, 165–168, 2005.
- Cheng AC, Melioidosis: advances in diagnosis and treatment. *Curr. Opin. Infect. Dis.* 23, 554–559, 2010.
- Choy JL et al., Animal melioidosis in Australia. *Acta Trop.* 74, 153–158, 2000.
- Currie BJ et al., Endemic melioidosis in tropical northern Australia: a 10-year prospective study and review of the literature. *Clin. Infect. Dis.* 31, 981–986, 2000.
- Currie BJ, Ward L, Cheng AC, The epidemiology and clinical spectrum of melioidosis: 540 cases from the 20 year Darwin prospective study. *PLoS Negl. Trop. Dis.* 4, e900, 2010.
- Dance DA, Melioidosis: the tip of the iceberg? *Clin. Microbiol. Rev.* 4, 52–60, 1991.

2.13 Milzbrand (Anthrax)

- Alizad A, Ayoub EM, Makki N, Intestinal anthrax in a two-year-old child. *Pediatr. Infect. Dis. J.* 14, 394–395, 1995.
- Baggett HC et al., No evidence of a mild form of inhalational *Bacillus anthracis* infection during a bioterrorism-related inhalational anthrax outbreak in Washington, D.C., in 2001. *Clin. Infect. Dis.* 41, 991–997, 2005.
- Bales ME et al., Epidemiologic response to anthrax outbreaks: field investigations, 1950–2001. *Emerg. Infect. Dis.* 8, 1163–1174, 2002.
- Bartlett JG, Inglesby Jr TV, Borio L, Management of anthrax. *Clin. Infect. Dis.* 35, 851–858, 2002.

- Bell DM, Kozarsky PE, Stephens DS, Clinical issues in the prophylaxis, diagnosis, and treatment of anthrax. *Emerg. Infect. Dis.* 8, 222–225, 2002.
- CDC, Advisory Committee on Immunization Practices: Use of anthrax vaccine in the United States. *MMWR Recomm. Rep.* 49(RR15), 1–20, 2000.
- Cieslak TJ, Eitzen Jr EM, Clinical and epidemiologic principles of anthrax. *Emerg. Infect. Dis.* 5, 552–555, 1999.
- Dixon TC et al., Anthrax. *N. Engl. J. Med.* 341, 815–826, 1999.
- Doganay M, Metan G, Alp EL, A review of cutaneous anthrax and its outcome. *J. Infect. Public Health* 3, 98–105, 2010.
- Friedlander AM, Little SF, Advances in the development of next-generation anthrax vaccines. *Vaccine* 27, Suppl 4, D28–32, 2009.
- Gombe NT et al., Risk factors for contracting anthrax in Kuwirirana ward, Gokwe North, Zimbabwe. *Afr. Health Sci.* 10, 159–164, 2010.
- Hugh-Jones ME, de Vos V, Anthrax and wildlife. *Rev. Sci. Tech.* 21, 359–383, 2002.
- Inglesby TV, Anthrax as a biological weapon: medical and public health management. Working Group on Civilian Biodefense. *JAMA* 281, 1735–1745, 1999.
- Jernigan JA et al., Bioterrorism-related inhalational anthrax: the first 10 cases reported in the United States. *Emerg. Infect. Dis.* 7, 933–944, 2001.
- Knox D et al., Subcutaneous anthrax in three intravenous drug users: a new clinical diagnosis. *J. Bone Joint Surg. Br.* 93, 414–417, 2011.
- McGovern TW, Norton SA, Recognition and management of anthrax. *N. Engl. J. Med.* 346, 943–945, 2002.
- Patra G et al., Molecular characterization of *Bacillus* strains involved in outbreaks of anthrax in France in 1997. *J. Clin. Microbiol.* 36, 3412–3414, 1998.
- Penn CC, Klotz SA, Anthrax pneumonia. *Semin. Respir. Infect.* 12, 28–30, 1997.
- Ramisse V et al., Identification and characterization of *Bacillus anthracis* by multiplex PCR analysis of sequences on plasmids pXO1 and pXO2 and chromosomal DNA. *FEMS Microbiol. Lett.* 145, 9–16, 1996.
- Rao SS, Mohan KV, Atreya CD, Detection technologies for *Bacillus anthracis*: prospects and challenges. *J. Microbiol. Methods* 82, 1–10, 2010.
- Shlyakhov E, Rubinstein E, Evaluation of the anthraxin skin test for diagnosis of acute and past human anthrax. *Eur. J. Clin. Microbiol. Infect. Dis.* 15, 242–245, 1996.
- Sirisanthana T, Brown AE, Anthrax of the gastrointestinal tract. *Emerg. Infect. Dis.* 8, 649–651, 2002.
- Swartz MN, Recognition and management of anthrax – an update. *N. Engl. J. Med.* 345, 1621–1626, 2001.
- Weiss S et al., Antibiotics cure anthrax in animal models. *Antimicrob. Agents Chemother.* 55, 1533–1542, 2011.
- Turnbull P, Anthrax in Humans and Animals. World Health Organization, Food and Agriculture Organization of the United Nations, World Organisation for Animal Health, Geneva, 2008.

2.14 Mykobakterien

2.14.1 Infektionen mit *Mycobacterium* (M.) tuberculosis-Komplex

- Alfredsen S, Saxegaard F, An outbreak of tuberculosis in pigs and cattle caused by *Mycobacterium africanum*. *Vet. Rec.* 131, 51–53, 1992.
- Aranaz A et al., Elevation of *Mycobacterium tuberculosis* subsp. *caprae* Aranaz et al. 1999 to species rank as *Mycobacterium caprae* comb. nov., sp. nov. *Int. J. Syst. Evol. Microbiol.* 53, 1785–1789, 2003.
- Brodhun B et al., Bericht zur Epidemiologie der Tuberkulose in Deutschland für 2009. Robert Koch-Institut, Berlin, 2010.
- Caminero JA et al., Best drug treatment for multidrug-resistant and extensively drug-resistant tuberculosis. *Lancet Infect. Dis.* 10, 621–629, 2010.
- Cosivi O et al., Zoonotic tuberculosis due to *Mycobacterium bovis* in developing countries. *Emerg. Infect. Dis.* 4, 59–70, 1998.
- Cousins DV et al., Tuberculosis in seals caused by a novel member of the *Mycobacterium tuberculosis* complex: *Mycobacterium pinnipedii* sp. nov. *Int. J. Syst. Evol. Microbiol.* 53, 1305–1314, 2003.
- Dalovisio JR, Stetter M, Mikota-Wells S, Rhinoceros' rhinorrhea: cause of an outbreak of infection due to airborne *Mycobacterium bovis* in zookeepers. *Clin. Infect. Dis.* 15, 598–600, 1992.

- De Vos V et al., The epidemiology of tuberculosis in free-ranging African buffalo (*Syn-
cerus caffer*) in the Kruger National Park,
South Africa. *Onderstepoort J. Vet. Res.*
68, 119–130, 2001.
- Delahay RJ et al., The status of *Mycobacterium
bovis* infection in UK wild mammals: a re-
view. *Vet. J.* 164, 90–105, 2002.
- Dheda K et al., Extensively drug-resistant tu-
berculosis: epidemiology and manage-
ment challenges. *Infect. Dis. Clin. North
Am.* 24, 705–725, 2010.
- Eker B et al., Multidrug- and extensively drug-
resistant tuberculosis, Germany. *Emerg.
Infect. Dis.* 14, 1700–1706, 2008.
- Frank W et al., *Mycobacterium microti* – pul-
monary tuberculosis in an immunocom-
petent patient. *Wien. Klin. Wochenschr.*
121, 282–286, 2009.
- Huard R et al., PCR-based method to differen-
tiate the subspecies of the *Mycobacterium
tuberculosis* complex on the basis of ge-
nomic deletions. *J. Clin. Microbiol.* 41,
1637–1650, 2003.
- Kiers A et al., Transmission of *Mycobacterium
pinnipedii* to humans in a zoo with ma-
rine mammals. *Int. J. Tuberc. Lung Dis.*
12, 1469–1473, 2008.
- Kubica T, Rüscher-Gerdes S, Niemann S, Myco-
bacterium *bovis* subsp. *caprae* caused one-
third of human *M. bovis*-associated tuber-
culosis cases reported in Germany be-
tween 1999 and 2001. *J. Clin. Microbiol.*
41, 3070–3077, 2003.
- Michalak K et al., *Mycobacterium tuberculosis*
infection as a zoonotic disease: transmis-
sion between humans and elephants.
Emerg. Infect. Dis. 4, 283–287, 1998.
- Miltgen J et al., Two cases of pulmonary tubercu-
losis caused by *Mycobacterium tuberculo-
sis* subsp. *canetti*. *Emerg. Infect. Dis.* 8,
1350–1352, 2002.
- Montali RJ, Mikota SK, Cheng LI, *Mycobacte-
rium tuberculosis* in zoo and wildlife spe-
cies. *Rev. Sci. Tech.* 20, 291–303, 2001.
- Niemann S, Richter E, Rüscher-Gerdes S, Bioche-
mical and genetic evidence for the trans-
fer of *Mycobacterium tuberculosis* subsp.
caprae Aranaz et al. 1999 to the species
Mycobacterium bovis Karlson and Lessel
1970 (approved lists 1980) as *Mycobacte-
rium bovis* subsp. *caprae* comb. nov. *Int. J.
Syst. Evol. Microbiol.* 52, 433–436, 2002.
- Nishi JS, Shury T, Elkin BZ, Wildlife reservoirs
for bovine tuberculosis (*Mycobacterium
bovis*) in Canada: strategies for manage-
ment and research. *Vet. Microbiol.* 112,
325–338, 2006.
- Oh P et al., Human exposure following Myco-
bacterium tuberculosis infection of multi-
ple animal species in a Metropolitan Zoo.
Emerg. Infect. Dis. 8, 1290–1293, 2002.
- Reddington K et al., A novel multiplex real-
time PCR for the identification of myco-
bacteria associated with zoonotic tubercu-
losis. *PLoS ONE* 6, e23481, 2011.
- Schmidt V et al., Transmission of tuberculosis
between men and pet birds: a case report.
Avian Pathol. 37, 589–592, 2008.
- Sougakoff W, Molecular epidemiology of mul-
tidrug-resistant strains of *Mycobacterium
tuberculosis*. *Clin. Microbiol. Infect.* 17,
800–805, 2011.
- Warren R et al., Use of spoligotyping for accu-
rate classification of recurrent tuberculo-
sis. *J. Clin. Microbiol.* 40, 3851–3853,
2002.
- WHO, Global tuberculosis control. WHO re-
port 2010. World Health Organization,
Geneva 2010.

2.14.2 Infektionen mit *Mycobacterium marinum*

- Cheung JP et al., Review article: *Mycobacte-
rium marinum* infection of the hand and
wrist. *J. Orthop. Surg. (Hong Kong)* 18,
98–103, 2010.
- Esteban J, Ortiz-Pérez A, Current treatment of
atypical mycobacteriosis. *Expert Opin.
Pharmacother.* 10, 2787–2799, 2009.
- Falkinham JO 3rd, Epidemiology of infection
by nontuberculous mycobacteria. *Clin.
Microbiol. Rev.* 9, 177–215, 1996.
- Gray SF et al., Fish tank granuloma. *BMJ* 300,
1069–1070, 1990.
- Jacobs JM et al., A review of mycobacteriosis in
marine fish. *J. Fish Dis* 32, 119–130, 2009.
- Jernigan JA, Farr BM. Incubation period and
sources of exposure for cutaneous Myco-
bacterium *marinum* infection: case report
and review of the literature. *Clin. Infect.
Dis.* 31, 439–443, 2000.
- Lacaille F et al., Persistent *Mycobacterium ma-
rinum* infection in a child with probable
visceral involvement. *Pediatr. Infect. Dis.*
J. 9, 58–60, 1990.
- Macek P et al., *Mycobacterium marinum* Epi-
didymoorchitis: Case Report and Litera-
ture Review. *Urol. Int.* 87, 120–124, 2011.

- Nenoff P et al., Kutane Infektionen durch *Mycobacterium marinum*. *Hautarzt* 62, 266–271, 2011.
- Rallis E, Koumantaki-Mathioudaki E, Treatment of *Mycobacterium marinum* cutaneous infections. *Expert Opin. Pharmacother.* 8, 2965–2978, 2007.
- Streit M et al., Disseminated *Mycobacterium marinum* infection with extensive cutaneous eruption and bacteremia in an immunocompromised patient. *Eur. J. Dermatol.* 16, 79–83, 2006.

2.14.3 Mykobakterien-Infektionen, die als Zoonosen diskutiert werden

2.14.3.1 Infektionen mit *Mycobacterium avium*

- Anonymous, *Mycobacteriosis* (Fact sheet). Center for Food Security And Public Health, Iowa, USA, 2006.
- Biet F et al., Zoonotic aspects of *Mycobacterium bovis* and *Mycobacterium avium*-intracellulare complex (MAC). *Vet. Res.* 36, 411–436, 2005.
- Falkinham JO 3rd, Epidemiology of infection by nontuberculous mycobacteria. *Clin. Microbiol. Rev.* 9, 177–215, 1996.
- Herzmann C, Esser S, Lange C, Infektionen mit nichttuberkulösen Mykobakterien bei HIV-infizierten Patienten. *Hautarzt* 62, 272–279, 2011.
- Hoffmann C, Opportunistische Infektionen – Teil 8: Atypische Mykobakteriose. *HIV&more* 3, 26–28, 2009.
- Komijn RE et al., Prevalence of *Mycobacterium avium* in slaughter pigs in The Netherlands and comparison of IS1245 restriction fragment length polymorphism patterns of porcine and human isolates. *J. Clin. Microbiol.* 37, 1254–1259, 1999.
- Martin GD, Schimmel: *Mycobacterium avium*-Infektion des Geflügels - (k)eine Gefahr für die menschliche Gesundheit? *Dtsch. Tierärztl. Wschr.* 107, 53–58, 2000.
- Oloya J al., *Mycobacteria* causing human cervical lymphadenitis in pastoral communities in the Karamoja region of Uganda. *Epidemiol. Infect.* 136, 636–643, 2008.
- Thorel MF, Huchzermeyer HF, Michel AL, *Mycobacterium avium* and *Mycobacterium intracellulare* infection in mammals. *Rev. Sci. Tech.* 20, 204–218, 2001.
- Tirkkonen T et al., High genetic relatedness among *Mycobacterium avium* strains iso-

lated from pigs and humans revealed by comparative IS1245 RFLP analysis. *Vet. Microbiol.* 125, 175–181, 2007.

- Von Reyn CF et al., Persistent colonisation of potable water as a source of *Mycobacterium avium* infection in AIDS. *Lancet* 343, 1137–1141, 1994.
- Yajko DM al., *Mycobacterium avium* complex in water, food, and soil samples collected from the environment of HIV-infected individuals. *J. Acquir. Immune Defic. Syndr. Hum. Retrovirol.* 9, 176–182, 1995.

2.14.3.2 Infektionen mit *Mycobacterium avium* subsp. *hominissuis*

- Anonymous, Vorkommen von pathogenen Mykobakterien bei Mastschweinen. Stellungnahme Nr. 011/2010. Bundesinstitut für Risikobewertung, Berlin, 2010.
- Bruijnesteijn van Coppenraet LE, de Haas PE, Lindeboom JA et al., Lymphadenitis in children is caused by *Mycobacterium avium* *hominissuis* and not related to „bird tuberculosis“. *Eur. J. Clin. Microbiol. Infect. Dis.* 27, 293–299, 2008.
- Kaevska M, Slana I, Kralik P et al., „*Mycobacterium avium* subsp. *hominissuis*“ in neck lymph nodes of children and their environment examined by culture and triplex quantitative real-time PCR. *J. Clin. Microbiol.* 49, 167–172, 2011.
- Mijs W, de Haas P, Rossau R et al., Molecular evidence to support a proposal to reserve the designation *Mycobacterium avium* subsp. *avium* for bird-type isolates and „*M. avium* subsp. *hominissuis*“ for the human/porcine type of *M. avium*. *Int. J. Syst. Evol. Microbiol.* 52, 1505–1518, 2002.
- Möbius P, Lentzsch P, Moser I et al., Macrorestriction and RFLP analysis of *Mycobacterium avium* subsp. *avium* and *Mycobacterium avium* subsp. *hominissuis* isolates from man, pig, and cattle. *Vet. Microbiol.* 117, 284–291, 2006.
- Radomski N, Thibault VC, Karoui C et al., Determination of genotypic diversity of *Mycobacterium avium* subspecies from human and animal origins by mycobacterial interspersed repetitive-unit-variable-number tandem-repeat and IS1311 restriction fragment length polymorphism typing methods. *J. Clin. Microbiol.* 48, 1026–1034, 2010.

2.14.3.3 Infektionen mit *Mycobacterium avium* subsp. *paratuberculosis*

- Collins MT et al., Results of multiple diagnostic tests for *Mycobacterium avium* subsp. *paratuberculosis* in patients with inflammatory bowel disease and in controls. *J. Clin. Microbiol.* 38, 4373–4381, 2000.
- Eltholth M et al., Contamination of food products with *Mycobacterium avium* *paratuberculosis*: a systematic review. *J. Appl. Microbiol.* 107, 1061–1071, 2009.
- Feller M et al., *Mycobacterium avium* subspecies *paratuberculosis* and Crohn's disease: a systematic review and meta-analysis. *Lancet Infect. Dis.* 7, 607–613, 2007.
- Gao A et al., Effect of pasteurization on survival of *Mycobacterium paratuberculosis* in milk. *J. Dairy Sci.* 85, 3198–3205, 2002
- Grant IR, Zoonotic potential of *Mycobacterium avium* ssp. *paratuberculosis*: the current position. *J. Appl. Microbiol.* 98, 1282–1293, 2005.
- Hendrickson BA, Gokhale R, Cho JH, Clinical aspects and pathophysiology of inflammatory bowel disease. *Clin. Microbiol. Rev.* 15, 79–94, 2002.
- Motiwala AS et al., Current understanding of the genetic diversity of *Mycobacterium avium* subsp. *paratuberculosis*. *Microbes Infect.* 8, 1406–1418, 2006.
- Over K et al., Current perspectives on *Mycobacterium avium* subsp. *paratuberculosis*, Johne's disease, and Crohn's disease: a review. *Crit. Rev. Microbiol.* 37, 141–156, 2011.
- Richter E et al., *Mycobacterium avium* subsp. *paratuberculosis* infection in a patient with HIV, Germany. *Emerg. Infect. Dis.* 8, 729–731, 2002.
- Schrauder A et al., Morbus Crohn und *Mycobacterium avium* ssp. *paratuberculosis* – eine Literaturstudie. Robert Koch-Institut und Bundesinstitut für Risikobewertung, Berlin, 2003.
- Sechi LA et al., Identification of *Mycobacterium avium* subsp. *paratuberculosis* in biopsy specimens from patients with Crohn's disease identified by in situ hybridization. *J. Clin. Microbiol.* 39, 4514–4517, 2001.
- Sidoti F et al., Validation and standardization of IS900 and F57 real-time quantitative PCR assays for the specific detection and quantification of *Mycobacterium avium* subsp. *paratuberculosis*. *Can. J. Microbiol.* 57, 347–354, 2011.
- Waddell L et al., The zoonotic potential of *Mycobacterium avium* ssp. *paratuberculosis*: a systematic review. *Can. J. Public Health.* 99, 145–155, 2008.

2.14.3.4 Infektionen mit *Mycobacterium genavense*

- Arora M et al., GI involvement in disseminated *Mycobacterium genavense*: endoscopy and histology. *Gastrointest. Endosc.* 74, 688–690, 2011.
- Bercovier H, Vincent V, *Mycobacterial* infections in domestic and wild animals due to *Mycobacterium marinum*, *M. fortuitum*, *M. chelonae*, *M. porcinum*, *M. farcinogenes*, *M. smegmatis*, *M. scrofulaceum*, *M. xenopi*, *M. kansasii*, *M. simiae* and *M. genavense*. *Rev. Sci. Tech.* 20, 265–290, 2001.
- Charles P et al., *Mycobacterium genavense* infections: a retrospective multicenter study in France, 1996–2007. *Medicine (Baltimore)* 90, 223–230, 2011.
- Hughes M et al., Disseminated *Mycobacterium genavense* infection in a FIV-positive cat. *J. Feline Med. Surg.* 1, 23–29, 1999.
- Kiehn TE et al., *Mycobacterium genavense* infections in pet animals. *J. Clin. Microbiol.* 34, 1840–1842, 1996.
- Manarolla G et al., Avian mycobacteriosis in companion birds: 20-year survey. *Vet. Microbiol.* 133, 323–327, 2009.
- Thomsen VO et al., Disseminated infection with *Mycobacterium genavense*: a challenge to physicians and mycobacteriologists. *J. Clin. Microbiol.* 37, 3901–3905, 1999.
- Hadad DJ et al., Disseminated *Mycobacterium genavense* in an HIV-infected patient from South America. *Int. J. Tuberc. Lung Dis.* 7, 502–503, 2003.
- Hillebrand-Haverkort ME et al., Generalized *Mycobacterium genavense* infection in HIV-infected patients: detection of the *Mycobacterium* in hospital tap water. *Scand. J. Infect. Dis.* 31, 63–68, 1999.

2.15 Pasteurellosen

- Albert TJ, Stevens DL, The first case of *Pasteurella canis* bacteremia: a cirrhotic patient with an open leg wound. *Infection* 38, 483–485, 2010.

- Ashley BD et al., Fatal *Pasteurella dagmatis* peritonitis and septicaemia in a patient with cirrhosis: a case report and review of the literature. *J. Clin. Pathol.* 57, 210–212, 2004.
- Bisgaard M, Heltberg O, Frederiksen W, Isolation of *Pasteurella caballi* from an infected wound on a veterinary surgeon. *APMIS* 99, 291–294, 1991.
- Buma R et al., Pathogenic bacteria carried by companion animals and their susceptibility to antibacterial agents. *Biocontrol Sci* 11, 1–9, 2006.
- Cohen-Adam D et al., *Pasteurella multocida* septicemia in a newborn without scratches, licks or bites. *Isr. Med. Assoc. J.* 8, 657–658, 2006.
- Drabick JJ et al., *Pasteurella multocida* pneumonia in a man with AIDS and nontraumatic feline exposure. *Chest* 103, 7–11, 1993.
- Escande F, Vallee E, Aubart F, *Pasteurella caballi* infection following a horse bite. *Zentralbl. Bakteriol.* 285, 440–444, 1997.
- Ewers C et al., Virulence genotype of *Pasteurella multocida* strains isolated from different hosts with various disease status. *Vet. Microbiol.* 114, 304–317, 2006.
- Freeman AF et al., *Pasteurella aerogenes* hamster bite peritonitis. *Pediatr. Infect. Dis. J.* 23, 368–370, 2004.
- Harper M, Boyce JD, Adler B, *Pasteurella multocida* pathogenesis: 125 years after Pasteur. *FEMS Microbiol. Lett.* 265, 1–10, 2006.
- Henderson SR et al., Pig trotters lung-novel domestic transmission of *Pasteurella multocida*. *Clin. Med.* 10, 517–518, 2010.
- Kobayaa H et al., *Pasteurella multocida* meningitis in newborns after incidental animal exposure. *Pediatr. Infect. Dis. J.* 28, 928–929, 2009.
- Migliore E et al., *Pasteurella multocida* infection in a cirrhotic patient: case report, microbiological aspects and a review of literature. *Adv. Med. Sci.* 54, 109–112, 2009.
- Olsen I et al., Family I. *Pasteurellaceae* Pohl 1981b, 382VP. In: *Bergey's Manual of Systematic Bacteriology; Volume 2, The Proteobacteria; Part B, The Gammaproteobacteria*. Ed.: Brenner DJ et al., 851-912. Springer Science+Business Media Inc., New York, 2005.
- Pouëdras P et al., *Pasteurella stomatis* infection following a dog bite. *Eur. J. Clin. Microbiol. Infect. Dis.* 12, 65, 1993.
- Sasaki H et al., Comparative analysis of *Pasteurella pneumotropica* isolates from laboratory mice and rats. *Antonie van Leeuwenhoek* 95, 311–317, 2009.
- Satomura A et al., Peritonitis associated with *Pasteurella multocida*: molecular evidence of zoonotic etiology. *Ther. Apher. Dial.* 14, 373–376, 2010.

2.16 Pest

- Achtman M et al., *Yersinia pestis*, the cause of plague, is a recently emerged clone of *Yersinia pseudotuberculosis*. *Mol. Microbiol.* 37, 316–330, 2000.
- Ayyadurai S et al., Rapid identification and typing of *Yersinia pestis* and other *Yersinia* species by matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry. *BMC Microbiol.* 10, 285, 2010.
- Bertherat E et al., Lessons learned about pneumonic plague diagnosis from 2 outbreaks, Democratic Republic of the Congo. *Emerg. Infect. Dis.* 17, 778–784, 2011.
- Bin Saeed AA, Al-Hamdan NA, Fontaine RE, Plague from eating raw camel liver. *Emerg. Infect. Dis.* 11, 1456–1457, 2005.
- Boisier P, Rahalison L, Rasolomaharo M et al., Epidemiologic features of four successive annual outbreaks of bubonic plague in Mahajanga, Madagascar. *Emerg. Infect. Dis.* 8, 311–316, 2002.
- Butler T, Plague into the 21st century. *Clin. Infect. Dis.* 49, 736–742, 2009.
- Cohn SK Jr, Epidemiology of the Black Death and successive waves of plague. *Med. Hist. Suppl.* 74–100, 2008.
- Dedie K et al., *Bakterielle Zoonosen bei Tier und Mensch*. Ferdinand Enke Verlag, Stuttgart, 1993.
- Dennis DT et al., Plague manual – epidemiology, distribution, surveillance and control. *Wkly. Epidemiol. Rec.* 74, 447, 1999.
- Fritz C et al., Surveillance for pneumonic plague in the United States during an international emergency: a model for control of imported emerging diseases. *Emerg. Infect. Dis.* 2, 30–36, 1996.

- Gage KL et al., Cases of cat-associated human plague in the Western US, 1977–1998. *Clin. Infect. Dis.* 30, 893–900, 2000.
- Gould L et al., Dog-associated risk factors for human plague. *Zoonoses Public Health* 55, 448–454, 2008.
- Kool JL, Risk of person-to-person transmission of pneumonic plague. *Clin. Infect. Dis.* 40, 1166–1172, 2005.
- Monecke S, Monecke H, Monecke J, Modelling the black death. A historical case study and implications for the epidemiology of bubonic plague. *Int. J. Med. Microbiol.* 299, 582–593, 2009.
- Orloski KA, Eidson M. *Yersinia pestis* infection in three dogs. *J. Am. Vet. Med. Assoc.* 207, 316–318, 1995.
- Perry RD, Fetherston JD, *Yersinia pestis* – etiologic agent of plague. *Clin. Microbiol. Rev.* 10, 35–66, 1997.
- Riehm JM et al., Detection of *Yersinia pestis* using real-time PCR in patients with suspected bubonic plague. *Mol. Cell. Probes* 25, 8–12, 2011.
- Rosenzweig JA et al., Progress on plague vaccine development. *Appl. Microbiol. Biotechnol.* 91, 265–286, 2011.
- Rubin GJ, Dickmann P, How to reduce the impact of „low-risk patients“ following a bioterrorist incident: lessons from SARS, anthrax, and pneumonic plague. *Biosecur. Bioterror.* 8, 37–43, 2010.
- Ruiz A, Plague in the Americas. *Emerg. Infect. Dis.* 7, 539–540, 2001.
- Skurnik M, Peippo A, Ervela E, Characterization of the O-antigen gene clusters of *Yersinia pseudotuberculosis* and the cryptic O-antigen gene cluster of *Yersinia pestis* shows that the plague bacillus is most closely related to and has evolved from *Y. pseudotuberculosis* serotype O:1b. *Proc. Natl. Acad. Sci. U. S. A.* 96, 14043–14048, 1999.
- Speltstoeser WD et al., Evaluation of a standardized F1 capsular antigen capture ELISA test kit for the rapid diagnosis of plague. *FEMS Immunol. Med. Microbiol.* 41, 149–155, 2004.
- Stenseth NC et al., Plague: past, present, and future. *PLoS Med.* 5, e3, 2008.
- Tomaso H et al., Preliminary validation of real-time PCR assays for the identification of *Yersinia pestis*. *Clin. Chem. Lab. Med.* 46, 1239–1244, 2008.
- Zhou D, Yang R, Molecular Darwinian evolution of virulence in *Yersinia pestis*. *Infect. Immun.* 77, 2242–2250, 2009.

2.17 Q-Fieber

- Brockmann SO et al., Seroprevalence, risk factors and clinical manifestation of Q-fever in Germany. *Epidemiology and Infection* 2010, im Druck.
- Dedić K et al., *Bakterielle Zoonosen bei Tier und Mensch*. Ferdinand Enke Verlag, Stuttgart, 1993.
- Domingo P et al., Acute Q fever in adult patients: Report on 63 sporadic cases in an urban area. *Clin. Infect. Dis.* 29, 874–879, 1999.
- European Food Safety Authority, Scientific opinion on Q-fever. *EFSA Journal*, 8 (5), 1595, 2010.
- Fenollar F, Fournier PE, Raoult D, Molecular detection of *Coxiella burnetii* in the sera of patients with Q fever endocarditis or vascular infection. *J. Clin. Microbiol.* 42, 4919–4924, 2004.
- Fournier PE, Marrie TJ, Raoult D, Diagnosis of Q fever. *J. Clin. Microbiol.* 36, 1823–1834, 1998.
- Fournier PE, Raoult D, Comparison of PCR and serology assays for early diagnosis of acute Q-fever. *J. Clin. Microbiol.* 41: 5094–5098, 2003.
- Frangoulidis D et al., New data on seroprevalence, incidence and risk factors for Q-fever in Germany. *International Meeting on Emerging Diseases and Surveillance*, Vienna, 2007.
- Hellenbrand W, Breuer T, Petersen L, Changing epidemiology of Q fever in Germany, 1947–1999. *Emerg. Infect. Dis.* 7, 789–7796, 2001.
- Hellenbrand W et al., Die Relevanz der Coxiellose bei Tieren für das Q-Fieber beim Menschen Möglichkeiten der Kontrolle und Prävention. *Tierärztliche Praxis* 1, 5–11, 2005.
- Hoen B et al., Infective endocarditis in patients with negative blood cultures: Analysis of 88 cases from a one-year nationwide survey in France. *Clin. Infect. Dis.* 20, 501–506, 1995.
- Hogerwerf L et al., Reduction of *Coxiella burnetii* prevalence by vaccination of goats

- and sheep, The Netherlands. *Emerg. Infect. Dis.* 17, 379–386, 2011.
- Levy PY, Carrieri P, Raoult D, Coxiella burnetii pericarditis: Report of 15 cases and review. *Clin. Infect. Dis.* 29, 393–397, 1999.
- Kilb P, Untersuchungen zur Seroprävalenz von Antikörpern gegen Coxiella burnetii in einer regional gegliederten Stichprobe zur Feststellung der tatsächlichen Häufigkeit von Q-Fieber. Inaug. Diss., Medizinische Fakultät der Universität Ulm, 2007.
- Kimmig P, Wagner-Wiening C, Q-Fieber (Coxiella burnetii). In: Mikrobiologische Diagnostik. Ed.: Burkhardt F et al., Thieme Verlag, Stuttgart, 2010.
- Kimmig P, Q-Fieber – Eine Infektion mit komplexer Epidemiologie. In: Arthropoden als Krankheitsüberträger. Ed.: Aspöck H, Denisia Verlag, 2010.
- Kimmig, P, Q-Fieber. In: Moderne Reisemedizin. Ed.: Rieke B, Küpper T, Muth CM, Gentner Verlag, 2010.
- Liebisch A, Rahman MS, Zum Vorkommen und zur vektoriiellen Bedeutung der Zecken Dermacentor marginatus und Dermacentor reticulatus in Deutschland. *Tropenmed. Parasitol.* 27, 393–404, 1976.
- Liebisch A, Das Q-Fieber als Naturherdinfektion in Süddeutschland. *Bundesgesundheitsbl.* 20, 185–191, 1977.
- Maurin M, Raoult D, Q-fever. *Clin. Microbiol.* 12, 518–553, 1999.
- Pluta S et al., Prevalence of Coxiella burnetii and Rickettsia spp. in ticks and rodents in southern Germany. *Ticks Tick-borne Dis.* 1, 145–147, 2010.
- Porten K et al., A super spreading ewe infects hundreds with Q fever at a farmers market in Germany. *BMC Infectious Diseases* 6, 147, 2006.
- Raoult D, Fenollar F, Stein A, Q-fever during pregnancy. *Archives of Internal Medicine* 162, 701–704, 2002.
- Rehacec J et al., Extensive examination of different tick species for infestation with Coxiella burnetii in Slovakia. *Eur. J. Epidemiol.* 7, 299–303, 1991.
- Robert Koch-Institut, Q-Fieber. RKI-Ratgeber Infektionskrankheiten, Merkblatt für Ärzte, 2005.
- Robert Koch-Institut, Q-Fieber-Ausbruch in Jena. *Epidemiologisches Bulletin* 32/05, 2005.
- Schmeer N, Krauss H, Schiefer HG, Q-Fieber. *Dtsch. Med. Wschr.* 112, 184–188, 1987.
- Stein A, Raoult D, Pigeon pneumonia in Provence: A bird-borne Q fever outbreak. *Clin. Infect. Dis.* 29, 617–620, 1999.
- Sting R et al., Coxiella burnetii-Infektionen in Milchviehbetrieben unter besonderer Berücksichtigung von Infektionen bei Menschen. *Berl. Munch. Tierärztl. Wochenschr.* 115, 360–365, 2002.
- Sting R et al., Untersuchungen zum Vorkommen von Coxiella burnetii bei Schafen und Zecken der Gattung Dermacentor in BW. *Dtsch. tierärztl. Wochenschrift* 111, 381–420, 2004.
- Wagner-Wiening C, Brockmann SO, Kimmig P, Serological diagnosis and follow-up of asymptomatic and acute Q-fever infections. *Int. J. Med. Microbiol.*, 296S1 (Suppl. 40), 294–296, 2006.

2.18 Rattenbisskrankheit

- Anderson D, Marrie TJ, Septic arthritis due to Streptobacillus moniliformis. *Arthritis Rheum.* 30, 229–230, 1987.
- Azimi P, Pets can be dangerous. *Pediatr. Infect. Dis. J.* 9, 670, 684, 1990.
- Banerjee P, Ali Z, Fowler DR, Rat bite fever, a fatal case of Streptobacillus moniliformis infection in a 14-month-old boy. *J. Forensic Sci.* 56, 531–533, 2011.
- Boot R et al., An enzyme-linked immunosorbent assay (ELISA) for monitoring rodent colonies for Streptobacillus moniliformis antibodies. *Lab. Anim.* 27, 350–357, 1993.
- Boot R, Oosterhuis A, Thuis HC, PCR for the detection of Streptobacillus moniliformis. *Lab. Anim.* 36, 200–208, 2002.
- Dendle C, Woolley IJ, Korman TM, Rat-bite fever septic arthritis: illustrative case and literature review. *Eur. J. Clin. Microbiol. Infect. Dis.* 25, 791–797, 2006.
- Dubois D et al., Streptobacillus moniliformis as the causative agent in spondylodiscitis and psoas abscess after rooster scratches. *J. Clin. Microbiol.* 46, 2820–2821, 2008.
- Elliott SP, Rat bite fever and Streptobacillus moniliformis. *Clin. Microbiol. Rev.* 20, 13–22, 2007.
- Frans J, Verhaegen J, Van Noyen R, Streptobacillus moniliformis: case report and review of the literature. *Acta Clin. Belg.* 56, 187–190, 2001.
- Gaastra W et al., Rat bite fever. *Vet. Microbiol.* 133, 211–228, 2009.

- Holroyd KJ, Reiner AP, Dick JD, *Streptobacillus moniliformis* polyarthritits mimicking rheumatoid arthritis: an urban case of rat bite fever. *Am. J. Med.* 85, 711–714, 1988.
- Khatchadourian K et al., The rise of the rats: A growing paediatric issue. *Paediatr Child Health* 15, 131–134, 2010.
- McEvoy MB, Noah ND, Pilsworth R, Outbreak of fever caused by *Streptobacillus moniliformis*. *Lancet* 2, 1361–1363, 1987.
- McHugh TP, Bartlett RL, Raymond JI, Rat bite fever: report of a fatal case. *Ann. Emerg. Med.* 14, 1116–1118, 1985.
- Ojukwu IC, Christy C, Rat-bite fever in children: case report and review. *Scand. J. Infect. Dis.* 34, 474–477, 2002.
- Rordorf T et al., *Streptobacillus moniliformis* endocarditis in an HIV-positive patient. *Infection* 28, 393–394, 2000.
- Rupp ME, *Streptobacillus moniliformis* endocarditis: case report and review. *Clin. Infect. Dis.* 14, 769–772, 1992.
- Sens MA et al., Fatal *Streptobacillus moniliformis* infection in a two-month-old infant. *Am. J. Clin. Pathol.* 91, 612–616, 1989.
- Wang TK, Wong SS, *Streptobacillus moniliformis* septic arthritis: a clinical entity distinct from rat-bite fever? *BMC Infect. Dis.* 7, 56, 2007.
- Wullenweber M, *Streptobacillus moniliformis* – a zoonotic pathogen. Taxonomic considerations, host species, diagnosis, therapy, geographical distribution. *Lab. Anim.* 29, 1–15, 1995.
- ## 2.19 Rickettsiosen
- Anonymous, Epidemic typhus in Rwandan refugee camps. *Wkly. Epid. Rec.* 69, 259, 1994.
- Appel KE et al., Risk assesment of Bundeswehr (German Federal Armed Forces) permethrin-impregnated battle dress uniforms (BDU). *Int. J. Hyg. Environ. Health*, 211, 88–104, 2008.
- Beati L, Raoult D, *Rickettsia massiliae* sp. nov., a new spotted fever group rickettsia. *Int. J. Syst. Bacteriol.* 43, 839–840, 1993.
- Bise G, Coninx R, Epidemic typhus in a prison in Burundi. *Trans. R. Soc. Trop. Med. Hyg.* 91, 133–134, 1997.
- Boostrom A et al., Geographic association of *Rickettsia felis* infected opossums with human murine typhus, Texas. *Emerg. Infect. Dis.* 8, 549–554, 2002.
- Burgdorfer W et al., *Ixodes ricinus*: vector of a hitherto undescribed spotted fever group agent in Switzerland. *Acta Trop* 36, 357–67, 1979.
- Cascio A et al., Clarithromycin versus azithromycin in the treatment of Mediterranean spotted fever in children: a randomized controlled trial. *Clin. Infect. Dis.* 34, 154–158, 2002.
- Dobler G, Wölfel R, Fleckfieber und andere Rickettsiosen. *Dtsch. Ärztebl.* 106, 348–354, 2009.
- Duma RJ et al., Epidemic typhus in the United States associated with flying squirrels. *J. Am. Med. Assoc.* 245, 2318–2323, 1981.
- Dupon M et al., Scrub typhus: An imported rickettsial disease. *Infection* 20, 153–154, 1992.
- Fournier PE et al., Evidence of *Rickettsia helvetica* infection in humans, eastern France. *Emerg. Infect. Dis.* 6, 389–392, 2000.
- Fournier PE et al., Outbreak of *Rickettsia africae* infections in participants of an adventure race in South Africa. *Clin. Infect. Dis.* 27, 316–323, 1998.
- Gillespie JJ et al., Plasmids and rickettsial evolution: insights from *Rickettsia felis*. *PLoS One* 2(3), e266, 2007.
- Hartelt K et al., Pathogens and symbionts in ticks: prevalence of *Anaplasma phagocytophilum* (*Ehrlichia* sp.), *Wolbachia* sp., *Rickettsia* sp., and *Babesia* sp. in Southern Germany. *Int. J. Med. Microbiol.* 293, Suppl. 37, 86–92, 2004.
- Higgins JA et al., *Rickettsia felis*: a new species of pathogenic rickettsia isolated from cat fleas. *J. Clin. Microbiol.* 34, 671–674, 1996.
- Jado I et al., *Rickettsia monacensis* and human disease, Spain. *Emerg. Infect. Dis.* 13, 1405–1407, 2007.
- Jelinek T, Löscher T, Clinical features and epidemiology of tick-typhus in travellers. *J. Travel. Med.* 8, 57–59, 2001.
- Kass EM et al., *Rickettsialpox* in a New York City hospital, 1980–1989. *New Engl. J. Med.* 331, 1612–1617, 1994.
- Knobloch J, Löscher T, Rickettsiosen. In: *Tropenmedizin in Klinik und Praxis*. Ed.: Löscher T, Burchard GD, Thieme Verlag, Stuttgart, 2010.
- Kramme S, Matten J, *Rickettsia* spp. In: *Mikrobiologische Diagnostik*. Ed.: Neumeister B et al., Thieme Verlag, Stuttgart, 2009

- Marquez FJ et al., Presence of *Rickettsia felis* in the cat flea from southwestern Europe. *Emerg. Infect. Dis.* 8, 89–91, 2002.
- McDade JE et al., Evidence of *Rickettsia prowazekii* infections in the United States. *Am. J. Trop. Med. Hyg.* 29, 277–284, 1980.
- Mediannikov O et al., *Rickettsia raoultii* sp. nov., a spotted fever group rickettsia associated with *Dermacentor* ticks in Europe and Russia. *Int. J. Syst. Evol. Microbiol.* 58, 1635–1639, 2008.
- Nilsson K, Elfving K, Pahlson C, *Rickettsia helvetica* in patient with meningitis, Sweden, 2006. *Emerg. Infect. Dis.* 16, 490–492, 2010.
- Nilsson K, Lindquist O, Pahlson C, Association of *Rickettsia helvetica* with chronic perimyocarditis in sudden cardiac death. *Lancet* 354, 1169–1173, 1999.
- Pai H et al., Central nervous system involvement in patients with scrub typhus. *Clin. Infect. Dis.* 24, 436–440, 1997.
- Parola P, Davoust B, Raoult D, Tick- and flea-borne rickettsial emerging zoonoses. *Vet. Res.* 36, 469–492, 2005.
- Parola P, Paddock CD, Raoult D, Tick-borne rickettsioses around the world: emerging diseases challenging old concepts. *Clin. Microbiol. Rev.* 18, 719–756, 2005.
- Parola P, Raoult D, Tropical rickettsioses. *J. Clin. Dermatol.* 24, 191–200, 2006.
- Parola P et al., *Rickettsia slovaca* and *R. raoultii* in tick-borne rickettsioses. *Emerg. Infect. Dis.* 15, 2009.
- Perine PL et al., A clinico-epidemiological study of epidemic typhus in Africa. *Clin. Infect. Dis.* 14, 1149–1158, 1992.
- Pluta S et al., What else besides TBE and Borreliosis? Tick-transmitted pathogens in Germany and beyond. *Progress in parasitology*, H. Mehlhorn (ed.), 27–53, 2010.
- Pluta S et al., Prevalence of *Coxiella burnetii* and *Rickettsia* spp. in ticks and rodents in southern Germany. *Ticks Tick-borne Dis.* 1(3), 145–147, 2010.
- Pluta S et al., *Rickettsia slovaca* in *Dermacentor marginatus* ticks, Germany. *Emerg. Infect. Dis.* 15, 2077–2078, 2009.
- Raoult D et al., A new tick-transmitted disease due to *Rickettsia slovaca*. *Lancet* 350, 112–113, 1997.
- Raoult D, Roux V, Rickettsioses as paradigms of new or emerging infectious diseases. *Clin. Microbiol. Rev.* 10, 694–719, 1997.
- Raoult D et al., A flea associated rickettsia pathogenic for humans. *Emerg. Infect. Dis.* 7, 73–81, 2001.
- Rehacek J, Rickettsiae of the spotted fever isolated from *Dermacentor marginatus* ticks in South Germany. *Zbl. Bakt. Hyg. I Abt. Orig. A* 239, 275–281, 1977.
- Schex S et al., *Rickettsia* spp. in wild small mammals in lower Bavaria, South-Eastern Germany. *Vector Borne Zoonotic Dis.* 11, 493–502, 2011.
- Seong SY, Choi MS, Kim IS, *Orientia tsutsugamushi* infection: overview and immune responses. *Microbes and Infection* 3, 11–21, 2001.
- Simser JA et al., *Rickettsia monacensis* sp. nov., a spotted fever group *Rickettsia*, from ticks (*Ixodes ricinus*) collected in a European city park. *Appl. Environ. Microbiol.* 68, 4559–1566, 2002.
- Thorner AR, Walker DH, Petri WA, Rocky Mountain spotted fever. *Clin. Infect. Dis.* 27, 1353–1359, 1998.
- Vestris G et al., Seven years experience of isolation of *Rickettsia* spp. from clinical specimens using the shell vial cell culture assay. *Ann. N.Y. Acad. Sci.* 990, 371–374, 2003.
- Walker DH, Rocky Mountain spotted fever: A seasonal alert. *Clin. Infect. Dis.* 20, 1111–1117, 1995.
- Wölfel R et al., *Rickettsia* spp. in *Ixodes ricinus* ticks in Bavaria, Germany. *Ann. N. Y. Acad. Sci.* 1078, 509–511, 2006.
- Yamashita T et al., Transmission of *Rickettsia tsutsugamushi* strains among humans, wild rodents, and trombiculid mites in an area of Japan in which tsutsugamushi disease is newly endemic. *J. Clin. Microbiol.* 32, 2780–2785, 1994.

2.20 Rotlauf (Erysipeloid)

- Brooke CJ, Riley TV, *Erysipelothrix rhusiopathiae*: bacteriology, epidemiology and clinical manifestations of an occupational pathogen. *J. Med. Microbiol.* 48, 789–799, 1999.
- Eamens GJ et al., Evaluation of *Erysipelothrix rhusiopathiae* vaccines in pigs by intradermal challenge and immune responses. *Vet. Microbiol.* 116, 138–148, 2006.
- Fidalgo SG, Longbottom CJ, Rjley TV, Susceptibility of *Erysipelothrix rhusiopathiae* to

- antimicrobial agents and home disinfectants. *Pathology (Phila.)* 34, 462–465, 2002.
- Gorby GL, Peacock JE Jr, Erysipelothrix rhusiopathiae endocarditis: microbiologic, epidemiologic, and clinical features of an occupational disease. *Rev. Infect. Dis.* 10, 317–325, 1988.
- Hocqueloux L et al., Septic arthritis caused by Erysipelothrix rhusiopathiae in a prosthetic knee joint. *J. Clin. Microbiol.* 48, 333–335, 2010.
- Imada Y et al., Serotyping of 800 strains of Erysipelothrix isolated from pigs affected with erysipelas and discrimination of attenuated live vaccine strain by genotyping. *J. Clin. Microbiol.* 42, 2121–2126, 2004.
- Kanai Y et al., Occurrence of zoonotic bacteria in retail game meat in Japan with special reference to Erysipelothrix. *J. Food Prot.* 60, 328–331, 1997.
- Ko SB et al., A case of multiple brain infarctions associated with Erysipelothrix rhusiopathiae endocarditis. *Arch. Neurol.* 60, 434–436, 2003.
- Neumann EJ et al., Safety of a live attenuated Erysipelothrix rhusiopathiae vaccine for swine. *Vet. Microbiol.* 135, 297–303, 2009.
- Ogawa Yet al., The genome of Erysipelothrix rhusiopathiae, the causative agent of swine erysipelas, reveals new insights into the evolution of firmicutes and the organism's intracellular adaptations. *J. Bacteriol.* 193, 2959–2971, 2011.
- Pal N, Bender JS, Opriessnig T, Rapid detection and differentiation of Erysipelothrix spp. by a novel multiplex real-time PCR assay. *J. Appl. Microbiol.* 108, 1083–1093, 2010.
- Reboli AC, Farrar WE, Erysipelothrix rhusiopathiae: an occupational pathogen. *Clin. Microbiol. Rev.* 2, 354–359, 1989.
- Romney M, Cheung S, Montessori V, Erysipelothrix rhusiopathiae endocarditis and presumed osteomyelitis. *Can J Infect Dis* 12, 254–256, 2001.
- Roskopf-Streicher U et al., Quality control of inactivated erysipelas vaccines: results of an international collaborative study to establish a new regulatory test. *Vaccine* 19, 1477–1483, 2001.
- Ruiz ME et al., Erysipelothrix rhusiopathiae septic arthritis. *Arthritis Rheum.* 48, 1156–1157, 2003.
- Schuster MG, Brennan PJ, Edelstein P, Persistent bacteremia with Erysipelothrix rhusiopathiae in a hospitalized patient. *Clin. Infect. Dis.* 17, 783–784, 1993.
- Shimoji Y, Pathogenicity of Erysipelothrix rhusiopathiae: virulence factors and protective immunity. *Microbes Infect.* 2, 965–972, 2000.
- Stenström IM et al., Occurrence of different serotypes of Erysipelothrix rhusiopathiae in retail pork and fish. *Acta Vet. Scand.* 33, 169–173, 1992.
- Tlougan BE, Podjasek JO, Adams BB, Aquatic sports dermatoses: Part 3. On the water. *Int. J. Dermatol.* 49, 1111–1120, 2010.
- Umana E, Erysipelothrix rhusiopathiae: an unusual pathogen of infective endocarditis. *Int. J. Cardiol.* 88, 297–299, 2003.
- Veraldi S et al., Erysipeloid: a review. *Clin. Exp. Dermatol.* 34, 859–862, 2009.
- Wang Q, Chang BJ, Riley TV, Erysipelothrix rhusiopathiae. *Vet. Microbiol.* 140, 405–417, 2010.

2.21 Salmonellosen

- Aiken AM, Lane C, Adak GK, Risk of Salmonella infection with exposure to reptiles in England, 2004–2007. *Euro Surveill.* 15, 19581, 2010.
- Berger CN et al., Fresh fruit and vegetables as vehicles for the transmission of human pathogens. *Environ. Microbiol.* 12, 2385–2397, 2010.
- Bertrand S et al., Salmonella infections associated with reptiles: the current situation in Europe. *Euro Surveill.* 13, 2008.
- Blaser MJ, Newman LS, A review of human salmonellosis: I. Infective dose. *Rev. Infect. Dis.* 4, 1096–1106, 1982.
- CDC, Multistate outbreak of human Salmonella typhimurium infections associated with aquatic frogs – United States, 2009. *MMWR Morb. Mortal. Wkly. Rep.* 58, 1433–1436, 2009.
- Dontsenko I et al., Outbreak of salmonellosis in a kindergarten in Estonia, May 2008. *Euro Surveill.* 13, 2008.
- EFSA, The European Union Summary Report of Trends and Sources of Zoonoses, Zoonotic Agents and Food-borne Outbreaks in 2009. *The EFSA Journal* 9, 2090, 2011.
- Evans HS, Maguire H, Outbreaks of infectious intestinal disease in schools and nurseries in England and Wales 1992 to 1994. *Com-*

- mun. Dis. Rep. CDR Rev. 6, R103–108, 1996.
- Fernandez Guerrero ML et al., The spectrum of cardiovascular infections due to *Salmonella enterica*: a review of clinical features and factors determining outcome. *Medicine (Baltimore)* 83, 123–138, 2004.
- Gerlach RG, Hensel M, *Salmonella* pathogenicity islands in host specificity, host pathogen-interactions and antibiotics resistance of *Salmonella enterica*. *Berl. Munch. Tierarztl. Wochenschr.* 120, 317–327, 2007.
- Guibourdenche M et al., Supplement 2003–2007 (No. 47) to the White-Kauffmann-Le Minor scheme. *Res. Microbiol.* 161, 26–29, 2010.
- Hohmann EL, Nontyphoidal salmonellosis. *Clin. Infect. Dis.* 32, 263–269, 2001.
- Hopkins KL et al., Multiresistant *Salmonella enterica* serovar 4,[5],12:i:- in Europe: a new pandemic strain? *Euro Surveill.* 15, 19580, 2010.
- Lee K et al., A novel multiplex PCR assay for *Salmonella* subspecies identification. *J. Appl. Microbiol.* 107, 805–811, 2009.
- Lehmacher A, Bockemühl J, Aleksic S, Nationwide outbreak of human salmonellosis in Germany due to contaminated paprika and paprika-powdered potato chips. *Epidemiol. Infect.* 115, 501–511, 1995.
- Olsen SJ et al., The changing epidemiology of *Salmonella*: trends in serotypes isolated from humans in the United States, 1987–1997. *J. Infect. Dis.* 183, 753–761, 2001.
- Olsen SJ et al., A nosocomial outbreak of fluoroquinolone-resistant *Salmonella* infection. *N. Engl. J. Med.* 344, 1572–1579, 2001.
- Rabsch W et al., *Salmonella enterica* serotype Typhimurium and its host-adapted variants. *Infect. Immun.* 70, 2249–2255, 2002.
- Ribot EM et al., *Salmonella enterica* serotype Typhimurium DT104 isolated from humans, United States, 1985, 1990, and 1995. *Emerg. Infect. Dis.* 8, 387–391, 2002.
- Singh A et al., Dynamic predictive model for the growth of *Salmonella* spp. in liquid whole egg. *J. Food Sci.* 76, M225–232, 2011.
- Staдаert SM, Hutcheson RH, Schaffner W, Nosocomial transmission of *Salmonella* gastroenteritis to laundry workers in a nursing home. *Infect. Control Hosp. Epidemiol.* 15, 22–26, 1994.
- Tindall BJ et al., Nomenclature and taxonomy of the genus *Salmonella*. *Int. J. Syst. Evol. Microbiol.* 55, 521–524, 2005.
- Valdez Y, Ferreira RB, Finlay BB, Molecular mechanisms of *Salmonella* virulence and host resistance. *Curr. Top. Microbiol. Immunol.* 337, 93–127, 2009.
- Wagner C, Hensel M, Adhesive mechanisms of *Salmonella enterica*. *Adv. Exp. Med. Biol.* 715, 17–34, 2011.
- Wales AD et al., Review of the carriage of zoonotic bacteria by arthropods, with special reference to *Salmonella* in mites, flies and litter beetles. *Zoonoses Public Health* 57, 299–314, 2010.

2.22 Staphylokokken-Infektionen

- Atalay B et al., Brain abscess caused by *Staphylococcus intermedius*. *Acta Neurochir. (Wien)* 147, 347–348; discussion 348, 2005.
- Cuny C et al., Emergence of methicillin-resistant *Staphylococcus aureus* (MRSA) in different animal species. *Int. J. Med. Microbiol.* 300, 109–117, 2010.
- Cuny C et al., Nasal colonization of humans with methicillin-resistant *Staphylococcus aureus* (MRSA) CC398 with and without exposure to pigs. *PLoS ONE* 4, e6800, 2009.
- Guardabassi L, Loeber ME, Jacobson A, Transmission of multiple antimicrobial-resistant *Staphylococcus intermedius* between dogs affected by deep pyoderma and their owners. *Vet. Microbiol.* 98, 23–27, 2004.
- Hanselman BA et al., Coagulase positive staphylococcal colonization of humans and their household pets. *Can. Vet. J.* 50, 954–958, 2009.
- Ikeda-Dantsuji Y et al., Linezolid-resistant *Staphylococcus aureus* isolated from 2006 through 2008 at six hospitals in Japan. *J. Infect. Chemother* 17, 45–51, 2011.
- Kehrenberg C et al., Methicillin-resistant and -susceptible *Staphylococcus aureus* strains of clonal lineages ST398 and ST9 from swine carry the multidrug resistance gene *cf*. *Antimicrob. Agents Chemother.* 53, 779–781, 2009.
- Kikuchi K et al., Molecular confirmation of transmission route of *Staphylococcus intermedius* in mastoid cavity infection

- from dog saliva. *J Infect Chemother* 10, 46–48, 2004.
- Lee J, Staphylococcus intermedius isolated from dog-bite wounds. *J. Infect.* 29, 105, 1994.
- Loeffler A et al., Prevalence of methicillin-resistant Staphylococcus aureus among staff and pets in a small animal referral hospital in the UK. *J. Antimicrob. Chemother.* 56, 692–697, 2005.
- Lowy FD, How Staphylococcus aureus adapts to its host. *N. Engl. J. Med.* 364, 1987–1990, 2011.
- Moodley A, Guardabassi L, Clonal spread of methicillin-resistant coagulase-negative staphylococci among horses, personnel and environmental sites at equine facilities. *Vet. Microbiol.* 137, 397–401, 2009.
- Nannini E, Murray BE, Arias CA, Resistance or decreased susceptibility to glycopeptides, daptomycin, and linezolid in methicillin-resistant Staphylococcus aureus. *Curr. Opin. Pharmacol.* 10, 516–521, 2010.
- Paul NC et al., Carriage of Methicillin-Resistant Staphylococcus pseudintermedius in Small Animal Veterinarians: Indirect Evidence of Zoonotic Transmission. *Zoonoses Public Health* doi: 10.1111/j.1863-2378.2011.01398.x. [Epub ahead of print] 2011.
- Riegel P et al., Coagulase-positive Staphylococcus pseudintermedius from animals causing human endocarditis. *Int. J. Med. Microbiol.* 301, 237–239, 2011.
- Rutland BE et al., Human-to-dog transmission of methicillin-resistant Staphylococcus aureus. *Emerg. Infect. Dis.* 15, 1328–1330, 2009.
- Sasaki T et al., Reclassification of phenotypically identified Staphylococcus intermedius strains. *J. Clin. Microbiol.* 45, 2770–2778, 2007.
- Strommenger B et al., Molecular characterization of methicillin-resistant Staphylococcus aureus strains from pet animals and their relationship to human isolates. *J. Antimicrob. Chemother.* 57, 461–465, 2006.
- Talan DA et al., Bacteriologic analysis of infected dog and cat bites. *Emergency Medicine Animal Bite Infection Study Group.* *N. Engl. J. Med.* 340, 85–92, 1999.
- Tanner MA, Everett CL, Youvan DC, Molecular phylogenetic evidence for noninvasive zoonotic transmission of Staphylococcus intermedius from a canine pet to a human. *J. Clin. Microbiol.* 38, 1628–1631, 2000.
- van Belkum A et al., Methicillin-resistant and -susceptible Staphylococcus aureus sequence type 398 in pigs and humans. *Emerg. Infect. Dis.* 14, 479–483, 2008.
- Van Hoovels A et al., First case of Staphylococcus pseudintermedius infection in a human. *J. Clin. Microbiol.* 44, 4609–4612, 2006.
- Vandenesch F et al., Catheter-related bacteremia associated with coagulase-positive Staphylococcus intermedius. *J. Clin. Microbiol.* 33, 2508–2510, 1995.
- Walther B et al., Staphylococcus aureus and MRSA colonization rates among personnel and dogs in a small animal hospital: association with nosocomial infections. *Berl. Munch. Tierarztl. Wochenschr.* 122, 178–185, 2009.
- Weese JS, van Duijkeren E, Methicillin-resistant Staphylococcus aureus and Staphylococcus pseudintermedius in veterinary medicine. *Vet. Microbiol.* 140, 418–429, 2010.

2.23 Streptokokken-Infektionen

2.23.2 Streptococcus equi-Infektionen (Streptokokken der serologischen Gruppe C)

- Abbott Y et al., Zoonotic transmission of Streptococcus equi subsp. zooepidemicus from a dog to a handler. *J. Med. Microbiol.* 59, 120–123, 2010.
- Bordes-Benitez A et al., Outbreak of Streptococcus equi subsp. zooepidemicus infections on the island of Gran Canaria associated with the consumption of inadequately pasteurized cheese. *Eur. J. Clin. Microbiol. Infect. Dis.* 25, 242–246, 2006.
- Boucher C et al., Un cas de zoonose associé à Streptococcus equi ssp. zooepidemicus. *Can. Vet. J.* 43, 123–124, 2002.
- Bradley SF et al., Group C streptococcal bacteremia: analysis of 88 cases. *Rev. Infect. Dis.* 13, 270–280, 1991.
- Collazos J et al., Streptococcus zooepidemicus septic arthritis: case report and review of group C streptococcal arthritis. *Clin. Infect. Dis.* 15, 744–746, 1992.
- Dolinski SY et al., Group C streptococcal pleurisy and pneumonia: a fulminant case and

- review of the literature. *Infection* 18, 239–241, 1990.
- Downar J et al., Streptococcal meningitis resulting from contact with an infected horse. *J. Clin. Microbiol.* 39, 2358–2359, 2001.
- Edwards AT, Roulson M, Ironside MJ, A milk-borne outbreak of serious infection due to *Streptococcus zooepidemicus* (Lancefield Group C). *Epidemiol. Infect.* 101, 43–51, 1988.
- Elsayed S et al., *Streptococcus equi* subspecies *equi* (Lancefield group C) meningitis in a child. *Clin. Microbiol. Infect.* 9, 869–872, 2003.
- Eyre DW et al., *Streptococcus equi* subspecies *zooepidemicus* meningitis – a case report and review of the literature. *Eur. J. Clin. Microbiol. Infect. Dis.* 29, 1459–1463, 2010.
- Friederichs J et al., Human bacterial arthritis caused by *Streptococcus zooepidemicus*: report of a case. *Int. J. Infect. Dis.* 14 Suppl 3, e233–235, 2010.
- Kuusi M et al., An outbreak of *Streptococcus equi* subspecies *zooepidemicus* associated with consumption of fresh goat cheese. *BMC Infect. Dis.* 6, 36, 2006.
- Manning SD et al., Association of Group B *Streptococcus* colonization and bovine exposure: a prospective cross-sectional cohort study. *PLoS ONE* 5, e8795, 2010.
- Meyer A et al., Second reported case of human infection with *Streptococcus equi* subsp. *ruminatorum*. *Joint Bone Spine* 78, 303–305, 2011.
- Priestnall S, Erles K, *Streptococcus zooepidemicus*: an emerging canine pathogen. *Vet. J.* 188, 142–148, 2011.
- 2.23.3 Streptococcus suis-Infektionen**
- Allgaier A et al., Relatedness of *Streptococcus suis* isolates of various serotypes and clinical backgrounds as evaluated by macrorestriction analysis and expression of potential virulence traits. *J. Clin. Microbiol.* 39, 445–453, 2001.
- Baums CG, Valentin-Weigand P, Surface-associated and secreted factors of *Streptococcus suis* in epidemiology, pathogenesis and vaccine development. *Anim. Health Res. Rev.* 10, 65–83, 2009.
- Feng Y et al., Uncovering newly emerging variants of *Streptococcus suis*, an important zoonotic agent. *Trends Microbiol.* 18, 124–131, 2010.
- Ho DT et al., Risk factors of *Streptococcus suis* infection in Vietnam. A case-control study. *PLoS ONE* 6, e17604, 2011.
- Maher D, *Streptococcus suis* septicaemia presenting as severe acute gastro-enteritis. *J. Infect.* 22, 303–304, 1991.
- Navacharoen N et al., Hearing and vestibular loss in *Streptococcus suis* infection from swine and traditional raw pork exposure in northern Thailand. *J. Laryngol. Otol.* 123, 857–862, 2009.
- Nga T et al., Real-time PCR for detection of *Streptococcus suis* serotype 2 in cerebrospinal fluid of human patients with meningitis. *Diagn. Microbiol. Infect. Dis.* 70, 461–467, 2011.
- Nghia H et al., Human case of *Streptococcus suis* serotype 16 infection. *Emerg. Infect. Dis.* 14, 155–157, 2008.
- Staats JJ et al., *Streptococcus suis*: past and present. *Vet. Res. Commun.* 21, 381–407, 1997.
- Tambyah PA et al., *Streptococcus suis* infection complicated by purpura fulminans and rhabdomyolysis: case report and review. *Clin. Infect. Dis.* 24, 710–712, 1997.
- Tang J et al., Streptococcal toxic shock syndrome caused by *Streptococcus suis* serotype 2. *PLoS Med.* 3, e151, 2006.
- Teekakirikul P, Wiwanitkit V, *Streptococcus suis* infection: overview of case reports in Thailand. *Southeast Asian J. Trop. Med. Public Health* 34 Suppl 2, 178–183, 2003.
- Wangsomboonsiri W et al., *Streptococcus suis* infection and risk factors for mortality. *J. Infect.* 57, 392–396, 2008.
- Wertheim HF et al., *Streptococcus suis*: an emerging human pathogen. *Clin. Infect. Dis.* 48, 617–625, 2009.
- Yu H et al., Human *Streptococcus suis* outbreak, Sichuan, China. *Emerg. Infect. Dis.* 12, 914–920, 2006.
- 2.23.4 Streptococcus pyogenes-Infektionen**
- Copperman SM, Cherchez le chien: household pets as reservoirs of persistent or recurrent streptococcal sore throats in children. *N. Y. State J. Med.* 82, 1685–1687, 1982.
- Falck G, Group A streptococci in household pets' eyes – a source of infection in humans? *Scand. J. Infect. Dis.* 29, 469–471, 1997.
- Johansson L, Thulin P, Low DE, A. Norrby-Teiglund: Getting under the skin: the immunopathogenesis of *Streptococcus pyogenes*

- deep tissue infections. *Clin. Infect. Dis.* 51, 58–65, 2010.
- Mayer G, Van Ore S, Recurrent pharyngitis in family of four. Household pet as reservoir of group A streptococci. *Postgrad. Med.* 74, 277–279, 1983.
- 2.23.5 Streptococcus agalactiae-Infektionen**
- Manning SD et al., Association of Group B Streptococcus colonization and bovine exposure: a prospective cross-sectional cohort study. *PLoS ONE* 5, e8795, 2010.
- Richards VP et al., Comparative genomics and the role of lateral gene transfer in the evolution of bovine adapted Streptococcus agalactiae. *Infect. Genet. Evol.* 11, 1263–1275, 2011.
- 2.23.6 Infektionen mit anderen Streptokokken-Arten**
- Agnew W, Barnes AC, Streptococcus iniae: an aquatic pathogen of global veterinary significance and a challenging candidate for reliable vaccination. *Vet. Microbiol.* 122, 1–15, 2007.
- Baiano JC, Barnes AC, Towards control of Streptococcus iniae. *Emerg. Infect. Dis.* 15, 1891–1896, 2009.
- Chen C et al., A glimpse of streptococcal toxic shock syndrome from comparative genomics of *S. suis* 2 Chinese isolates. *PLoS ONE* 2, e315, 2007.
- Duarte RS et al., Phenotypic and genotypic characteristics of Streptococcus porcinus isolated from human sources. *J. Clin. Microbiol.* 43, 4592–4601, 2005.
- Galpérine T et al., Streptococcus canis infections in humans: retrospective study of 54 patients. *J. Infect.* 55, 23–26, 2007.
- Koh TH et al., Streptococcal cellulitis following preparation of fresh raw seafood. *Zoonoses Public Health* 56, 206–208, 2009.
- Lam MM et al., The other group G Streptococcus: increased detection of Streptococcus canis ulcer infections in dog owners. *J. Clin. Microbiol.* 45, 2327–2329, 2007.
- Lamm CG et al., Streptococcal infection in dogs: a retrospective study of 393 cases. *Vet. Pathol.* 47, 387–395, 2010.
- Lau SK et al., Invasive Streptococcus iniae infections outside North America. *J. Clin. Microbiol.* 41, 1004–1009, 2003.
- Martin C et al., Streptococcus porcinus as a cause of spontaneous preterm human stillbirth. *J. Clin. Microbiol.* 42, 4396–4398, 2004.
- Reitmeyer JC, Guthrie RK, Steele JH, Biochemical properties of group G streptococci isolated from cats and man. *J. Med. Microbiol.* 35, 148–151, 1991.
- Takahashi T, Ubukata K, Watanabe H, Invasive infection caused by Streptococcus dysgalactiae subsp. equisimilis: characteristics of strains and clinical features. *J Infect Chemother* 17, 1–10, 2010.
- Takeda N et al., Recurrent septicemia caused by Streptococcus canis after a dog bite. *Scand. J. Infect. Dis.* 33, 927–928, 2001.
- Tessier J et al., Zoonotic infection with group G streptococcus. *Clin. Infect. Dis.* 28, 1322–1323, 1999.
- Timoney JE, The pathogenic equine streptococci. *Vet. Res.* 35, 397–409, 2004.
- Vieira VV et al., Genetic relationships among the different phenotypes of Streptococcus dysgalactiae strains. *Int. J. Syst. Bacteriol.* 48 Pt 4, 1231–1243, 1998.
- Weinstein MR et al., Invasive infections due to a fish pathogen, Streptococcus iniae. *S. iniae Study Group. N. Engl. J. Med.* 337, 589–594, 1997.
- 2.24 Tularämie**
- Abd H et al., Survival and growth of Francisella tularensis in Acanthamoeba castellanii. *Appl. Environ. Microbiol.* 69, 600–606, 2003.
- Anda P et al., Waterborne outbreak of tularemia associated with crayfish fishing. *Emerg. Infect. Dis.* 7, 575–582, 2001.
- Anonymous, Tularemia. The Center for Food Security and Public Health, Iowa State University. <http://www.cfsph.iastate.edu/Factsheets/pdfs/tularemia.pdf>. 2009.
- Busse H et al., Objections to the transfer of Francisella novicida to the subspecies rank of Francisella tularensis – response to Johansson et al. *Int. J. Syst. Evol. Microbiol.* 60, 1718–1720, 2010.
- Capellan JL, Fong W, Tularemia from a cat bite: case report and review of feline-associated tularemia. *Clin. Infect. Dis.* 16, 472–475, 1993.
- Dennis DT et al., Tularemia as a biological weapon: medical and public health management. *JAMA* 285, 2763–2773, 2001.

- Eliasson H et al., The 2000 tularemia outbreak: a case-control study of risk factors in disease-endemic and emergent areas, Sweden. *Emerg. Infect. Dis.* 8, 956–960, 2002.
- Ellis J et al., Tularemia. *Clin. Microbiol. Rev.* 15, 631–646, 2002.
- Eneslatt K et al., Persistence of cell-mediated immunity three decades after vaccination with the live vaccine strain of *Francisella tularensis*. *Eur. J. Immunol.* 41, 974–980, 2011.
- Farlow Jet al., *Francisella tularensis* strain typing using multiple-locus, variable-number tandem repeat analysis. *J. Clin. Microbiol.* 39, 3186–3192, 2001.
- Feldman KA et al., An outbreak of primary pneumonic tularemia on Martha's Vineyard. *N. Engl. J. Med.* 345, 1601–1606, 2001.
- Fredricks DN, Remington JS, Tularemia presenting as community-acquired pneumonia. Implications in the era of managed care. *Arch. Intern. Med.* 156, 2137–2140, 1996.
- Hauri AM et al., Investigating an airborne tularemia outbreak, Germany. *Emerg. Infect. Dis.* 16, 238–243, 2010.
- Hornick R, Tularemia revisited. *N. Engl. J. Med.* 345, 1637–1639, 2001.
- Kaysser PE et al., Re-emergence of tularemia in Germany: presence of *Francisella tularensis* in different rodent species in endemic areas. *BMC Infect. Dis.* 8, 157, 2008.
- Kugeler KJ et al., Molecular Epidemiology of *Francisella tularensis* in the United States. *Clin. Infect. Dis.* 48, 863–870, 2009.
- O'Toole D et al., Tularemia in range sheep: an overlooked syndrome? *J. Vet. Diagn. Invest.* 20, 508–513, 2008.
- Oyston PC, *Francisella tularensis*: unravelling the secrets of an intracellular pathogen. *J. Med. Microbiol.* 57, 921–930, 2008.
- Perez-Castrillon JL et al., Tularemia epidemic in northwestern Spain: clinical description and therapeutic response. *Clin. Infect. Dis.* 33, 573–576, 2001.
- Petersen JM, Molins CR, Subpopulations of *Francisella tularensis* ssp. *tularensis* and *holarctica*: identification and associated epidemiology. *Future Microbiol.* 5, 649–661, 2010.
- Reintjes R et al., Tularemia outbreak investigation in Kosovo: case control and environmental studies. *Emerg. Infect. Dis.* 8, 69–73, 2002.
- Sjostedt A et al., Detection of *Francisella tularensis* in ulcers of patients with tularemia by PCR. *J. Clin. Microbiol.* 35, 1045–1048, 1997.
- Tärnvik A, WHO Guidelines on Tularaemia. Vol. WHO/CDS/EPR/2007.7. World Health Organization, Geneva, 2007.
- Urich SK, Petersen JM, In vitro susceptibility of isolates of *Francisella tularensis* types A and B from North America. *Antimicrob. Agents Chemother.* 52, 2276–2278, 2008.
- Vogler AJ et al., Phylogeography of *Francisella tularensis*: global expansion of a highly fit clone. *J. Bacteriol.* 191, 2474–2484, 2009.
- Wik O, Large tularaemia outbreak in Värmland, central Sweden, 2006. *Euro Surveill.* 11, E060921 060921, 2006.

2.25 Vibriosen

2.25.1 Cholera

- Alam M et al., Viable but nonculturable *Vibrio cholerae* O1 in biofilms in the aquatic environment and their role in cholera transmission. *Proc. Natl. Acad. Sci. U. S. A.* 104, 17801–17806, 2007.
- Albert MJ, Neira M, Motarjemi Y, The role of food in the epidemiology of cholera. *World Health Stat. Q.* 50, 111–118, 1997.
- Austin B, Vibrios as causal agents of zoonoses. *Vet. Microbiol.* 140, 310–317, 2010.
- Bharati K, Ganguly NK, Cholera toxin: a paradigm of a multifunctional protein. *Indian J. Med. Res.* 133, 179–187, 2011.
- Bhattacharya SK, An evaluation of current cholera treatment. *Expert Opin. Pharmacother.* 4, 141–146, 2003.
- Chatterjee SN, Chaudhuri K, Lipopolysaccharides of *Vibrio cholerae*. I. Physical and chemical characterization. *Biochim. Biophys. Acta* 1639, 65–79, 2003.
- Cho YJ et al., Genomic evolution of *Vibrio cholerae*. *Curr. Opin. Microbiol.* 13, 646–651, 2010.
- Echevarria J et al., Efficacy and tolerability of ciprofloxacin prophylaxis in adult household contacts of patients with cholera. *Clin. Infect. Dis.* 20, 1480–1484, 1995.
- Kaper JB, Morris JG Jr, Levine MM, Cholera. *Clin. Microbiol. Rev.* 8, 48–86, 1995.
- Lizárraga-Partida ML et al., Association of *Vibrio cholerae* with plankton in coastal areas of Mexico. *Environ. Microbiol.* 11, 201–208, 2009.

- Manning PA, The tcp gene cluster of *Vibrio cholerae*. *Gene* 192, 63–70, 1997.
- Nalin DR et al., Cholera, non-vibrio cholera, and stomach acid. *Lancet* 2, 856–859, 1978.
- Nelson EJ et al., Cholera transmission: the host, pathogen and bacteriophage dynamic. *Nat. Rev. Microbiol.* 7, 693–702, 2009.
- Ogg JE, Ryder RA, Smith HL Jr, Isolation of *Vibrio cholerae* from aquatic birds in Colorado and Utah. *Appl. Environ. Microbiol.* 55, 95–99, 1989.
- Raufman JP, Cholera. *Am. J. Med.* 104, 386–394, 1998.
- Rhodes JB, Schweitzer D, Ogg JE. Isolation of non-O1 *Vibrio cholerae* associated with enteric disease of herbivores in western Colorado. *J. Clin. Microbiol.* 22, 572–575, 1985.
- Safa A, Nair GB, Kong RY, Evolution of new variants of *Vibrio cholerae* O1. *Trends Microbiol.* 18, 46–54, 2010.
- Seas C et al., Practical guidelines for the treatment of cholera. *Drugs* 51, 966–973, 1996.
- Shahinian ML et al., *Helicobacter pylori* and epidemic *Vibrio cholerae* O1 infection in Peru. *Lancet* 355, 377–378, 2000.
- Visser IJ et al., Isolation of *Vibrio cholerae* from diseased farm animals and surface water in The Netherlands. *Vet. Rec.* 144, 451–452, 1999.
- WHO, Cholera, 2010. WHO Weekly epidemiological record 31, 325–340, 2011.
- WHO/UNICEF, Oral rehydration salts. Production of the new ORS. WHO/FCH/CAH/06, Geneva, 2006.
- Zuckerman JN, Rombo L, Fisch A, The true burden and risk of cholera: implications for prevention and control. *Lancet Infect. Dis.* 7, 521–530, 2007.
- 2.25.2 Erkrankungen durch andere *Vibrio* spp.**
- Aigbivbalu L, Maraqa N, Photobacterium damsela wound infection in a 14-year-old surfer. *South. Med. J.* 102, 425–426, 2009.
- Austin B, Vibrios as causal agents of zoonoses. *Vet. Microbiol.* 140, 310–317, 2010.
- Bisharat N et al., Clinical, epidemiological, and microbiological features of *Vibrio vulnificus* biogroup 3 causing outbreaks of wound infection and bacteraemia in Israel. *Israel Vibrio Study Group. Lancet* 354, 1421–1424, 1999.
- Broberg CA, Calder TJ, Orth K, *Vibrio parahaemolyticus* cell biology and pathogenicity determinants. *Microbes Infect.* [Epub ahead of print], 2011.
- Derber C et al., *Vibrio furnissii*: an unusual cause of bacteremia and skin lesions after ingestion of seafood. *J. Clin. Microbiol.* 49, 2348–2349, 2011.
- Gomez JM et al., Necrotizing fasciitis due to *Vibrio alginolyticus* in an immunocompetent patient. *J. Clin. Microbiol.* 41, 3427–3429, 2003.
- Gras-Rouzet S et al., First European case of gastroenteritis and bacteremia due to *Vibrio hollisae*. *Eur. J. Clin. Microbiol. Infect. Dis.* 15, 864–866, 1996.
- Igbinosa EO, Okoh AI, *Vibrio fluvialis*: an unusual enteric pathogen of increasing public health concern. *Int. J. Environ. Res. Public Health* 7, 3628–3643, 2010.
- Kim HR et al., Septicemia progressing to fatal hepatic dysfunction in a cirrhotic patient after oral ingestion of *Photobacterium damsela*: a case report. *Infection* 37, 555–556, 2009.
- Kuo CH et al., Septic arthritis as the initial manifestation of fatal *Vibrio vulnificus* septicemia in a patient with thalassemia and iron overload. *Pediatr. Blood Cancer* 53, 1156–1158, 2009.
- Miron D et al., *Vibrio vulnificus* necrotizing fasciitis of the calf presenting with compartment syndrome. *Pediatr. Infect. Dis. J.* 22, 666–668, 2003.
- Nakamura, Y et al., Necrotizing fasciitis of the leg due to *Photobacterium damsela*. *J. Dermatol.* 35, 44–45, 2008.
- RKI, Hinweis auf mögliche Wundinfektionen durch *Vibrio vulnificus* bei Kontakt zu warmem Meerwasser. *Epidemiologisches Bulletin* 32, 277, 2006.
- Schets FM et al., Potentially human pathogenic vibrios in marine and fresh bathing waters related to environmental conditions and disease outcome. *Int. J. Hyg. Environ. Health* [Epub ahead of print], 2011.
- Shimohata T, Takahashi A, Diarrhea induced by infection of *Vibrio parahaemolyticus*. *J. Med. Invest.* 57, 179–182, 2010.
- Stephan R, Knabner D, *Vibrio vulnificus* – Erste Nachweise in Deutschland. *Bundesgesundheitsblatt* 39, 209–211, 1996.
- Tebbs R et al., Design and validation of a novel multiplex real-time PCR assay for *Vibrio* pathogen detection. *J. Food Prot.* 74, 939–948, 2011.

Tena D et al., Fulminant necrotizing fasciitis due to *Vibrio parahaemolyticus*. *J. Med. Microbiol.* 59, 235–238, 2010.

2.26 (Enterale) Yersiniosen (*Y. enterocolitica*, *Y. pseudotuberculosis*)

Ackers ML et al., An outbreak of *Yersinia enterocolitica* O:8 infections associated with pasteurized milk. *J. Infect. Dis.* 181, 1834–1837, 2000.

Aleksić S, Bockemühl J, Wuthe HH, Epidemiology of *Y. pseudotuberculosis* in Germany, 1983–1993. *Contrib. Microbiol. Immunol.* 13, 55–58, 1995.

Batzilla J et al., *Yersinia enterocolitica* paleo-arctica serobiotyp O:3/4 – a successful group of emerging zoonotic pathogens. *BMC Genomics* 12, 348, 2011.

Bockemühl J, Roggentin P, Enterale Yersiniosen. Klinische Bedeutung, Epidemiologie, Diagnostik und Prävention. *Bundesgesundheitsbl. Gesundheitsforsch. Gesundheitsschutz* 47, 685–691, 2004.

Carniel E et al., *Y. enterocolitica* and *Y. pseudotuberculosis*. In: *The Prokaryotes*, Volume 6: Proteobacteria: Gamma Subclass. Ed.: Dworkin, M., S. Falkow, E. Rosenberg et al. pp: 270–398. Springer-Verlag GmbH, Heidelberg, 2006.

Dube P, Interaction of *Yersinia* with the gut: mechanisms of pathogenesis and immune evasion. *Curr. Top. Microbiol. Immunol.* 337, 61–91, 2009.

Fenwick SG, Madie P, Wilks CR, Duration of carriage and transmission of *Yersinia enterocolitica* biotype 4, serotype O:3 in dogs. *Epidemiol. Infect.* 113, 471–477, 1994.

Fredriksson-Ahomaa M, *Yersinia enterocolitica* and *Yersinia pseudotuberculosis*. In: *Foodborne Diseases, Infectious Disease*. Ed.: Simjee, S.; pp: 79–113. 2007.

Fredriksson-Ahomaa M, Epidemiology of human *Yersinia Pseudotuberculosis* infection. *Arch. Lebensmittelhyg.* 60, 82–87, 2009.

Fredriksson-Ahomaa M, Stolle A, Korkeala H, Molecular epidemiology of *Yersinia enterocolitica* infections. *FEMS Immunol. Med. Microbiol.* 47, 315–329, 2006.

Fredriksson-Ahomaa M et al., Sporadic human *Yersinia enterocolitica* infections caused by bioserotype 4/O: 3 originate mainly

from pigs. *J. Med. Microbiol.* 55, 747–749, 2006.

Heesemann J, Sing A, Trülsch K, *Yersinia*'s stratagem: targeting innate and adaptive immune defense. *Curr. Opin. Microbiol.* 9, 55–61, 2006.

Hoelen DW et al., Severe *Yersinia enterocolitica* sepsis after blood transfusion. *Neth. J. Med.* 65, 301–303, 2007.

Laukkanen R et al., Contamination of carcasses with human pathogenic *Yersinia enterocolitica* 4/O:3 originates from pigs infected on farms. *Foodborne Pathog. Dis.* 6, 681–688, 2009.

Long C et al., *Yersinia pseudotuberculosis* and *Y. enterocolitica* infections, FoodNet, 1996–2007. *Emerg. Infect. Dis.* 16, 566–567, 2010.

Neubauer HK, Sprague LD, Epidemiology and diagnostics of *Yersinia*-infections. *Adv. Exp. Med. Biol.* 529, 431–438, 2003.

Nowgesic E et al., Outbreak of *Yersinia pseudotuberculosis* in British Columbia – November 1998. *Can. Commun. Dis. Rep.* 25, 97–100, 1999.

Rimhanen-Finne R et al., *Yersinia pseudotuberculosis* causing a large outbreak associated with carrots in Finland, 2006. *Epidemiol. Infect.* 137, 342–347, 2009.

RKI, Fallberichte: Enteritis durch *Yersinia enterocolitica*, Serogruppe O:8, Biovar 1B. *Epid. Bull.* 43, 369–370, 2004.

Rosner BM, Stark K, Werber D, Epidemiology of reported *Yersinia enterocolitica* infections in Germany, 2001–2008. *BMC Public Health* 10, 337, 2010.

Thompson JS, Gravel MJ, Family outbreak of gastroenteritis due to *Yersinia enterocolitica* serotype O:3 from well water. *Can. J. Microbiol.* 32, 700–701, 1986.

Tipple MA et al., Sepsis associated with transfusion of red cells contaminated with *Yersinia enterocolitica*. *Transfusion (Paris)* 30, 207–213, 1990.

Tobback E et al., *Yersinia ruckeri* infections in salmonid fish. *J. Fish Dis.* 30, 257–268, 2007.

Viboud GI, Bliska JB, *Yersinia* outer proteins: role in modulation of host cell signaling responses and pathogenesis. *Annu. Rev. Microbiol.* 59, 69–89, 2005.

Virdi JS, Sachdeva P, Molecular heterogeneity in *Yersinia enterocolitica* and „*Y. enterocolitica*-like“ species – Implications for epidemiology, typing and taxonomy.

FEMS Immunol. Med. Microbiol. 45, 1–10, 2005.

2.27 Seltener diagnostizierte und potenzielle bakterielle Zoonosen-Erreger

2.27.1 Actinobacillus-Infektionen

- Ashhurst-Smith C et al., Actinobacillus equuli septicemia: an unusual zoonotic infection. J. Clin. Microbiol. 36, 2789–2790, 1998.
- Benaoudia F, Escande F, Simonet M, Infection due to Actinobacillus lignieresii after a horse bite. Eur. J. Clin. Microbiol. Infect. Dis. 13, 439–440, 1994.
- Brook I, Management of human and animal bite wound infection: an overview. Curr. Infect. Dis. Rep. 11, 389–395, 2009.
- Dibb WL, Digranes A, Tonjum S, Actinobacillus lignieresii infection after a horse bite. Br. Med. J. (Clin. Res. Ed.) 283, 583–584, 1981.
- Escande F et al., Actinobacillus suis infection after a pig bite. Lancet 348, 888, 1996.
- Peel MM et al., Actinobacillus spp. and related bacteria in infected wounds of humans bitten by horses and sheep. J. Clin. Microbiol. 29, 2535–2538, 1991.

2.27.2 Arcanobacterium pyogenes-Infektion

- Brook I, Dohar JE, Management of group A beta-hemolytic streptococcal pharyngotonsillitis in children. J. Fam. Pract. 55, S1–11; quiz S12, 2006.
- Dias CAG, Cauduro PF, Mezzari A, Actinomyces pyogenes isolated from a subcutaneous abscess in a dairy farmer. Clin Microbiol Newsl 18, 38–40, 1996.
- Drancourt M et al., Two cases of Actinomyces pyogenes infection in humans. Eur. J. Clin. Microbiol. Infect. Dis. 12, 55–57, 1993.
- Gahrn-Hansen B, Frederiksen W, Human infections with Actinomyces pyogenes (Corynebacterium pyogenes). Diagn. Microbiol. Infect. Dis. 15, 349–354, 1992.
- Hijazin M et al., Molecular identification and further characterization of Arcanobacterium pyogenes isolated from bovine mastitis and from various other origins. J. Dairy Sci. 94, 1813–1819, 2011.
- Jost BH, Billington SJ, Arcanobacterium pyogenes: molecular pathogenesis of an animal

opportunism. Antonie van Leeuwenhoek 88, 87–102, 2005.

- Kavitha K et al., Three cases of Arcanobacterium pyogenes-associated soft tissue infection. J. Med. Microbiol. 59, 736–739, 2010.
- Lynch M et al., Actinomyces pyogenes septic arthritis in a diabetic farmer. J. Infect. 37, 71–73, 1998.
- Plamondon M et al., A fatal case of Arcanobacterium pyogenes endocarditis in a man with no identified animal contact: case report and review of the literature. Eur. J. Clin. Microbiol. Infect. Dis. 26, 663–666, 2007.

2.27.3 Arcobacter-Infektionen

- Anderson KF et al., Arcobacter (Campylobacter) butzleri-associated diarrheal illness in a nonhuman primate population. Infect. Immun. 61, 2220–2223, 1993.
- Collado L, Figueras MJ, Taxonomy, epidemiology, and clinical relevance of the genus Arcobacter. Clin. Microbiol. Rev. 24, 174–192, 2011.
- Debruyne L, Gevers D, Vandamme P, Taxonomy of the family Campylobacteriaceae. In: Campylobacter. Ed.: Nachamkin I, Szymanski CM, Blaser M; pp: 3–26. ASM Press, Washington DC, USA, 2008.
- Higgins R et al., Arcobacter butzleri isolated from a diarrhoeic non-human primate. Lab. Anim. 33, 87–90, 1999.
- Ho HT, Lipman LJ, Gaastra W, Arcobacter, what is known and unknown about a potential foodborne zoonotic agent. Vet. Microbiol. 115, 1–13, 2006.
- Houf K et al., Dogs as carriers of the emerging pathogen Arcobacter. Vet. Microbiol. 130, 208–213, 2008.
- Houf K et al., Antimicrobial susceptibility patterns of Arcobacter butzleri and Arcobacter cryaerophilus strains isolated from humans and broilers. Microb. Drug Resist. 10, 243–247, 2004.
- Hsueh PR et al., Bacteremia caused by Arcobacter cryaerophilus 1B. J. Clin. Microbiol. 35, 489–491, 1997.
- On SL, Stacey A, Smyth J, Isolation of Arcobacter butzleri from a neonate with bacteraemia. J. Infect. 31, 225–227, 1995.
- van Driessche E et al., Isolation of Arcobacter species from animal feces. FEMS Microbiol. Lett. 229, 243–248, 2003.

- Vandenberg O et al., Antimicrobial susceptibility of clinical isolates of non-jejuni/coli campylobacters and arcobacters from Belgium. *J. Antimicrob. Chemother.* 57, 908–913, 2006.
- Wybo I et al., Isolation of *Arcobacter skirrowii* from a patient with chronic diarrhea. *J. Clin. Microbiol.* 42, 1851–1852, 2004.
- 2.27.4 Bordetella bronchiseptica-Infektionen**
- Bauwens JE et al., *Bordetella bronchiseptica* pneumonia and bacteremia following bone marrow transplantation. *J. Clin. Microbiol.* 30, 2474–2475, 1992.
- Choy KW et al., *Bordetella bronchiseptica* respiratory infection in a child after bone marrow transplantation. *Pediatr. Infect. Dis. J.* 18, 481–483, 1999.
- Dworkin MS et al., *Bordetella bronchiseptica* infection in human immunodeficiency virus-infected patients. *Clin. Infect. Dis.* 28, 1095–1099, 1999.
- Gisel JJ, Brumble LM, Johnson MM, *Bordetella bronchiseptica* pneumonia in a kidney-pancreas transplant patient after exposure to recently vaccinated dogs. *Transpl. Infect. Dis.* 12, 73–76, 2010.
- Goldberg et al., „Kennel cough“ in a patient following allogeneic hematopoietic stem cell transplant. *Bone Marrow Transplant.* 44, 381–382, 2009.
- Gore TM et al., Intranasal kennel cough vaccine protecting dogs from experimental *Bordetella bronchiseptica* challenge within 72 hours. *Vet. Rec.* 156, 482–483, 2005.
- Gueirard PC et al., Human *Bordetella bronchiseptica* infection related to contact with infected animals: persistence of bacteria in host. *J. Clin. Microbiol.* 33, 2002–2006, 1995.
- Hemsworth S, Pizer B, Pet ownership in immunocompromised children – a review of the literature and survey of existing guidelines. *Eur. J. Oncol. Nurs.* 10, 117–127, 2006.
- Huebner ES et al., Hospital-acquired *Bordetella bronchiseptica* infection following hematopoietic stem cell transplantation. *J. Clin. Microbiol.* 44, 2581–2583, 2006.
- Libanore M et al., *Bordetella bronchiseptica* pneumonia in an AIDS patient: a new opportunistic infection. *Infection* 23, 312–313, 1995.
- Ner Z et al., *Bordetella bronchiseptica* infection in pediatric lung transplant recipients. *Pediatr. Transplant.* 7, 413–417, 2003.
- Redelman-Sidi G, Grommes C, Papanicolaou G, Kitten-transmitted *Bordetella bronchiseptica* infection in a patient receiving temozolomide for glioblastoma. *J. Neurooncol.* 102, 335–339, 2011.
- Schimmel D, Hillert R, Hänel I, Infektionen des Menschen mit *Bordetella bronchiseptica* und Infektionen beim Pferd. *Bundesgesundhbl.* 41, 150–152, 1998.
- Stefanelli PP et al., Molecular characterization of two *Bordetella bronchiseptica* strains isolated from children with coughs. *J. Clin. Microbiol.* 35, 1550–1555, 1997.
- Wernli D et al., Evaluation of eight cases of confirmed *Bordetella bronchiseptica* infection and colonization over a 15-year period. *Clin. Microbiol. Infect.* 17, 201–203, 2011.
- Woolfrey BF, Moody JA, Human infections associated with *Bordetella bronchiseptica*. *Clin. Microbiol. Rev.* 4, 243–255, 1991.
- 2.27.5 Capnocytophaga-Infektionen**
- Gaastra W, Lipman LJ, *Capnocytophaga canimorsus*. *Vet. Microbiol.* 140, 339–346, 2010.
- Gerster JC, Dudler J, Cellulitis caused by *Capnocytophaga cynodegmi* associated with etanercept treatment in a patient with rheumatoid arthritis. *Clin. Rheumatol.* 23, 570–571, 2004.
- Kooter AJ, Derks A, Vasmel WL, Rapidly progressive tricuspid valve endocarditis caused by *Capnocytophaga canimorsus* infection in an immunocompetent host. *Clin. Microbiol. Infect.* 5, 173–175, 1999.
- Le Meur A et al., Acute tenosynovitis of the ankle due to *Capnocytophaga cynodegmi/canimorsus* as identified by 16S rRNA gene sequencing. *Joint Bone Spine* 75, 749–751, 2008.
- Le Moal G et al., Meningitis due to *Capnocytophaga canimorsus* after receipt of a dog bite: case report and review of the literature. *Clin. Infect. Dis.* 36, e42–46, 2003.
- Lion C, Escande F, Burdin JC, *Capnocytophaga canimorsus* infections in human: review of the literature and cases report. *Eur. J. Epidemiol.* 12, 521–533, 1996.

- Oehler RL et al., Bite-related and septic syndromes caused by cats and dogs. *Lancet Infect. Dis.* 9, 439–447, 2009.
- Pers C, Gahrn-Hansen B, Frederiksen W, Capnocytophaga canimorsus septicemia in Denmark, 1982–1995: review of 39 cases. *Clin. Infect. Dis.* 23, 71–75, 1996.
- Pers C et al., Capnocytophaga cynodegmi peritonitis in a peritoneal dialysis patient. *J. Clin. Microbiol.* 45, 3844–3846, 2007.
- Sandoe JA, Capnocytophaga canimorsus endocarditis. *J. Med. Microbiol.* 53, 245–248, 2004.
- Suzuki M et al., Prevalence of Capnocytophaga canimorsus and Capnocytophaga cynodegmi in dogs and cats determined by using a newly established species-specific PCR. *Vet. Microbiol.* 144, 172–176, 2010.
- Chary S et al., Septicemia due to Capnocytophaga canimorsus following dog bite in an elderly male. *Indian J. Pathol. Microbiol.* 54, 368–370, 2011.
- Ciantar M et al., Assessment of five culture media for the growth and isolation of Capnocytophaga spp. *Clin. Microbiol. Infect.* 7, 158–160, 2001.
- Dilegge SK, Edgcomb VP, Leadbetter ER, Presence of the oral bacterium Capnocytophaga canimorsus in the tooth plaque of canines. *Vet. Microbiol.* 149, 437–445, 2011.
- O'Rourke GA, Rothwell R, Capnocytophaga canimorsis a cause of septicaemia following a dog bite: a case review. *Aust. Crit. Care* 24, 93–99, 2011.
- Sarma PS, Mohanty S, Capnocytophaga cynodegmi cellulitis, bacteremia, and pneumonitis in a diabetic man. *J. Clin. Microbiol.* 39, 2028–2029, 2001.
- 2.27.6 Corynebacterium pseudotuberculosis-Infektionen**
- Dorella FA et al., Corynebacterium pseudotuberculosis: microbiology, biochemical properties, pathogenesis and molecular studies of virulence. *Vet. Res.* 37, 201–218, 2006.
- Hémond V et al., Axillary lymphadenitis due to Corynebacterium pseudotuberculosis in a 63-year-old patient. *Med. Mal. Infect.* 39, 136–139, 2009.
- House RW et al., Corynebacterium ovis (pseudo-tuberculosis) lymphadenitis in a sheep farmer: a new occupational disease in New Zealand. *N. Z. Med. J.* 99, 659–662, 1986.
- Join-Lambert OF et al., Corynebacterium pseudotuberculosis necrotizing lymphadenitis in a twelve-year-old patient. *Pediatr. Infect. Dis. J.* 25, 848–851, 2006.
- Liu DT et al., An infected hydrogel buckle with Corynebacterium pseudotuberculosis. *Br. J. Ophthalmol.* 89, 245–246, 2005.
- Mills AE, Mitchell RD, Lim EK, Corynebacterium pseudotuberculosis is a cause of human necrotising granulomatous lymphadenitis. *Pathology (Phila.)* 29, 231–233, 1997.
- Peel MM et al., Human lymphadenitis due to Corynebacterium pseudotuberculosis: report of ten cases from Australia and review. *Clin. Infect. Dis.* 24, 185–191, 1997.
- Richards M, Hurse A, Corynebacterium pseudotuberculosis abscesses in a young butcher. *Aust. N. Z. J. Med.* 15, 85–86, 1985.
- 2.27.7 Corynebacterium ulcerans-Infektionen**
- Contzen M et al., Corynebacterium ulcerans from Diseased Wild Boars. *Zoonoses Public Health* doi: 10.1111/j.1863-2378.2011.01396.x. [Epub ahead of print], 2011.
- de Carpentier JP et al., Nasopharyngeal Corynebacterium ulcerans: a different diphtheria. *J. Laryngol. Otol.* 106, 824–826, 1992.
- De Zoysa A et al., Characterization of toxigenic Corynebacterium ulcerans strains isolated from humans and domestic cats in the United Kingdom. *J. Clin. Microbiol.* 43, 4377–4381, 2005.
- Dessau RB et al., Pulmonary nodules due to Corynebacterium ulcerans. *Eur. Respir. J.* 8, 651–653, 1995.
- Dewinter LM, Bernard KA, Romney MG, Human clinical isolates of Corynebacterium diphtheriae and Corynebacterium ulcerans collected in Canada from 1999 to 2003 but not fitting reporting criteria for cases of diphtheria. *J. Clin. Microbiol.* 43, 3447–3449, 2005.
- Dias AA et al., Strain-dependent arthritogenic potential of the zoonotic pathogen Corynebacterium ulcerans. *Vet. Microbiol.* 2011.
- Groman N, Schiller J, Russell J, Corynebacterium ulcerans and Corynebacterium pseudotuberculosis responses to DNA probes derived from coryneophage beta and Corynebacterium diphtheriae. *Infect. Immun.* 45, 511–517, 1984.

- Hatanaka AA et al., *Corynebacterium ulcerans* diphtheria in Japan. *Emerg. Infect. Dis.* 9, 752–753, 2003.
- Hogg RA et al., Possible zoonotic transmission of toxigenic *Corynebacterium ulcerans* from companion animals in a human case of fatal diphtheria. *Vet. Rec.* 165, 691–692, 2009.
- Kimura Y et al., Acute peritonitis due to *Corynebacterium ulcerans* in a patient receiving continuous ambulatory peritoneal dialysis: a case report and literature review. *Clin. Exp. Nephrol.* 15, 171–174, 2011.
- Lartigue MF et al., *Corynebacterium ulcerans* in an immunocompromised patient with diphtheria and her dog. *J. Clin. Microbiol.* 43, 999–1001, 2005.
- Mattos-Guaraldi AL et al., First detection of *Corynebacterium ulcerans* producing a diphtheria-like toxin in a case of human with pulmonary infection in the Rio de Janeiro metropolitan area, Brazil. *Mem. Inst. Oswaldo Cruz* 103, 396–400, 2008.
- Schuhegger R et al., Pigs as source for toxigenic *Corynebacterium ulcerans*. *Emerg. Infect. Dis.* 15, 1314–1315, 2009.
- Tiwari TS et al., Investigations of 2 cases of diphtheria-like illness due to toxigenic *Corynebacterium ulcerans*. *Clin. Infect. Dis.* 46, 395–401, 2008.
- Wagner J al., Infection of the skin caused by *Corynebacterium ulcerans* and mimicking classical cutaneous diphtheria. *Clin. Infect. Dis.* 33, 1598–1600, 2001.
- Wagner KS et al., Diphtheria in the United Kingdom, 1986–2008: the increasing role of *Corynebacterium ulcerans*. *Epidemiol. Infect.* 138, 1519–1530, 2010.
- Wellinghausen N et al., A fatal case of necrotizing sinusitis due to toxigenic *Corynebacterium ulcerans*. *Int. J. Med. Microbiol.* 292, 59–63, 2002.
- von Hunolstein C et al., Molecular epidemiology and characteristics of *Corynebacterium diphtheriae* and *Corynebacterium ulcerans* strains isolated in Italy during the 1990s. *J. Med. Microbiol.* 52, 181–188, 2003.
- 2.27.8 Dermatophilus congolensis-Infektionen**
- Amor A et al., infection by *Dermatophilus congolensis* underdiagnosed? *J. Clin. Microbiol.* 49, 449–451, 2011.
- Buenviaje GN et al., Isolation of *Dermatophilus* sp. from skin lesions in farmed saltwater crocodiles (*Crocodylus porosus*). *Aust. Vet. J.* 75, 365–367, 1997.
- Burd EM et al., Pustular dermatitis caused by *Dermatophilus congolensis*. *J. Clin. Microbiol.* 45, 1655–1658, 2007.
- Harman M, Sekin S, Akdeniz S, Human dermatophilosis mimicking ringworm. *Br. J. Dermatol.* 145, 170–171, 2001.
- Norris BJ, Colditz IG, Dixon TJ, Fleece rot and dermatophilosis in sheep. *Vet. Microbiol.* 128, 217–230, 2008.
- Towersey L et al., *Dermatophilus congolensis* human infection. *J. Am. Acad. Dermatol.* 29, 351–354, 1993.
- Yeruham I, Hadani A, Elad E, Human dermatophilosis (*Dermatophilus congolensis*) in dairy men in Israel. *Isr J Vet Med* 46, 114–116, 1991.
- Zaria LT, *Dermatophilus congolensis* infection (Dermatophilosis) in animals and man. An update. *Comp. Immunol. Microbiol. Infect. Dis.* 16, 179–222, 1993.
- 2.27.9 Helicobacter-Infektionen**
- De Bock MK et al., Peptic ulcer disease associated with *Helicobacter felis* in a dog owner. *Eur. J. Gastroenterol. Hepatol.* 19, 79–82, 2007.
- De Groote D, Ducatelle R, Haesebrouck F, *Helicobacters* of possible zoonotic origin: a review. *Acta Gastroenterol. Belg.* 63, 380–387, 2000.
- El-Zaatari FA et al., Failure to isolate *Helicobacter pylori* from stray cats indicates that *H. pylori* in cats may be an anthroponosis – an animal infection with a human pathogen. *J. Med. Microbiol.* 46, 372–376, 1997.
- Fox JG et al., *Helicobacter pylori*-induced gastritis in the domestic cat. *Infect. Immun.* 63, 2674–2681, 1995.
- Goldman CG, Mitchell HM, *Helicobacter* spp. other than *Helicobacter pylori*. *Helicobacter* 15, Suppl 1, 69–75, 2010.
- Haesebrouck F et al., Gastric *helicobacters* in domestic animals and nonhuman primates and their significance for human health. *Clin. Microbiol. Rev.* 22, 202–223, 2009.
- Handt LK, Fox JG, Dewhirst FE et al., *Helicobacter pylori* isolated from the domestic cat: public health implications. *Infect. Immun.* 62, 2367–2374, 1994.

- Hsueh P et al., Septic shock due to *Helicobacter fennelliae* in a non-human immunodeficiency virus-infected heterosexual patient. *J. Clin. Microbiol.* 37, 2084–2086, 1999.
- Jalava K et al., A cultured strain of „*Helicobacter heilmannii*,“ a human gastric pathogen, identified as *H. bizzozeronii*: evidence for zoonotic potential of *Helicobacter*. *Emerg. Infect. Dis.* 7, 1036–1038, 2001.
- Kist M, Klöcker E, Suerbaum S, Pathogenese, Diagnostik und Therapie der *Helicobacter pylori*-Infektion. *Bundesgesundheitsblatt – Gesundheitsforschung – Gesundheitsschutz* 48, 669–678, 2005.
- Leemann C et al., First case of bacteremia and multifocal cellulitis due to *Helicobacter canis* in an immunocompetent patient. *J. Clin. Microbiol.* 44, 4598–4600, 2006.
- Marshall BJ, Windsor HM, The relation of *Helicobacter pylori* to gastric adenocarcinoma and lymphoma: pathophysiology, epidemiology, screening, clinical presentation, treatment, and prevention. *Med. Clin. North Am.* 89, 313–344, viii, 2005.
- Solnick JV, Schauer DB, Emergence of diverse *Helicobacter* species in the pathogenesis of gastric and enterohepatic diseases. *Clin. Microbiol. Rev.* 14, 59–97, 2001.
- Warren J, *Helicobacter* R, The ease and difficulty of a new discovery (Nobel lecture). *Chemmedchem* 1, 672–685, 2006.
- 2.27.10 Rhodococcus equi-Infektionen**
- Akilesh S et al., Pseudotumor of the tracheal-laryngeal junction with unusual morphologic features caused by *Rhodococcus equi* infection. *Head Neck Pathol* [Epub ahead of print] 2011.
- Guerrero R, Bhargava A, Nahleh Z, *Rhodococcus equi* venous catheter infection: a case report and review of the literature. *J. Med. Case Reports* 5, 358, 2011.
- Letek M et al., The genome of a pathogenic *Rhodococcus*: cooptive virulence underpinned by key gene acquisitions. *PLoS Genet.* 6, 2010.
- Makrai L et al., Characterisation of *Rhodococcus equi* strains isolated from foals and from immunocompromised human patients. *Acta Vet. Hung.* 48, 253–259, 2000.
- Meijer WG, Prescott JF, *Rhodococcus equi*. *Vet. Res.* 35, 383–396, 2004.
- Ocampo-Sosa AA et al., Molecular epidemiology of *Rhodococcus equi* based on *traA*, *vapA*, and *vapB* virulence plasmid markers. *J. Infect. Dis.* 196, 763–769, 2007.
- Perez MG, Vassilev T, Kemmerly SA, *Rhodococcus equi* infection in transplant recipients: a case of mistaken identity and review of the literature. *Transpl. Infect. Dis.* 4, 52–56, 2002.
- Pusterla N et al., Diagnostic evaluation of real-time PCR in the detection of *Rhodococcus equi* in faeces and nasopharyngeal swabs from foals with pneumonia. *Vet. Rec.* 161, 272–275, 2007.
- Roda RH et al., *Rhodococcus equi* pulmonary-central nervous system syndrome: brain abscess in a patient on high-dose steroids – a case report and review of the literature. *Diagn. Microbiol. Infect. Dis.* 63, 96–99, 2009.
- Rodríguez-Lázaro D et al., Internally controlled real-time PCR method for quantitative species-specific detection and *vapA* genotyping of *Rhodococcus equi*. *Appl. Environ. Microbiol.* 72, 4256–4263, 2006.
- Scott M et al., *Rhodococcus equi* – an increasingly recognized opportunistic pathogen. Report of 12 cases and review of 65 cases in the literature. *Am. J. Clin. Pathol.* 103, 649–655, 1995.
- Topino S et al., *Rhodococcus equi* infection in HIV-infected individuals: case reports and review of the literature. *AIDS Patient Care STDS* 24, 211–222, 2010.
- Verville TD et al., *Rhodococcus equi* infections of humans. 12 cases and a review of the literature. *Medicine (Baltimore)* 73, 119–132, 1994.

3 Durch Pilze hervorgerufene Zoonosen

3.2 Mikrosporidie

- Brasch J, Dermatophytenspezies: „Neue“ Taxonomie und „neue“ Taxa. *Hautarzt* 59, 971–979, 2008.
- Chermette R, Ferreiro L, Guillot J, Dermatophytosen in animals. *Mycopathologia* 166, 385–405, 2008.
- Gräser Y, Scott J, Summerbell R, The new species concept in dermatophytes – a polyphasic approach. *Mycopathologia* 166, 239–256, 2010.
- Kefalidou S et al., Wood's light in *Microsporum canis* positive patients. *Mycoses* 40, 461–463, 1997.
- Pönnighaus JM, Warndorff D, Port G, *Microsporum nanum* – a report from Malawi (Africa). *Mycoses* 38, 149–150, 1995.
- Weitzman I, Summerbell RC, The dermatophytes. *Clin. Microbiol. Rev.* 8, 240–259, 1995.

3.3 Trichophytie

- Bergmans AM et al., Evaluation of a single-tube real-time PCR for detection and identification of 11 dermatophyte species in clinical material. *Clin. Microbiol. Infect.* 16, 704–710, 2010.
- Brasch J, Dermatophytenspezies: „Neue“ Taxonomie und „neue“ Taxa. *Hautarzt* 59, 971–979, 2008.
- Chermette R, Ferreiro L, Guillot J, Dermatophytosen in animals. *Mycopathologia* 166, 385–405, 2008.
- Drouot S et al., Pets as the main source of two zoonotic species of the Trichophyton mentagrophytes complex in Switzerland, *Arthroderma vanbreuseghemii* and *Arthroderma benhamiae*. *Veterinary Dermatology* 20, 13–18, 2009.
- Fumeaux J et al., First report of *Arthroderma benhamiae* in Switzerland. *Dermatology* 208, 244–250, 2004.
- Gräser Y, Scott J, Summerbell R, The new species concept in dermatophytes – a polyphasic approach. *Mycopathologia* 166, 239–256, 2010.
- Gründer S et al., Mycological examinations on the fungal flora of the chicken comb. *Mycoses* 48, 114–119, 2005.

- Kick G, Korting HC, Tinea barbae due to Trichophyton mentagrophytes related to persistent child infection. *Mycoses* 41, 439–441, 1998.
- Liu D et al., Use of arbitrarily primed polymerase chain reaction to differentiate Trichophyton dermatophytes. *FEMS Microbiol. Lett.* 136, 147–150, 1996.
- Romano C et al., Case reports. Six cases of infection due to *Trichophyton verrucosum*. *Mycoses* 44, 334–337, 2001.
- Salkin IF, Padhye AA, Kemna ME, A new medium for the presumptive identification of dermatophytes. *J. Clin. Microbiol.* 35, 2660–2662, 1997.
- Weber A, Mykoozoonosen unter besonderer Berücksichtigung der Rindertrichophytie. *Mycoses* 43, Suppl. 1, 20–22, 2000.
- Weitzman I, Summerbell RC, The dermatophytes. *Clin. Microbiol. Rev.* 8, 240–259, 1995.

3.4 Sporotrichose

- Alves SH et al., *Sporothrix schenckii* associated with armadillo hunting in Southern Brazil: epidemiological and antifungal susceptibility profiles. *Rev. Soc. Bras. Med. Trop.* 43, 523–525, 2010.
- Barile F et al., Cutaneous sporotrichosis in the period 1978–1992 in the province of Bari, Apulia, Southern Italy. *Mycoses* 36, 181–185, 1993.
- Bonifaz A, Vázquez-González D, Perusquia-Ortiz AM, Subcutaneous mycoses: chromoblastomycosis, sporotrichosis and mycetoma. *J. Dtsch. Dermatol. Ges.* 8, 619–627, 2010.
- Carlos IZ et al., Current research on the immune response to experimental sporotrichosis. *Mycopathologia* 168, 1–10, 2009.
- Clay BM, Amand VK, Sporotrichosis: nasal obstruction in an infant. *Am. J. Otolaryngol.* 17, 75–77, 1996.
- Crothers SL et al., Sporotrichosis: a retrospective evaluation of 23 cases seen in northern California (1987–2007). *Vet. Dermatol.* 20, 249–259, 2009.
- Fleury RN et al., Zoonotic sporotrichosis. Transmission to humans by infected domestic cat scratching: report of four cases in Sao Paulo, Brazil. *Int. J. Dermatol.* 40, 318–322, 2001.

- Kaddad V et al., Localized lymphatic sporotrichosis after fish-induced injury (*Tilapia* sp.). *Med. Mycol.* 40, 425–427, 2002.
- Kauffman CA, Sporotrichosis. *Clin. Infect. Dis.* 29, 231–236, 1999.
- Kauffman CA, Hajjeh R, Chapman SW, Practice guidelines for the management of patients with sporotrichosis. *Clin. Infect. Dis.* 30, 684–687, 2000.
- Kauffman CA, Bustamante B, Chapman SW, Clinical practice guidelines for the management of sporotrichosis. 2007 update of the Infectious Diseases Society of America. *Clin. Infect. Dis.* 45, 1255–1265.
- Noguchi H, Hiruma M, Kawada A, Sporotrichosis successfully treated with itraconazole in Japan. *Mycoses* 42, 571–576, 1999.
- Ramos-e-Silva M et al., Sporotrichosis. *Clin. Dermatol.* 25, 181–187, 2007.
- Reed KD et al., Zoonotic transmission of sporotrichosis: case report and review. *Clin. Infect. Dis.* 16, 384–387, 1993.
- Reis RS et al., Molecular characterisation of *Sporothrix schenckii* isolates from humans and cats involved in the sporotrichosis epidemic in Rio de Janeiro, Brazil. *Mem. Inst. Oswaldo Cruz.* 104, 769–774, 2009.
- Saravanakumar PS, Eslami P, Zar FA, Lymphocutaneous sporotrichosis associated with a squirrel bite: case report and review. *Clin. Infect. Dis.* 23, 647–648, 1996.
- Schubach A, Barros MB, Wanke B, Epidemic sporotrichosis. *Curr. Opin. Infect. Dis.* 21, 129–133, 2008.
- Durand-Joly I et al., *Pneumocystis carinii* f. sp. *hominis* is not infectious for SCID mice. *J. Clin. Microbiol.* 40, 1862–1865, 2002.
- Edman JC et al., Ribosomal RNA sequence shows *Pneumocystis carinii* to be a member of the fungi. *Nature* 334, 519–522, 1988.
- Evans R, Ho-Yen DO, Nested PCR is useful to the clinician in the diagnosis of *Pneumocystis carinii* pneumonia. *J. Infect.* 40, 207–208, 2000.
- Morris A, Beard CB, Huang L, Update on the epidemiology and transmission of *Pneumocystis carinii*. *Microbes and Infection* 4, 95–103, 2002.
- Morris A et al., Improved survival with highly active antiretroviral therapy in HIV-infected patients with severe *Pneumocystis carinii* pneumonia. *AIDS* 17, 73–80, 2003.
- Schliep TC, Yarrish RL, *Pneumocystis carinii* pneumonia. *Semin. Respir. Inf.* 14, 333–343, 1999.
- Stringer JR, *Pneumocystis*. *Int. J. Med. Microbiol.* 292, 391–404, 2002.
- Stringer JR et al., A new name (*Pneumocystis jirovecii*) for *Pneumocystis* from humans. *Emerg. Infect. Dis.* 8, 891–896, 2002.

3.5 Pneumozystose

- Agostoni F et al., *Pneumocystis carinii* diagnosis: an update. *Int. J. Antimicrob. Agents* 16, 549–557, 2000.
- Beard CB et al., Strain typing methods and molecular epidemiology of *Pneumocystis pneumonia*. *Emerg. Infect. Dis.* 10, 1729–1735, 2004.
- CDC, 1999 USPHS/IDSA Guidelines for the prevention of opportunistic infections in persons infected with human immunodeficiency virus. *Morb. Mortal. Weekly Reports* 48, RR–10, 1999.
- Chabé M et al., *Pneumocystis*: from a doubtful unique entity to a group of highly diversified fungal species. *FEMS Yeast Research*, 11, 2–17, 2011.

4 Durch Parasiten hervorgerufene Zoonosen

4.1 Einführung

- Anderson RC, Nematode parasites of vertebrates. Their development and transmission. CAB International, Wallingford, Oxon, 2000.
- Anderson RC, Chabaud AG, Willmott S, Key to the nematodes of vertebrates. CABI Publishing, Wallingford, UK, 2009.
- Ash LR, Orihel TC, Atlas of human parasitology, 3rd edition. ASCP Press, Chicago, 1990.
- Ash LR, Orihel TC, Parasites. A guide to laboratory procedures and identification. ASCP Press, Chicago, 1987.
- Barrat JL et al., The ambiguous life of *Dientamoeba fragilis*: the need to investigate current hypotheses on transmission. *Parasitology*, 138, 557–572, 2011.
- Berufsgenossenschaft Chemie, Einstufung biologischer Arbeitsstoffe: Parasiten. Besondere Schutzmaßnahmen für Tätigkeiten mit Parasiten. Berufsgenossenschaft der chemischen Industrie. Merkblatt B 005, BGI 632, 9/2001.
- Bogitsh BJ, Carter CE, Oeltmann TN, Human parasitology, 3rd edition. Elsevier: Burlington, MA.
- Brown D et al. (Eds.), Zoonoses. 2nd ed. Oxford University Press, Oxford, 2011.
- Burgess NRH, Cowan GO, A colour atlas of medical entomology. Chapman & Hall, London, 1993.
- Dorny P et al., Emerging food-borne parasites. *Vet. Parasitol.* 163, 196–206, 2009.
- Deplaces P et al., Lehrbuch der Parasitologie für die Tiermedizin. 3. Aufl. Enke-Verlag Stuttgart, 2012.
- Garcia LN, Bruckner DA, Diagnostic medical parasitology, 4th edition. ASM Press, Washington, DC, 2001.
- Hiepe T, Lucius R, Gottstein B, Allgemeine Parasitologie. Parey, Stuttgart, 2006.
- Isenberg HD (ed.), Essential procedures for clinical microbiology. ASM Press, Washington, DC, 1998.
- Kennedy M, Yermakov V, Infection of man with *Trichuris vulpis*, the whipworm of dogs. *Am. J. Trop. Med. Hyg.* 29, 1205–1208, 1980.
- Kettle PS, Medical and veterinary entomology. CAB International, Wallingford, 1990.
- Lane RP, Crossey RW (eds.), Medical insects and arachnids. Chapman & Hall, London, 1995.
- Lobato J et al., Detection of immunoglobulin G antibodies to *Neospora caninum* in humans: high seropositivity rates in patients who are infected by human immunodeficiency virus or have neurological disorders. *Clin. Vaccine Immunol.* 13, 84–89, 2006.
- Macpherson CN, Human behaviour and the epidemiology of parasitic zoonoses. *Int. J. Parasitol.* 35, 1319–1331, 2005.
- McCann CM et al., Lack of serologic evidence of *Neospora caninum* in humans, England. *Emerg. Infect. Dis.* 14, 978–980, 2008.
- Mehlhorn H (ed.), Encyclopedia of parasitology. 3rd edition. Springer-Verlag Heidelberg, 2008.
- Meyers WM (ed.), Pathology of infectious diseases, Vol. I Helminthiases. Armed Forces Institute of Pathology, Washington, DC, 2000.
- Ministry of Agriculture, Fisheries and Food, Manual of veterinary parasitological laboratory techniques. Reference Book 418. London, Her Majesty's Stationary Office, 1986.
- Olson PD, Tkach VV, Advances and trends in the molecular systematics of the parasitic plathelminthes. *Adv. Parasitol.* 60, 165–243, 2005.
- Orihel TC, Ash LA, Parasites in human tissues. ASCP Press, Chicago, 1995.
- Petersen E et al., *Neospora caninum* infection and repeated abortions in humans. *Emerg. Infect. Dis.* 5, 278–280, 1999.
- Pfäller MA, Garcia L (eds.), Parasitology. Section IX. In: Murray PR, Baron EJ, Pfäller MA et al. (eds.), Manual of clinical microbiology, 7th edition. ASM Press, Washington.
- Price DL, Intestinal protozoa in MIF. A reference set of photomicrographs of protozoa stained by the modified MIF method. Marion. Scientific. Corp., Kansas City, 1978.
- Robert-Gangneux F, Klein F, Serologic screening for *Neospora caninum*, France. *Emerg. Infect. Dis.* 15, 987–989, 2009.
- Schmidt GD, Handbook of tapeworm identification. CRC Press Inc., Boca Raton, 1986.
- Schnieder T (Hrsg.), Veterinärmedizinische Parasitologie. 6. Aufl., MVS Medizinverlage

- Stuttgart GmbH & Co. KG., Stuttgart, 2006.
- Singh S et al., *Trichuris vulpis* in an Indian tribal population. *J. Parasitol.* 79, 457–458, 1993.
- Taylor AER, Baker JR (eds.), *In vitro* methods for parasite cultivation. London, Academic Press, 1987.
- Thienpont D, Rochette F, Vanparijs OFJ, Diagnose von Helminthosen durch koproscopische Untersuchung. Jansen Research Foundation, 1979.
- Warren KS, Mahmoud AAF (eds.), *Tropical and geographical medicine*. 2nd edition. McGraw-Hill, New York, 1990.
- Weidner H, Bestimmungstabellen der Vorrats-schädlinge und des Hausungeziefers Mitteleuropas. Gustav Fischer Verlag, Stuttgart, 1993.
- Winzler EA, *Advances in parasite genomics: from sequences to regulatory networks*. *PLoS Pathog* 5(10): e1000649. doi: 10.1371/journal.ppat.1000649, 2009.
- WHO, *Basic laboratory methods in medical parasitology*. WHO, 1991.
- Yamaguti S, *Systema Helminthum*. Interscience Publ., New York, 1961.
- Yorke W, Maplestone Pa, *The nematode parasites of vertebrates*. Hafner Publishing Company, New York, 1962.
- scences. *Trop. Med. Int. Health* 8, 231–233, 2003.
- Chong EM, Dana MR, *Acanthamoeba keratitis*. *Int. Ophthalmol. Clin.* 47, 33–46, 2007.
- Dart JK, Saw VP, Kilvington S, *Acanthamoeba keratitis: diagnosis and treatment update* 2009. *Am. J. Ophthalmol.* 148, 487–499, 2009.
- Espinosa-Cantellano M, Martínez-Palomo A, Pathogenesis of intestinal amebiasis: From molecules to disease. *Clin. Microbiol. Rev.* 13, 318–331, 2000.
- Fotedar R et al., PCR detection of *Entamoeba histolytica*, *Entamoeba dispar*, and *Entamoeba moshkovskii* in stool samples from Sidney, Australia. *J. Clin. Microbiol.* 45, 1035–1037, 2007.
- Hamzah Z et al., Development of a real-time polymerase chain reaction for detection of *Entamoeba histolytica*, *Entamoeba dispar*, and *Entamoeba moshkovskii* in clinical specimen. *Am. J. Trop. Med. Hyg.* 83, 909–913, 2010.
- Haque R et al., Comparison of PCR, isoenzyme analysis, and antigen detection for diagnosis of *Entamoeba histolytica* infection. *J. Clin. Microbiol.* 36, 449–452, 1998.
- Heggie TW, Swimming with death: *Naegleria fowleri* infections in recreational waters. *Travel Med. Infect. Dis.* 8, 201–206, 2010.
- Huston CD, Parasite and host contribution to the pathogenesis of amebic colitis. *Trends Parasitol.* 20, 23–26, 2004.
- James R et al., Seroprevalence of *Entamoeba histolytica* infection among men who have sex with men in Sidney, Australia. *Am. J. Trop. Med. Hyg.* 83, 914–916, 2010.
- Leippe M et al., Ancient weapons: the three-dimensional structure of amoebapore A. *Trends Parasitol.* 21, 5–7, 2005.
- Marciano-Cabral F, Cabral G, *Acanthamoeba* spp. as agents of disease in humans. *Clin. Microbiol. Rev.* 16, 273–307, 2003.
- Mergeryan H, The prevalence of *Acanthamoeba* in the human environment. *Rev. Inf. Dis.* 13, Suppl. 5, 390–391, 1991.
- Mortimer L, Chadee K, The immunopathogenesis of *Entamoeba histolytica*. *Exp. Parasitol.* 126, 366–380, 2010.
- Murakawa GJ et al., Disseminated acanthamebiasis in patients with AIDS. A report of five cases and a review of the literature. *Arch. Dermatol.* 131, 1291–1296, 1995.
- Nishise S et al., Mass infection with *Entamoeba histolytica* in a Japanese institu-

4.2 Durch Protozoen verursachte Erkrankungen

4.2.1 Amöbose

- Ali IK, Clark CG, Petri Jr WA, Molecular epidemiology of amebiasis. *Infect. Genet. Evol.* 8, 698–707, 2008.
- Bakardjiev A et al., Amebic encephalitis caused by *Balamuthia mandrillaris*: report of four cases. *Pediatr. Infect. Dis. J.* 22, 447–453, 2003.
- Baxt LA, Singh U, New insights into *Entamoeba histolytica* pathogenesis. *Curr. Opin. Infect. Dis.* 21, 489–494, 2008.
- Blessmann J et al., Real-time PCR for detection and differentiation of *Entamoeba histolytica* and *Entamoeba dispar* in fecal samples. *J. Clin. Microbiol.* 40, 4413–4417, 2002.
- Blessmann J, Le Van A, Tannich E, Hepatic ultrasound in a population with high incidence of invasive amoebiasis: evidence for subclinical, self-limited amoebic liver ab-

- tion for individuals with mental retardation: epidemiology and control measures. *Ann. Trop. Med. Parasitol.* 104, 383–390, 2010.
- Padilla-Vaca F, Anaya-Velázquez F, Insights into *Entamoeba histolytica* virulence modulation. *Infect. Disord. Drug Targets* 10, 242–250, 2010.
- Parshad S et al., Primary cutaneous amoebiasis: case report with review of the literature. *Int. J. Dermatol.* 41, 676–680, 2002.
- Reddy AK et al., *Dictyostelium polycephalum* infection of human cornea. *Emerg. Infect. Dis.* 18, 1644–1645, 2010.
- Schuster FL, Visvesvara GS, Ameba and ciliated protozoa as causal agents of waterborne zoonotic disease. *Vet. Parasitol.* 126, 91–120, 2004.
- Schwarzwald H et al., Disseminated Acanthamoeba infection in a human immunodeficiency virus-infected infant. *Pediatr. Infect. Dis. J.* 22, 197–199, 2003.
- Visvesvara GS, Amebic meningoencephalitis and keratitis: challenges in diagnosis and treatment. *Curr. Opin. Infect. Dis.* 23, 590–594, 2010.
- Visvesvara GS, Moura H, Schuster FL, Pathogenic and opportunistic free-living amoeba: *Acanthamoeba* spp., *Balamuthia mandrillalis*, *Naegleria fowleri*, and *Sappinia diploidea*. *FEMS Immunol. Med. Microbiol.* 50, 1–26, 2007.
- Walochnick J, Wylezich C, Michel R, The genus *Sappinia*: history, phylogeny and medical relevance. *Exp. Parasitol.* 126, 4–13, 2011.
- 4.2.2 Babesiose**
- Asad S, Sweeney J, Mermel LA, Transfusion-transmitted babesiosis in Rhode Islands. *Transfusion* 49, 2564–2573, 2009.
- Bonnet S et al., Experimental in vitro transmission of *Babesia* sp. EU1 by *Ixodes ricinus*. *Vet. Res.* 40, 21, 2009.
- Cieniuch S, Stanczak J, Ruczaj A, The first detection of *Babesia* EU1 and *Babesia canis canis* in *Ixodes ricinus* ticks (Acari, Ixodidae) collected in urban and rural areas in northern Poland. *Pol. J. Microbiol.* 58, 231–236, 2009.
- Conrad PA et al., Description of *Babesia duncani* n. sp. (Apicomplexa: Babesiidae) from humans and its differentiation from other piroplasms. *Int. J. Parasitol.* 36, 779–789, 2006.
- Duh D, Petrovec M, Avsic-Zupanc T, Molecular characterization of human pathogen *Babesia* EU1 in *Ixodes ricinus* ticks from Slovenia. *J. Parasitol.* 91, 463–465, 2005.
- Foppa IM et al., Entomologic and serologic evidence of zoonotic transmission of *Babesia microti*; Eastern Switzerland. *Emerg. Infect. Dis.* 8, 722–726, 2002.
- Fox LM et al., Neonatal babesiosis: case report and review of the literature. *Pediatr. Infect. Dis.* 25, 169–173, 2006.
- Franke J et al., Co-existence of pathogens in host-seeking and feeding ticks within a single natural habitat of central Germany. *Appl. Environ. Microbiol.* 76, 6829–6836, 2010.
- Gubernot DM et al., *Babesia* infection through blood transfusions: reports received by the US Food and Drug Administration, 1997–2007. *Clin. Infect. Dis.* 48, 25–30, 2009.
- Herwaldt BL et al., Molecular characterization of a Non-*Babesia divergens* organism causing zoonotic babesiosis in Europe. *Emerg. Infect. Dis.* 9, 942–948, 2003.
- Herwaldt BL et al., A fatal case of babesiosis in Missouri: identification of another piroplasm that infects humans. *Ann. Inter. Med.* 124, 643–650, 1996.
- Hunfeld KP, Hildebrandt A, Gray JS, Babesiosis: recent insights into an ancient disease. *Int. J. Parasitol.* 38, 1219–1237, 2008.
- Hunfeld KP et al., Seroprevalence of *Babesia* infections in humans exposed to ticks in Midwestern Germany. *J. Clin. Microbiol.* 40, 2431–2436, 2002.
- Kjemtrup AM, Conrad PA, Human babesiosis: an emerging tick-borne disease. *Int. J. Parasitol.* 30, 1323–1337, 2000.
- Krause PJI et al., Persistent and relapsing babesiosis in immunocompromised patients. *Clin. Infect. Dis.* 46, 370–376, 2008.
- Wei Q et al., Human babesiosis in Japan: isolation of *Babesia microti*-like parasites from a asymptomatic transfusion donor and from a rodent from an area where babesiosis is endemic. *J. Clin. Microbiol.* 39, 2178–2183, 2001.
- 4.2.3 Balantidiose**
- Anargyrou K et al., Pulmonary *Balantidium coli* infection in a leukemic patient. *Am J. Hematol.* 73, 180–183, 2003.
- Damriyasa IM, Bauer C, Prevalence and age-dependent occurrence of intestinal protozoan infections in suckling piglets. *Berl.*

- Münch. Tierärztl. Wochenschr. 119, 287–290, 2006.
- Kaur R et al., Intestinal parasites in children with diarrhea in Delhi, India. *Southeast Asian J. Trop. Med. Public Health* 33, 725–729, 2002.
- Nakauchi K, The prevalence of *Balantidium coli* infection in fifty-six mammalian species. *J. Vet. Med. Sci.* 61, 63–65, 1999.
- Schuster FL, Ramirez-Avila L, Current world status of *Balantidium coli*. *Clin. Microbiol. Rev.* 212, 626–638, 2008.
- Solaymani-Mohammadi S, Rezaian M, Ali Anwar M, Human balantidiasis in Iran: an unsolved enigma. *Trends Parasitol.* 21, 160–161, 2005.
- 4.2.4 Chagas-Krankheit (Südamerikanische Trypanosomose)**
- Almeida AE et al., Chagas' disease and HIV co-infection in patients without effective antiretroviral therapy: prevalence, clinical presentation and natural history. *Trans. R. Soc. Trop. Med. Hyg.* 104, 447–452, 2010.
- Bern C et al., Congenital *Trypanosoma cruzi* transmission in Santa Cruz, Bolivia. *Clin. Infect. Dis.* 49, 1667–1674, 2009.
- Blanco SB et al., Congenital transmission of *Trypanosoma cruzi*: an operational outline for detecting and treating infected infants in north-western Argentina. *Trop. Med. Int. Health* 5, 293–301, 2000.
- Britto CC, Usefulness of PCR-based assays to assess drug efficacy in Chagas disease chemotherapy: value and limitations. *Mem. Inst. Oswaldo Cruz* 104, Suppl. 1, 122–135, 2009.
- Bruckner FS, Navabi N, Advances of Chagas disease drug development: 2009–2010. *Curr. Opin. Infect. Dis.* 23, 609–616, 2010.
- Carod-Artal FJ, Stroke: a neglected complication of American trypanosomiasis (Chagas' disease). *Trans. R. Soc. Trop. Med. Hyg.* 101, 1075–1080, 2007.
- Chippaux JP et al., Antibody drop in newborns congenitally infected by *Trypanosoma cruzi* treated with benznidazole. *Trop. Med. Int. Health* 15, 87–93, 2010.
- Córdova E et al., Neurological manifestations of Chagas' disease. *Neurol. Res.* 32, 238–244, 2010.
- De Moraes MH et al., Different serological cross-reactivity of *Trypanosoma rangeli* forms in *Trypanosoma cruzi*-infected patients sera. *Parasites Vectors* 1, 20, 2008.
- De Nayo BA et al., Large urban outbreak of orally acquired acute Chagas disease at a school in Caracas, Venezuela. *J. Infect. Dis.* 201, 1308–1315, 2010.
- Diazgranados CA et al., Chagasic encephalides in HIV patients: common presentation of an evolving epidemiological and clinical association. *Lancet Infect Dis.* 9, 324–330, 2009.
- Dutra WO, Rocha MOC, Teixeira MM, The clinical immunology of human Chagas disease. *Trends Parasitol.* 21, 581–587, 2005.
- García Borrás S et al., Distribution of HLA-DRB1 alleles in Argentinean patients with Chagas' disease cardiomyopathy. *Immunol. Invest.* 38, 268–275, 2009.
- Gomes YM, Lorena VMB, Luquetti AO, Diagnosis of Chagas disease: what has been achieved? What remains to be done with regard to diagnosis and follow up studies. *Mem. Inst. Oswaldo Cruz* 104, Suppl 1, 115–121, 2009.
- Gutierrez FRS et al., The role of parasite persistence in pathogenesis of Chagas heart disease. *Parasite Immunol.* 31, 673–685, 2009.
- Kirchhoff LV, Epidemiology of American trypanosomiasis (Chagas disease). *Adv. Parasitol.* 75, 1–18, 2011.
- Kjos SA et al., Distribution and characterization of canine Chagas disease in Texas. *Vet. Parasitol.* 152, 249–256, 2008.
- Marin-Neto JA et al., Pathogenesis of chronic Chagas heart disease. *Circulation* 115, 1109–1123, 2007.
- Meneghelli UG, Chagasic enteropathy. *Rev. Soc. Bras. Med. Trop.* 37, 252–260, 2004.
- Nieto A et al., HLA haplotypes are associated with differential susceptibility to *Trypanosoma cruzi* infection. *Tissue Antigens* 55, 195–198, 2000.
- Punukollu G et al., Clinical aspects of the Chagas' heart disease. *Int. J. Cardiol.* 115, 279–283, 2007.
- Schmunis GA, Epidemiology of Chagas disease in non-endemic countries: the role of international migration. *Mem. Inst. Oswaldo Cruz* 102, Suppl.1, 75–85, 2007.
- Schmunis GA, Cruz JR, Safety of the blood supply in Latin America. *Clin. Microbiol. Rev.* 18, 12–29, 2005.
- Solari A et al., Treatment of *Trypanosoma cruzi*-infected children with nifurtimox: a

- 3 year follow-up by PCR. *J. Antimicrob. Chemother.* 48, 515–519, 2001.
- Sosa-Estani S, Viotti R, Segura EL, Therapy, diagnosis and prognosis of chronic Chagas disease: insight gained in Argentina: *Mem. Inst. Oswaldo Cruz* 104, Suppl. 1, 167–1180, 2009.
- Urbina JA, Specific chemotherapy of Chagas disease: relevance, current limitations and new approaches. *Acta Trop.* 115, 55–68, 2009.
- #### 4.2.5 Giardiose
- Almeida AA et al., Genotype analysis of *Giardia* isolated from asymptomatic children in northern Portugal. *J. Eukaryot. Microbiol.* 53, Suppl. 1, S177–S178, 2006.
- Aloisio F et al., Severe weight loss in lambs infected with *Giardia duodenalis* assemblage B. *Vet. Parasitol.* 142, 154–158, 2006.
- Anonym, From the Centers of Disease Control and Prevention. Prevalence of parasites in fecal material from chlorinated swimming pools – United States, 1999. *JAMA* 285, 2969, 2001.
- Ballweber LR et al., Giardiasis in dogs and cats: update on epidemiology and public health significance. *Trends Parasitol.* 26, 180–189, 2010.
- Betancourt WQ, Rose JB, Drinking water treatment processes for removal of *Cryptosporidium* and *Giardia*. *Vet. Parasitol.* 126, 219–234, 2004.
- Boeke CE et al., Intestinal protozoan infections in relation to nutritional status and gastrointestinal morbidity in Colombian school children. *J. Trop. Pediatr.* 56, 299–306, 2010.
- Caccio SM et al., Unravelling *Cryptosporidium* and *Giardia* epidemiology. *Trends Parasitol.* 21, 430–437, 2005.
- Craun GF, Calderon RL, Craun MF, Outbreaks associated with recreational water in the United States. *Int. J. Environ. Health Res.* 15, 243–262, 2005.
- Dixon B et al., The potential for zoonotic transmission of *Giardia duodenalis* and *Cryptosporidium* spp. from beef and dairy cattle in Ontario, Canada. *Vet. Parasitol.* 175, 20–26, 2011.
- Durán C et al., *Giardia lamblia* infection is associated with lower body mass index values. *J. Infect. Dev. Ctries.* 30, 417–418, 2010.
- Esfandiari A, Swartz J, Teklehaimanot S, Clustering of giardiasis among AIDS patients in Los Angeles County. *Cell. Mol. Biol.* 43, 1077–1083, 1997.
- Fernando WJ, Theoretical considerations and modeling of chemical inactivation of microorganisms: inactivation of *Giardia* cysts by free chlorine. *J. Theoret. Biol.* 259, 297–303, 2009.
- Gaafar MR, Effect of solar disinfection on viability of intestinal protozoa in drinking water. *J. Egypt. Soc. Parasitol.* 37, 65–86, 2007.
- Geurden T, Vercruyse J, Claerebout E, Is *Giardia* a significant pathogen in production animals? *Exp. Parasitol.* 124, 98–106, 2010.
- Janoff EN, Smith PD, Blaser MJ, Acute antibody responses to *Giardia lamblia* are depressed in patients with AIDS. *J. Infect. Dis.* 157, 798–804, 1988.
- Katz DE et al., Prolonged outbreak of giardiasis with two modes of transmission. *Epidemiol. Infect.* 134, 935–941, 2006.
- Lengerich EJ, Addiss DG, Juranek DD, Severe giardiasis in the United States. *Clin. Infect. Dis.* 18, 760–763, 1994.
- Monis PT, Caccio SM, Thompson RCA, Variation in *Giardia*: towards a taxonomic revision of the genus. *Trends Parasitol.* 25, 93–100, 2009.
- Morch K et al., High rate of fatigue and abdominal symptoms 2 years after an outbreak of giardiasis. *Trans. R. Soc. Trop. Med. Hyg.* 103, 530–532, 2009.
- Nydam DV et al., Number of *Cryptosporidium parvum* oocysts or *Giardia* spp. cysts shed by dairy calves after natural infection. *Am. J. Vet. Res.* 62, 1612–1615, 2001.
- Robertson LJ et al., Giardiasis – why do symptoms never stop. *Trends Parasitol.* 26, 75–82, 2010.
- Robertson LJ et al., Application of genotyping during an extensive outbreak of waterborne giardiasis in Bergen, Norway, during autumn and winter 2004. *Appl. Environ. Microbiol.* 72, 2212–2217, 2006.
- Roxström-Lindquist K et al., *Giardia* immunity – an update. *Trends Parasitol.* 22, 26–31, 2006.
- Savioli L, Smith H, Thompson A, *Giardia* and *Cryptosporidium* join the „Neglected Diseases Initiative“. *Trend Parasitol.* 22, 203–208, 2006.

- Souza SL et al., Molecular identification of *Giardia duodenalis* isolates from humans, dogs, cats, and cattle from the state of Sao Paulo, Brazil, by sequence analysis of fragments of glutamate dehydrogenase (gdh) coding gene. *Vet. Parasitol.* 149, 258–264, 2007.
- Van der Giessen JVV et al., Genotyping of *Giardia* in Dutch patients and animals: a phylogenetic analysis of human and animal isolates. *Int. J. Parasitol.* 36, 849–858, 2006.
- #### 4.2.6 Kryptosporidiose
- Ajjampur SS, Sankaran P, Kang G, Cryptosporidium species in HIV-infected individuals in India: an overview. *Natl. Med. J. India*, 21, 178–184, 2008.
- Amer S et al., Cryptosporidium genotypes and subtypes in dairy calves in Egypt. *Vet. Parasitol.* 169, 382–386, 2010.
- Betancourt WQ, Rose JB, Drinking water treatment processes for removal of Cryptosporidium and Giardia. *Vet. Parasitol.* 126, 219–234, 2004.
- Cacció SM et al., Unravelling Cryptosporidium and Giardia epidemiology. *Trends Parasitol.* 21, 430–437, 2005.
- Chalmers RM, Davies AP, Minireview: Clinical cryptosporidiosis. *Exp. Parasitol.* 124, 138–146, 2010.
- Chalmers RM et al., Long-term Cryptosporidium typing reveals the aetiology and species-specific epidemiology of human cryptosporidiosis in England and Wales, 2000 to 2003. *Euro. Surveill.* 14, pii: 19086, 2009.
- De Waele et al., Age-stratified Bayesian analysis to estimate sensitivity and specificity of four diagnostic tests for the detection of Cryptosporidium spp. oocysts in neonatal calves. *J. Clin. Microbiol.* 49, 76–84, 2011.
- De Waele et al., Control of cryptosporidiosis in neonatal calves: use of halofuginone lactate in two different calf rearing systems. *Prev. Vet. Med.* 96, 143–151, 2010.
- Diaz P et al., Genotype and subtype analysis of Cryptosporidium isolates from calves and sporidium spp. in Wisconsin. *J. Clin. Microbiol.* 44, 4303–4308, 2006.
- Feltus DC et al., Evidence supporting zoonotic transmission of Cryptosporidium spp. in Wisconsin. *J. Clin. Microbiol.* 44, 4303–4308, 2006.
- Feng Y, Li N, Xiao L, Cryptosporidium genotype and subtype distribution in raw wastewater in Shanghai, China: evidence for possible unique Cryptosporidium hominis transmission. *J. Clin. Microbiol.* 47, 153–157, 2009.
- Geurden T et al., Multilocus genotyping of Cryptosporidium and Giardia in non-outbreak related cases of diarrhoea in human patients in Belgium. *Parasitology* 136, 1161–1168, 2009.
- Jagal JS et al., Seasonality of cryptosporidiosis: a meta-analysis approach. *Environ. Res.* 109, 465–478, 2009.
- Korich DG et al., Effects of ozone, chlorine dioxide, chlorine, and monochloramine on Cryptosporidium parvum oocyst viability. *Appl. Environ. Microbiol.* 56, 1423–1428, 1990.
- Kvác M et al., Prevalence and age-related infection of Cryptosporidium suis, *C. muris*, and Cryptosporidium pig genotype II in pigs on a farm complex in the Czech Republic. *Vet. Parasitol.* 160, 319–322, 2009.
- Lucio-Forster A et al., Minimal zoonotic risk of cryptosporidiosis from pet dogs and cats. *Trends Parasitol.* 26, 174–179, 2010.
- Mallon M et al., Population structures and role of genetic exchange in the zoonotic pathogen Cryptosporidium parvum. *J. Mol. Evol.* 56, 407–417, 2003.
- Ng JS et al., Molecular characterization of Cryptosporidium outbreaks in Western and South Australia. *Exp. Parasitol.* 125, 325–328, 2010.
- Plutzer J, Karanis P, Genetic polymorphism in Cryptosporidium species: an update. *Vet. Parasitol.* 165, 187–199, 2009.
- Rochelle PA et al., The response of Cryptosporidium parvum to UV light. *Trends Parasitol.* 21, 81–87, 2005.
- Rossignol JF, Cryptosporidium and Giardia treatment options and prospects for new drugs. *Exp. Parasitol.* 124, 45–53, 2010.
- Ryan U, Cryptosporidium in birds, fish and amphibians. *Exp. Parasitol.* 124, 113–120, 2010.
- Savioli L, Smith H, Thompson A, Giardia and Cryptosporidium join the „Neglected Diseases Initiative“. *Trends Parasitol.* 22, 203–208, 2006.
- Schnyder M et al., Prophylactic and therapeutic efficacy of nitazoxanide against Cryptosporidium parvum in experimentally

- challenged neonatal calves. *Vet. Parasitol.* 160, 149–154, 2009.
- Smith HV, Nichols RA, Cryptosporidium: detection in water and food. *Exp. Parasitol.* 124, 61–79, 2009.
- Smith HV et al., Natural Cryptosporidium hominis infections in Scottish cattle. *Vet. Rec.* 156, 710–711, 2005.
- Tzipori S, Widmer G, A hundred-year retrospective on cryptosporidiosis. *Trends Parasitol.* 24, 184–189, 2008.
- Yoder JS, Beach MJ, Cryptosporidium surveillance and risk factors in the United States. *Exp. Parasitol.* 124, 31–39, 2010.
- Xiao L, Molecular epidemiology of cryptosporidiosis: an update. *Exp. Parasitol.* 124, 80–89, 2010.
- 4.2.7 Leishmaniosen**
- Colmenares M et al., Mechanisms of pathogenesis: differences amongst Leishmania species. *Trans. R. Soc. Trop. Med. Hyg.* 96, Suppl. 1, 3–7, 2002.
- Harms G, Schönian G, Feldmeier H, Leishmaniasis in Germany. *Emerg. Inf. Dis.* 9, 872–875, 2003.
- Peacock CS et al., Genetic epidemiology of visceral leishmaniasis in northeastern Brazil. *Genet. Epidemiol.* 20, 383–396, 2001.
- Schönian G, Mauricio I, Cupolillo E, Is it time to revise the nomenclature of Leishmania? *Trends Parasitol.* 26, 466–469, 2010.
- Vladimirov V et al., Different genetic control of cutaneous and visceral disease after Leishmania major infection in mice. *Infect. Immun.* 71, 2041–2046, 2003.
- WHO, Control of leishmaniasis. Report of a WHO Expert Committee. *WHO Tech. Rep. Ser.* 793, 1–158, 1990.
- 4.2.7.1 Viscerale Leishmaniose (Kala-Azar)**
- Agostoni C et al., Mediterranean leishmaniasis in HIV-infected patients. *Infection* 26, 93–99, 1998.
- Alexander B, Maroli M, Control of phlebotomine sandflies. *Med. Vet. Entomol.* 17, 1–18, 2003.
- Ashford RW, The leishmaniasis as emerging and reemerging zoonoses. *Internat. J. Parasit.* 30, 1269–1281, 2000.
- Baneth G et al., Canine leishmaniasis – new concepts and insights on an expanding zoonosis – part one, *Trends Parasitol.* 24, 324–330, 2008.
- Bogdan C et al., Visceral leishmaniasis in a child who had never entered a known endemic area: case report and review of the literature. *Clin. Infect. Dis.* 32, 302–306, 2001.
- Carillo E, Moreno J, Cytokine profiles in canine visceral leishmaniasis. *Vet. Immunol. Immunopathol.* 128, 67–70, 2009.
- Cascio A et al., Pediatric visceral leishmaniasis in western Sicily, Italy: a retrospective analysis of 111 cases. *Eur. J. Clin. Microbiol. Infect. Dis.* 21, 227–282, 2002.
- Coler R N, Reed SG, Second-generation vaccines against leishmaniasis. *Trends Parasitol.* 21 No 5, 244–249 2005.
- Costa CH et al., Asymptomatic human carriers of Leishmania chagasi. *Am. J. Trop. Med. Hyg.* 66, 334–337, 2002.
- Dujardin JC, Risk factors in the spread of leishmaniasis: towards integrated monitoring? *Trends Parasitol.* 22, 4–6, 2006.
- Farkas R et al., First survey to investigate the presence of canine leishmaniasis and its phlebotomine vectors in Hungary. *Vector Borne Zoonotic Dis.*, 11, 823–834, 2011.
- Fernades AP et al., Protective immunity against challenge with Leishmania (Leishmania) chagasi in beagle dogs vaccinated with recombinant A2 protein. *Vaccine* 26, 5888–5895, 2008.
- Glaser B, Gothe R, Importierte arthropodenübertragene Parasiten und parasitische Arthropoden beim Hund. *Tierärztl. Praxis* 26, 40–46, 1998.
- Grech V et al., Visceral leishmaniasis in Malta – an 18 year paediatric, population based study. *Arch. Dis. Child.* 82, 381–385, 2000.
- Harhay MO et al., Urban parasitology: visceral leishmaniasis in Brazil. *Trends Parasitol.* 27, 403–409, 2011.
- Harms-Zwingenberger G, Leishmaniosen. In: Löscher T, Burchard G-D (Hrsg.). *Tropenmedizin in Klinik und Praxis*, Thieme, 2010.
- Killick-Kendrik M, Killick-Kendrik R, Biology of sandfly vectors of Mediterranean canine leishmaniasis. *Proceedings of the International Canine Leishmaniasis Forum*, Barcelona, Spain, 26–31, 1999.
- Köhler K et al., Cutaneous leishmaniasis in a horse in southern Germany caused by Leishmania infantum. *Vet. Parasitol.* 109, 9–17, 2002.

- Maroli M et al., The northward spread of leishmaniasis in Italy: evidence from retrospective and ongoing studies on the canine reservoir and phlebotomine vectors. *Trop. Med. Int. Health* 13, 256–264, 2008.
- Miró G et al., Canine leishmaniosis – new concepts and insights on an expanding zoonosis – part two. *Trends in Parasitol.* 24, 8 371–377, 2008.
- Miró G et al., Multicentric, controlled clinical study to evaluate effectiveness and safety of miltefosine and allopurinol for canine leishmaniasis. *Vet. Dermatol.* 20, 397–404, 2009.
- Müller N et al., Occurrence of *Leishmania* sp. in cutaneous lesions of horses in Central Europe. *Vet. Parasitol.* 166, 346–351, 2009.
- Mohamed HS et al., Genetic susceptibility to visceral leishmaniasis in the Sudan: linkage and association with IL4 and IFNGR1. *Genes Immun.* 4, 351–355, 2003.
- Murray HW, Treatment of visceral leishmaniasis (kala-azar): a decade of progress and future approaches. *Int. J. Infect. Dis.* 4, 158–177, 2000.
- Naucke TJ, Pesson B, Presence of *Phlebotomus* (*Transphlebotomus*) *mascittii* Grassi, 1908 (Diptera, Psychodidae) in Germany. *Parasitol. Res.* 86, 335–336, 2000.
- Naucke TJ et al., *Phlebotomus* (*Transphlebotomus*) *mascittii* Grassi, 1908, in Carinthia: first record of the occurrence of sandflies in Austria (Diptera: Psychodidae: Phlebotominae). *Parasitol. Res.*, 2011.
- Peters W, Killick-Kendrick R (Hrsg.), The leishmaniasis in biology and medicine. Academic Press London, Vol. 1+2, 1987.
- Reis AB et al., Immunity to *Leishmania* and the rational search for vaccines against canine leishmaniasis. *Trends Parasitol.* 26, 341–349, 2010.
- Reiter-Owona I, Flagellaten – *Leishmania*. In: Neumeister B, Geiss HK, Braun RW, Kimmig P (Hrsg.): *Mikrobiologische Diagnostik*, Thieme, 2009.
- Rivas L et al., Virulence and disease in leishmaniasis: what is relevant for the patient. *Trends in Parasitol.* 20, No 7, 2004.
- Schönan G et al., Leishmaniasis in the Mediterranean in the era of molecular epidemiology. *Trends in Parasitol.* 24, 135–142, 2007.
- Shaw SE, Langton DA, Hillman TJ: Canine leishmaniosis in the United Kingdom: a zoonotic disease waiting for a vector. *Vet. Parasitol.* 163, 281–285, 2009.
- Solano-Gallego L et al., Directions for the diagnosis, clinical staging, treatment and prevention of canine leishmaniasis. *Vet. Parasitol.* 165, 1–18, 2009.
- Vecsei AK et al., Pediatric visceral leishmaniasis in Austria: diagnostic difficulties in a non-endemic region. *Wien. Klin. Wochenschr.* 113, 102–106, 2001.
- Walochnik J, Aspöck H, Sandmücken, Leishmanien und Leishmaniosen – neue Dimensionen alter Krankheiten. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 673–694, 2010.
- Werneck GL et al., The burden of *Leishmania chagasi* infection during an urban outbreak of visceral leishmaniasis in Brazil. *Acta Trop.* 83, 13–18, 2002.
- Zijlstra EE et al., Postkala-azar dermal leishmaniasis. *Lancet Infect. Dis.* 3, 87–98, 2003.

4.2.7.2 Kutane Leishmaniosen

- Anis E, Leventhal A, Elkana Y, Cutaneous leishmaniasis in Israel in the era of changing environment. *Publ. Health Rev.* 29, 37–47, 2001.
- Ashford RW, The leishmaniasis as emerging and reemerging zoonoses. *Internat. J. Parasit.* 30, 1269–1281, 2000.
- Choi CM, Lerner EA, Leishmaniasis: recognition and management with a focus on the immunocompromised patient. *Am. J. Clin. Dermatol.* 3, 91–105, 2002.
- Croft SL, Yardley V, Chemotherapy of leishmaniasis. *Curr. Pharm. Des.* 8, 319–342, 2002.
- Gamier T, Croft SL, Topical treatment for cutaneous leishmaniasis. *Curr. Opin. Investig. Drugs* 3, 538–544, 2002.
- Nuwayri-Salti N et al., The epidemiology of leishmaniasis in Lebanon. *Trans. R. Soc. Trop. Med. Hyg.* 94, 164–166, 2000.
- Pearson RD, de Queiroz Sousa A, Clinical spectrum of leishmaniasis. *Clin. Inf. Dis.* 22, 1–11, 1996.
- Vega-Lopez F, Diagnosis of cutaneous leishmaniasis. *Curr. Opin. Infect. Dis.* 16, 97–101, 2003.

4.2.7.3 Amerikanische Haut- und Schleimhautleishmaniosen

- Arevalo I et al., Successful treatment of drug-resistant cutaneous leishmaniasis in humans by use of imiquimod, an immuno-

- modulator. *Clin. Infect. Dis.* 33, 1847–1851, 2001.
- Ashford RW, The leishmaniases as emerging and reemerging zoonoses. *Internat. J. Parasitol.* 30, 1269–1281, 2000.
- Campbell-Lendrum D et al., Domestic and peridomestic transmission of American cutaneous leishmaniasis: changing epidemiological patterns present new control opportunities. *Mem. Inst. Oswaldo Cruz* 96, 159–162, 2001.
- Da-Cruz AM et al., T-cell-mediated immune responses in patients with cutaneous or mucosal leishmaniasis: long-term evaluation after therapy. *Clin. Diagn. Lab. Immunol.* 9, 251–256, 2002.
- Follador I et al., Epidemiologic and immunologic findings for the subclinical form of Leishmania braziliensis infection. *Clin. Infect. Dis.* 34, E54–58, 2002.
- Gontijo CM et al., Epidemiological studies of an outbreak of cutaneous leishmaniasis in the Rio Jequitinhonha valley, Minas Gerais, Brazil. *Acta Trop.* 81, 143–150, 2002.
- Rodrigues EH et al., Evaluation of PCR for diagnosis of American cutaneous leishmaniasis in an area of endemicity in northeastern Brazil. *J. Clin. Microbiol.* 40, 3572–3576, 2002.
- Royer MA, Crowe CO, American cutaneous leishmaniasis. *Arch. Pathol. Lab. Med.* 126, 471–473, 2002.
- Sundars S, Rai M, Advances in the treatment of leishmaniasis. *Curr. Opin. Infect. Dis.* 15, 593–598, 2002.
- 4.2.8 Malaria**
- Buppan P et al., Comparative detection of Plasmodium vivax and Plasmodium falciparum in saliva and urine samples from symptomatic malaria patients in a low endemic area. *Malar. J.* 9, 72, 2010.
- Castro Duarte AMR et al., Natural Plasmodium infections in Brazilian wild monkeys: reservoirs for human infections? *Acta Tropica* 107, 179–185, 2008.
- Coatney RG, The simian malarias: zoonoses, anthroponoses, or both? *Am. J. Trop. Med. Hyg.* 20, 795–803, 1971.
- Collins WE, Jeffery GM, Plasmodium malariae: parasite and disease. *Clin. Microbiol. Rev.* 20, 579–592, 2007.
- Cox-Singh J, Knowlesi malaria in Vietnam. *Malar. J.* 8, 269, 2009.
- Cox-Singh J et al., Plasmodium knowlesi malaria in humans is widely distributed and potentially life threatening. *Clin. Infect. Dis.* 46, 165–171, 2008.
- Cox-Singh J, Singh B, Knowlesi malaria: newly emergent and of public health importance? *Trends Parasitol.* 24, 406–410, 2008.
- Daneshvar C et al., Clinical and laboratory features of human Plasmodium knowlesi infection. *Clin. Infect. Dis.* 49, 852–860, 2009.
- Daneshvar C et al., Clinical and parasitological responses to oral chloroquine and primaquine in uncomplicated human Plasmodium knowlesi infections. *Malar. J.* 9, 238, 2010.
- Divis PC et al., A TaqMan real-time PCR assay for the detection and quantitation of Plasmodium knowlesi. *Malar. J.* 30, 344, 2010.
- Duval L et al., African apes as reservoirs of Plasmodium falciparum and the origin and diversification of the Laveriana subgenus. *Proc. Natl. Acad. Sci. USA* 107, 10561–10566, 2010.
- Galinski MR, Barnwell JW, Monkey malariae kills four humans. *Trends Parasitol.* 205, 200–204, 2009.
- Jiang N et al., Co-infection with Plasmodium knowlesi and other malaria parasites, Myanmar. *Emerg. Inf. Dis.* 16, 1476–1478, 2010.
- Jongwutiwes S et al., Plasmodium knowlesi malaria in humans and macaques, Thailand. *Emerg. Infect. Dis.* 17, 1799–1806, 2011.
- Kawai S et al., Cross-reactivity in rapid diagnostic tests between human malaria and simian malaria parasite Plasmodium knowlesi infections. *Parasitol. Int.* 58, 300–302, 2009.
- Krief S et al., On the diversity of malaria parasites in African apes and the origin of Plasmodium falciparum from Bonobos. *PLoS Pathog.* 6, e1000765, 2010.
- Lee KS et al., Plasmodium knowlesi from archival blood films: further evidence that human infections are widely distributed and not newly emergent in Malaysian Borneo. *Int. J. Parasitol.* 39, 1125–1128, 2009.
- Moody A, Rapid diagnostic tests for malaria parasites. *Clin. Microbiol. Revs.* 15, 66–78, 2002.
- Oddoux O et al., Identification of the five human Plasmodium species including P.

- knowlesi by real-time polymerase chain reaction. *Eur. J. Clin. Microbiol Infect. Dis.* 30, 597–601, 2011.
- Prugnolle F et al., African apes are natural hosts of multiple related malaria species, including *Plasmodium falciparum*. *Proc. Natl. Acad. Sci. USA* 107, 1458–1463, 2010.
- Schlagenhauf P et al., The position of mefloquine as a 21st century malaria chemoprophylaxis. *Malar. J.* 9, 357, 2010.
- Sulistyaningshi E et al., Diagnostic difficulties with *Plasmodium knowlesi* infection in humans. *Emerg. Infect. Dis.* 16, 1033–1034, 2010.
- Vythilingam I et al., *Plasmodium knowlesi* in humans, macaques and mosquitos in peninsular Malaysia. *Parasit. Vectors* 1, 26, 2008.
- World Health Organisation. Management of severe falciparum malaria: a practical handbook. <http://www.who.int/malaria/docs/hbsm.pdf>.
- 4.2.9 Microsporidiose**
- Anane S, Attouchi H, Microsporidiosis: epidemiology, clinical data and therapy. *Gastroenterol. Clin. Biol.* 34, 450–464, 2010.
- Bart A et al., Frequent occurrence of human-associated microsporidia in fecal droppings of urban pigeons in Amsterdam, The Netherlands. *Appl. Environ. Microbiol.* 74, 7056–7058, 2008.
- Cali A, Weiss LM, Takvorian PM, A review of the development of two types of human skeletal muscle-infections from microsporidia associated with pathology in invertebrates and cold-blooded vertebrates. *Folia Parasitol. (Praha)* 52, 51–61, 2005.
- Curry A et al., *Trachipleistophora hominis* infection in the myocardium and skeletal muscle of a patient with AIDS. *J. Infect.* 51, e139–144, 2005.
- Franzen C, Microsporidia: how can they invade other cells? *Trends Parasitol.* 20, 275–279, 2004.
- Didier ES et al., Therapeutic strategies for human microsporidia infections. *Expert. Rev. Antiinfect. Ther.* 3, 419–434, 2005.
- Gosh K, Weiss LM, Molecular diagnostic tests for Microsporidia. *Interdisciplinary Perspectives on Infectious Diseases* 926521, 13.doi:10.1155/2009/926521, 2009.
- Graczyk TK et al., Recovery, bioaccumulation, and inactivation of human waterborn pathogens by the Chesapeake Bay nonnative oyster, *Crassostrea ariakensis*. *Appl. Environ. Microbiol.* 72, 3390–3395, 2006.
- Henriques-Gil N et al., Phylogenetic approach to the variability of the microsporidian *Enterocytozoon bienewi* and its implications for inter- and intrahost transmission. *Appl. Environ. Microbiol.* 76, 3333–3342, 2010.
- Lanternier F et al., Microsporidiosis in solid organ transplant recipients: two *Enterocytozoon bienewi* cases and review. *Transpl. Infect. Dis.* 11, 83–88, 2009.
- Lee JH, Molecular detection of *Enterocytozoon bienewi* and identification of a potentially human-pathogenic genotype in milk. *Appl. Environ. Microbiol.* 74, 1664–1666, 2008.
- Mathis A, Weber R, Deplazes P, Zoonotic potential of the Microsporidia. *Clin. Microbiol. Rev.* 18, 423–445, 2005.
- Nkinin SW et al., Microsporidian infection is prevalent in healthy people in Cameroon. *J. Clin. Microbiol.* 45, 2841–2846, 2007.
- Sak B et al., Seropositivity for *Enterocytozoon bienewi*, Czech Republic. *Emerg. Infect. Dis.* 16, 335–337, 2010.
- Santin M, Fayer R, *Enterocytozoon bienewi* genotype nomenclature based on the internal transcribed spacer sequence. A consensus. *J. Eukaryot. Microbiol.* 56, 34–38, 2009.
- Santin M, Fayer R, Microsporidiosis: *Enterocytozoon bienewi* in domesticated and wild animals: *Res. Vet. Sci.* 90, 363–371, 2010.
- Sanders JL et al., *Pleistophora hyphessobryconis* (Microsporidia) infecting zebrafish *Danio rerio* in research facilities. *Dis. Aquat. Organ.* 91, 47–56, 2010.
- Ten Hove RJ et al., Characterization of genotypes of *Enterocytozoon bineusi* in immunosuppressed and immunocompetent patient groups. *J. Eukaryot. Microbiol.* 56, 388–393, 2009.
- Vávra J et al., Opportunistic nature of the mammalian microsporidia: experimental transmission, of *Trachipleistophora extenrec* (Fungi: Microsporidia) between mammalian and insect hosts. *Parasitol. Res.* 108, 1565–1573, 2011.
- Visvesvara GS, In vitro cultivation of microsporidia of clinical importance. *Clin. Microbiol. Rev.* 15, 401–413, 2002.
- Visvesvara GS et al., Public health importance of *Brachiola algerae* (Microsporidia) – an

emerging pathogen of humans. *Folia Parasitol. (Praha)*, 52, 83–94, 2005.

4.2.10 Sarkosporidiose

- Arness MK et al., An outbreak of acute eosinophilic myositis attributed to human *Sarcocystis* parasitism. *Am. J. Trop. Med. Hyg.* 61, 548–553, 1999.
- Fayer R, *Sarcocystis* spp. in human infections. *Clin. Microbiol. Rev.* 17, 894–902, 2004.
- Chen XW, Zuo YX, Hu JJ, Experimental *Sarcocystis hominis* infection in a water buffalo (*Bubalus bubalis*). *J. Parasitol.* 89, 393–394, 2003.
- Vangeel L et al., Molecular-based identification of *Sarcocystis hominis* in Belgian minced beef. *J. Food Prot.* 70, 1523–1526, 2007.
- Velásquez JN et al., Systemic sarcocystosis in a patient with acquired immune deficiency syndrome. *Hum. Pathol.* 39, 1263–1267, 2008.
- Xin Wen C, Yang Xian Z, Wei Wei Z, Observation on the clinical symptoms and sporocyst excretion in human volunteers experimentally infected with *Sarcocystis hominis*. *Clin. J. Parasitol. Parasit. Dis.* 17, 25–27, 1999.

4.2.11 Schlafkrankheit

- Chappuis F et al., Options for field diagnosis of human African trypanosomiasis. *Clin. Microbiol. Rev.* 18, 133–146, 2005.
- Checkley AM et al., Human African trypanosomiasis: diagnosis, relapse and survival after severe melarsoprol-induced encephalopathy. *Trans. R. Soc. Trop. Med. Hyg.* 101, 523–526, 2007.
- De Clare Bronsvort BM et al., No gold standard estimation of the sensitivity and specificity of two molecular diagnostic protocols for *Trypanosoma brucei* spp. in Western Kenya. *PLoS One* 5, e8628, 2010.
- Fèvre EM et al., A burgeoning epidemic of sleeping sickness in Uganda. *Lancet* 366, 745–747, 2005.
- Fèvre EM et al., Human African trypanosomiasis: epidemiology and control. *Adv. Parasitol.* 61, 167–221, 2006.
- Fèvre EM et al., The burden of human African trypanosomiasis. *PLoS Negl. Trop. Dis.* 2, e333, 2008.
- Gibson W, Resolution of the species problem in African trypanosomiasis. *Int. J. Parasitol.* 37, 829–838, 2007.

Hargrove JW et al., Insecticide-treated cattle for tsetse control: the power and the problems. *Med. Vet. Entomol.* 14, 123–130, 2000.

- Hide G, Tait A, Molecular epidemiology of African sleeping sickness. *Parasitology* 136, 1491–1500, 2009.
- Ilemobade AA, Tsetse and trypanosomiasis in Africa: the challenges and the opportunities. *Onderstepoort J. Vet. Res.* 76, 35–40, 2009.
- Kennedy PG, Diagnostic and neuropathogenesis issues in human African trypanosomiasis. *Int. J. Parasitol.* 36, 505–512, 2006.
- Lejon V, Büscher P, Cerebrospinal fluid in human African trypanosomiasis: a key to diagnosis, therapeutic decisions and post-treatment follow-up. *Trop. Med. Int. Health* 10, 395–403, 2005.
- MacLean LM et al., Focus-specific clinical profiles in human African trypanosomiasis caused by *Trypanosoma brucei rhodesiense*. *PLoS Negl. Trop. Dis.* 4, e906, 2010.
- Picozzi K, Carrington M, Welburn SC, A multiplex PCR that discriminates between *Trypanosoma brucei brucei* and zoonotic *T. b. rhodesiense*. *Exp. Parasitol.* 118, 41–46, 2008.
- Radwanska M, Emerging trends in the diagnosis of human African trypanosomiasis. *Parasitology* 137, 977–986, 2010.
- Simarro PP, Jannijn J, Cattland P, Eliminating human African trypanosomiasis: where do we stand and what comes next. *PLoS Med.* 5, e55, 2008.
- Sternberg JM, Human African trypanosomiasis: clinical presentation and immune response. *Parasite Immunol.* 26, 469–476, 2004.
- Wastling SL et al., LAMP for African trypanosomiasis: a comparative study of detection formats. *PLoS Negl. Trop. Dis.* 4, e865, 2010.
- #### 4.2.12 Toxoplasmose
- Accorinti M et al., Toxoplasmic retinochoroiditis in an Italian referral center. *Eur. J. Ophthalmol.* 19, 824–830, 2009.
- Bénard A et al., Survey of European programmes for the epidemiological surveillance of congenital toxoplasmosis. *Euro Surveill.* 13, pii:18834, 2008.
- Bobic B et al., Comparative evaluation of three commercial *Toxoplasma*-specific IgG anti-

- body avidity tests and significance in different clinical settings. *J. Med. Microbiol.* 58, 358–364, 2009.
- Commodaro AG et al., Ocular toxoplasmosis: an update and review of the literature. *Mem. Inst. Oswaldo Cruz* 104, 345–350, 2009.
- Contini C, Clinical and diagnostic management of toxoplasmosis in the immunocompromised patient. *Parassitologia* 50, 45–50, 2008.
- Dubey JP et al., New *Toxoplasma gondii* genotypes isolated from free-range chickens from the Fernando de Noronha, Brazil: unexpected findings. *J. Parasitol.* 96, 709–712, 2010.
- Fekuda A, Shibre T, Claere AJ, Toxoplasmosis as a cause for behaviour disorders – overview of evidence and mechanisms. *Folia Parasitol.* 57, 105–113, 2010.
- Flori P et al., Reliability of immunoglobulin G antitoxoplasma avidity test and effects of treatment on avidity indexes of infants and pregnant women. *Clin. Diagn. Lab. Immunol.* 112, 669–674, 2004.
- Garcia-Méric P et al., Prise en charge de la toxoplasmosis congénitale en France: données actuelles. *Press Med.* 39, 530–538, 2010.
- Garweg JG et al., Congenital ocular toxoplasmosis – ocular manifestations and prognosis after early diagnosis of infection. *Klin. Monbl. Augenheilkd.* 222, 721–727, 2005.
- Garweg JG, Scherrer JN, Halberstadt M, Recurrence characteristics in European patients with ocular toxoplasmosis. *Br. J. Ophthalmol.* 92, 1253–1256, 2008.
- Gross U et al., Reactivation of chronic toxoplasmosis: is there a link to strain-specific differences of the parasite? *Behring Inst. Mitt.* 99, 97–106, 1997.
- Jones JL, Dubey JP, Waterborne toxoplasmosis – recent developments. *Exp. Parasitol.* 124, 10–25, 2010.
- Kijlstra A, Jongert E, *Toxoplasma*-safe meat: close to reality? *Trends Parasitol.* 25, 18–22, 2008.
- Maubon D et al., What are the respective host and parasite contributions to toxoplasmosis. *Trends Parasitol.* 24, 299–303, 2008.
- Melamed J et al., Ocular manifestations of congenital toxoplasmosis. *Eye* 24, 528–534, 2010.
- Pereira-Chioccola VL, Vidal JE, Su C, *Toxoplasma gondii* infection and cerebral toxoplasmosis in HIV-infected patients. *Future Microbiol.* 4, 1363–1379, 2009.
- Röser D et al., Congenital toxoplasmosis – a report on the Danish screening programme 1999–2007. *J. Inherit. Metab. Dis.* 33 (Suppl. 2), 241–247, 2010.
- Romand S et al., Prenatal diagnosis using polymerase chain reaction on amniotic fluid for congenital toxoplasmosis. *Obstet. Gynecol.* 97, 296–300, 2001.
- Rudin C et al., Toxoplasmosis during pregnancy and infancy. A new approach for Switzerland. *Swiss Med. Wkly* 138 (Suppl. 168), 1–8, 2008.
- Saeij JPJ, Boyle JP, Boothroyd JP, Differences among the three major strains of *Toxoplasma gondii* and their specific interactions with the infected host. *Trends Parasitol.* 21, 476–481, 2005.
- Sibley LD et al., Genetic diversity of *Toxoplasma gondii* in man and animals. *Philos. Trans. R. Soc. Lond. B Biol. Sci.* 364, 2749–2761, 2009.
- Sousa S et al., Serotyping of naturally *Toxoplasma gondii* infected meat-producing animals. *Vet. Parasitol.* 169, 24–28, 2010.
- Varella IS et al., Prevalence of acute toxoplasmosis among 41,112 pregnant women and the mother-to-child transmission rate in a public hospital in South Brazil. *Mem. Inst. Oswaldo Cruz* 104, 383–388, 2009.
- Velmurugan GV, Dubey JP, Su C, Genotyping studies of *Toxoplasma gondii* isolates from Africa revealed that the archetypal clonal lineages predominate as in North America and Europe. *Vet. Parasitol.* 155, 314–318, 2008.
- Villena I et al., Congenital toxoplasmosis in France in 2007: first results from a national surveillance system. *Euro Surveill.* 15, pii.19600, 2010.
- Villena I et al., *Toxoplasma* strain type and human disease: risk of bias during parasite isolation. *Trends Parasitol.* 20, 160–162, 2004.
- Yolken RH et al., *Toxoplasma* and schizophrenia. *Parasite Immunol.* 31, 706–715, 2009.

4.2.13 Andere Infektionen mit Protozoen

- Howie S et al., A Gambian infant with fever and an unexpected bloodfilm. *PLoS Med* 3(9): e355. doi:10.137/journal.pmed.0030355.

- Lun Z et al., Atypical human trypanosomiasis: a neglected disease or just an unlucky accident? *Trends Parasitol.* 25, 107–108, 2008.
- Powar RM et al., A rare case of human trypanosomiasis caused by *Trypanosoma evansi*. *Indian j. Med. Microbiol.* 24, 72–74, 2006.
- Sarataphan N et al., Diagnosis of a *Trypanosoma lewisi*-like (*Herpetosoma*) infection in a sick infant from Thailand. *J. Med. Microbiol.* 56, 1118–1121, 2007.
- Shegokar VR et al., Short report: human trypanosomiasis caused by *Trypanosoma evansi* in a village in India: preliminary serologic survey of the local population. *Am. J. Trop. Med. Hyg.* 75, 869–870, 2006.
- Vanhollebeke B et al., Human *Trypanosoma evansi* infection linked to a lack of apolipoprotein L-I. *N. Engl. J. Med.* 355, 2752–2756, 2006.
- Nguyen TL et al., Prevalence and risks for fishborne zoonotic trematode infections in domestic animals in a highly endemic area in North Vietnam. *Acta Trop.* 112, 198–203, 2009.
- Phan VT et al., Fish-borne zoonotic trematodes in cultured and wild-caught freshwater fish from the Red River Delta, Vietnam. *Vector Borne Zoonotic Dis.* 10, 861–866, 2010.
- Rim HJ, Clonorchiasis: an update. *J. Helminthol.* 79, 269–281, 2005.
- Shin HR et al., Descriptive epidemiology of cholangiocarcinoma and clonorchiasis in Korea. *J. Korean Med. Sci.* 25, 1011–1016, 2010.
- Vennervald BJ, Polman K, Helminths and malignancy. *Parasite Immunol.* 31, 686–696, 2009.
- WHO Report Series Number: RS/2002/GE/40(VTN).

4.3 Durch Trematoden hervorgerufene Erkrankungen

4.3.1 Clonorchose

- Chen D et al., Epidemiological investigations of *Clonorchis sinensis* infection in freshwater fishes in the Pearl River Delta. *Parasitol. Res.* 107, 835–839, 2010.
- Choi D, Hong ST, Imaging diagnosis of clonorchiasis. *Korean J. Parasitol.* 45, 77–85, 2007.
- Dorny P et al., Emerging food-borne parasites. *Vet. Parasitol.* 163, 196–206, 2009.
- Fried B, Reddy A, Mayer D, Helminths in human carcinogenesis. *Cancer Lett.* 305, 239–249, 2011.
- Kaiser JJ, Utzinger: Food-borne trematodiasis. *Clin. Microbiol. Rev.* 22, 466–483, 2009.
- Kim YJ et al., Performance of an enzyme-linked immunosorbent assay for detection of *Clonorchis sinensis* infestation in high- and low-risk groups. *J. Clin. Microbiol.* 48, 2365–2367, 2010.
- Kim EM et al., Detection of *Clonorchis sinensis* in stool samples using real-time PCR. *Ann. Trop. Med. Parasitol.* 103, 513–518, 2009.
- Lin R et al., Investigations on the epidemiological factors of *Clonorchis sinensis* infection in an area of south China. *Southeast Asian J. Trop. Med. Public Health* 36, 1114–1117, 2005.
- Abou-Basha LM et al., Epidemiological study of heterophyiasis among humans in an area of Egypt. *East Mediterr. Health J.* 6, 932–938, 2000.
- Anh NT et al., Poultry as reservoir for fishborne zoonotic trematodes in Vietnamese fish farms. *Vet. Parasitol.* 169, 391–394, 2010.
- Belizario YY et al., Intestinal heterophyiasis: an emerging food-borne parasitic zoonosis in southern Philippines. *S.E. Asian J. Trop. Med. Public Health* 32, Suppl. 2, 36–42, 2001.
- Carney WP, Echinostomiasis – a snail-borne intestinal trematode zoonosis. *Southeast Asian J. Trop. Med Public Health.* 22, S206–S211, 1991.
- Chai JY et al., High prevalence of *Haplorchis taichui*, *Prosthodendrium molenkampi*, and other helminth infections among people in Khammouane Province, Lao PDR. *Korean J. Parasitol.* 47, 243–247, 2009.
- Fried B, Graczyk TK, Tamang L, Food-borne intestinal trematodiasis in humans. *Parasitol. Res.* 93, 159–170, 2004.
- Graczyk TK, Fried B, Echinostomiasis: a common but forgotten food-borne disease. *Am. J. Trop. Med. Hyg.* 58, 501–504, 1998.
- Hong SJ et al., Infection status of dragonflies with *Plagiorchis muris* metacercariae in

- Korea. Korean J. Parasitol. 37, 65–70, 1999.
- Lee SH, Chai JY, A review of *Gymnophalloides seoi* (Digena: Gymnophallidae) and human infections in the Republic of Korea. Korean J. Parasitol. 39, 85–118, 2001.
- WHO, Report Joint WHO/FAO workshop on food-borne trematode infections in Asia. Report Series Number: RS/2002/GE/40(VTN), 2002.
- 4.3.3 Dikrozöliose**
- Bourgat R, Seguin D, Bayssade-dufour C, Données nouvelles sur *Dicrocoelium hospes* Loos, 1907: Anatomie de l'adulte et cycle évolutif. Ann. Parasitol. Hum. Comp. 50, 701–714, 1975.
- Drabick JJ et al., *Dicrocoeliasis* (lancet fluke disease) in an HIV seropositive man. JAMA 259, 567–568, 1988.
- Karadag B et al., An unusual case of biliary obstruction caused by *Dicrocoelium dendriticum*. Scand. J. Infect. Dis. 37, 385–388, 2005.
- Magi F et al., *Dicrocoelium dendriticum*: a true infection? Infez. Med. 17, 115–116, 2009.
- Manga-González MY, González-Lanza C, Field and experimental studies on *Dicrocoelium dendriticum* and *dicrocoeliasis* in northern Spain. J. Helminthol. 79, 291–302, 2005.
- Otranto D, Traversa D, A review of *dicrocoeliasis* of ruminants including recent advances in the diagnosis and treatment. Vet. Parasitol. 107, 317–335, 2002.
- Otranto D, Traversa D, *Dicrocoeliasis* of ruminants: a little known fluke disease. Trend Parasitol. 19, 12–15, 2003.
- Rack J, Adusu E, Jelinek T, Humane Infektion mit *Dicrocoelium dendriticum*. Dtsch. Med. Wochenschr. 129, 2538–2540, 2004.
- Romig T, Lucius R, Frank W, Cerebral larvae in the second intermediate host of *Dicrocoelium dendriticum* (Rudolphi, 1819) and *Dicrocoelium hospes* Loos, 1907 (Trematodes, *Dicrocoeliidae*). Z. Parasitenkd. 63, 277–286, 1980.
- Schweiger F, Kuhn M, *Dicrocoelium dendriticum* infection in a patient with Crohn's disease. Can. J. Gastroenterol. 22, 571–573, 2008.
- Soyer T et al., Rare gallbladder parasitosis mimicking cholelithiasis: *Dicrocoelium dendriticum*. Eur. J. Pediatr. Surg. 18, 280–281, 2008.
- Vogel H, Falcao J, Über den Entwicklungsgang des Lanzettegels (*Dicrocoelium dendriticum*) in Deutschland. Z. Tropenmed. Parasitol. 5, 275–296, 1954.
- 4.3.4 Fasziole**
- Aksoy DY et al., *Fasciola hepatica* infection: clinical and computerized tomographic findings in ten patients. Turk. J. Gastroenterol. 17, 40–45, 2006.
- Behar JM, Winston JS, Borgstein R, Hepatic fascioliasis at a London hospital – the importance of recognising typical radiological features to avoid a delay in diagnosis. Br. J. Radiol. 82, 189–193, 2009.
- Cantisani V et al., Diagnostic imaging in the study of human hepatobiliary fascioliasis. Radiol. Med. 115, 83–92, 2010.
- Dauchy FA et al., Distomatose à *Fasciola hepatica*: étude retrospective sur 23 ans au CHU de Bordeaux. Presse Med. 36, 1545–1549, 2007.
- Espinoza JR et al., Evaluation of Fas2-Elisa for the serological detection of *Fasciola hepatica* infection in humans. A. J. Trop. Med. Hyg. 76, 977–982, 2007.
- Hammami H, Hamed N, Ayadi A, Epidemiological studies on *Fasciola hepatica* in Gafsa Oases (south west of Tunisia). Parasite 14, 261–264, 2007.
- Le TH et al., Human fascioliasis and the presence of hybrid/introgressed forms of *Fasciola hepatica* and *Fasciola gigantica* in Vietnam. Int. J. Parasitol. 38, 725–730, 2008.
- Mailles A et al., Commercial watercress as a emerging source of fascioliasis in Northern France in 2002: results from an outbreak investigation. Epidemiol. Infect. 134, 942–945, 2006.
- Marcos L et al., Risk factors for *Fasciola hepatica* infection in children: a case-control study. Trans. R. Soc. Trop. Med. Hyg. 100, 158–166, 2006.
- Marcos LA et al., Natural history, clinicoradiologic correlates, and response to triclabendazole in acute massive fascioliasis. Am. J. Trop. Med. Hyg. 78, 222–227, 2008.
- Mas-Coma S, Valero MA, Bargues MD, *Fasciola*, *lymnaeids* and human fascioliasis, with a global overview on disease transmission, epidemiology, evolutionary genetics, molecular epidemiology and control. Adv. Parasitol. 69, 41–146, 2009.
- Parkinson M, O'Neill SM, Dalton JP, Endemic human fasciolosis in the Bolivian Alti-

- plano. *Epidemiol. Infect.* 135, 669–674, 2007.
- Ubeira FM et al., MM3-ELISA detection of *Fasciola hepatica* coproantigens in preserved human stool samples. *Am. J. Trop. Med. Hyg.* 81, 156–162, 2009.
- Yilmaz H, Gödekermerkan A, Human fascioliasis in Van province, Turkey. *Acta Trop.* 92, 161–162, 2004.
- Ying M, Xiaosu H, Wang B, A case of ectopic parasitism: *Fasciola hepatica* larvae burrow through a human brain and mimic cerebral aneurysm. *Trans. R. Soc. Trop. Med. Hyg.* 101, 1051–1052, 2007.
- Zhou L et al., Multiple brain hemorrhages and hematomas associated with ectopic fascioliasis in brain and eye. *Surg. Neurol.* 516–521, 2008.
- 4.3.5 Fasziolepse**
- Bhattacharjee HKD, Yadav, Bagga D, Fasciolopiasis presenting as intestinal perforation: case report. *Trop. Gastroenterol.* 30, 40–41, 2009.
- Graczyk TK, Gilman RH, Fried B, Fasciolopsiasis: is it a controllable food-borne disease? *Parasitol. Res.* 87, 80–83, 2001.
- Le TH et al., Case report: unusual presentation of *Fasciolopsis buski* in a Vietnamese child. *Trans. R. Soc. Trop. Med. Hyg.* 98, 193–194, 2004.
- Mas-Coma S, Bargues MD, Valero MA, Fascioliasis and other plant-borne trematode zoonoses. *Int. J. Parasitol.* 35, 1255–1278, 2005.
- Plaut AG, Kampanart-Sanyakorn C, Manning GS, A clinical study of *Fasciolopsis buski* infection in Thailand. *Trans. R. Soc. Trop. Med. Hyg.* 63, 470–478, 1969.
- Sripa B et al., Food – borne trematodiasis in Southeast Asia: epidemiology, pathology, clinical manifestation and control. *Adv. Parasitol.* 72, 305–350, 2010.
- Wiwanitkit V, Suwansakri J, Chalyakhun Y, High prevalence of *Fasciolopsis buski* in an endemic area of liver fluke infection. *Medgen Med.* 4, 6, 2002.
- 4.3.6 Opisthorchose**
- Andrews RH, Sithithavorn P, Petney TN, *Opisthorchis viverrini*: an underestimated parasite in world health. *Trends Parasitol.* 24, 497–501, 2008.
- Armignacco O et al., Human illnesses caused by *Opisthorchis felinus* fluke, Italy. *Emerg. Infect. Dis.* 14, 1902–1905, 2008.
- Berger B, Vierbuchen M, *Opisthorchiasis* simulating a malignancy. *Gastroenterol.* 39, 173–175, 2001.
- Cherdron A, Fiegel P, *Opisthorchis felinus* – der Katzenleberegel: Differentialdiagnose bei Schmerzen im rechten Oberbauch. *Dtsch. Med. Wochenschr.* 117, 328–331, 1992.
- Enes JE et al., Prevalence of *Opisthorchis viverrini* infection in canine and feline hosts in three villages, Khon Kaen Province, northeastern Thailand. *Southeast Asian J. Trop. Med. Public Health* 41, 36–42, 2010.
- Ewald PW, An evolutionary perspective on parasitism as a cause of cancer. *Adv. Parasitol.* 68, 21–43, 2009.
- Intapan PM et al., Rapid molecular detection of *Opisthorchis viverrini* in human fecal samples by real-time polymerase chain reaction. *Am. J. Trop. Med. Hyg.* 81, 917–920, 2009.
- Kaewpitoon N et al., Knowledge, attitude and practice related to liver fluke infection in northeast Thailand. *World. J. Gastroenterol.* 28, 1837–1840, 2007.
- Lima dos Santos C, Hazard analysis critical control point and aquaculture. In: Public, animal, and environmental aquacultures health issues. (eds. Jahncke ML, Garrett ES, Reilly A, Martin RE, Cole E), Chichester, Wiley-Interscience Inc., pp. 103–119, 2002.
- Lovis I et al., PCR diagnosis of *Opisthorchis viverrini* and *Haplorchis taichui* infections in a Lao community in an area of endemicity and comparison of diagnostic methods for parasitological field surveys. *J. Clin. Microbiol.* 47, 1517–1523, 2009.
- Schuster RK, *Opisthorchiidosis* – a review. *Infect. Disord. Drug Targets* 10, 402–415, 2010.
- Touch S et al., Discovery of *Opisthorchis viverrini* metacercariae in freshwater fish in southern Cambodia. *Acta Trop.* 111, 108–113, 2009.
- Watanapa P, Watanapa WB, Liver fluke-associated cholangiocarcinoma. *Brit. J. Surg.* 89, 962–970, 2002.
- WHO Report Series Number: RS/2002/GE/40(VTN).

Yossepowitch O et al., Opisthorchiasis from imported raw fish. *Emerg. Infect. Dis.* 10, 2122–2126, 2004.

4.3.7 Paragonimose

- Aka NA et al., Human paragonimiasis in Afrika. *Ann. Afr. Med.* 7, 153–162, 2008.
- Blair D et al., *Paragonimus skjabini* Chen, 1959 Digenea: Paragonimidae) and related species in eastern Asia: a combined molecular and morphological approach to identification and taxonomy. *Syst. Parasitol.* 60, 1–21, 2005.
- Calvopina M et al., Comparison of two single-day regimens of trclabendazole for the treatment of human pulmonary paragonimiasis. *Trans. R. Soc. Trop. Med. Hyg.* 97, 451–454, 2003.
- Cha SH et al., Cerebral paragonimiasis in early active stage: CT and MR features. *Am. J. Roentgenol.* 162, 141–145, 1994.
- Choo JD et al., Chronic cerebral paragonimiasis combined with aneurysmsubarachnoid hemorrhage. *Am J. Trop. Med. Hyg.* 69, 466–469, 2003.
- Doanh PN et al., Morphological and molecular identification of two *Paragonimus* spp. of which metacercariae concurrently found in a land crab, *Potamiscus tannanti*, collected in Yenbai province, Vietnam. *Parasitol. Res.* 100, 1075–1082, 2007.
- Kang SY et al., A case of chronic cerebral paragonimiasis *westermani*. *Korean J. Parasitol.* 38, 167–171, 2000.
- Kuroki M et al., High resolution computed tomography findings on *P. westermani*. *J. Thorac Imaging* 20, 210–213, 2005.
- Liu Q et al., Paragonimiasis: an important food-borne zoonosis in China. *Trends Parasitol.* 24, 318–323, 2008.
- Nikouawa A et al., Paragonimiasis in Cameroon: molecular identification, serodiagnosis and clinical manifestation. *Trans. R. Soc. Trop. Med. Hyg.* 103, 255–261, 2009.
- Niu JF, Lin LH, Advances in clinical therapeutics of paragonimiasis, *Endemic Dis. Bulletin* 16, 101–102, 2001.
- Procop GW, North American paragonimiasis (caused by *Paragonimus kellicotti*) in the context of global paragonimiasis. *Clin Microbiol. Rev.* 22, 415–446, 2009.
- Sim YS et al., *Paragonimus westermani* found in the tip of a little finger. *Intern Med.* 49, 1645–1648, 2010.

Udaka F et al., CT findings of cerebral paragonimiasis in the chronic stage. *Neuroradiology* 30, 31–34, 1988.

Vidamali S et al., Paragonimiasis: a common cause of persistent pleural effusion in Lao PDR. *Trans. R. Soc. Trop. Med. Hyg.* 103, 1019–1023, 2009.

Yoonuan T et al., *Paragonimus* prevalences in Saraburi Province, Thailand. *Southeast Asian J. Trop. Med. Public Health* 39, 593–600, 2008.

4.3.9 Schistosomose

- Amarir F et al., National serologic survey of haematobium schistosomiasis in Morocco: evidence for elimination. *Am. J. Trop. Med. Hyg.* 84, 15–19, 2011.
- Attwood SW et al., The distribution of Mekong schistosomiasis, past and future: preliminary indications from an analysis of genetic variation in the intermediate host. *Parasitol. Int.* 57, 256–270, 2008.
- Attwood SW et al., The phylogeography of Asian *Schistosoma* (Trematoda: Schistosomatidae). *Parasitology* 125, 99–112, 2002.
- Belo S et al., Prevalence, behavioural and social factors with *Schistosoma intercalatum* and geohelminth infections in Sao Tomé and Príncipe. *Parassitologia* 47, 227–231, 2005.
- Burke ML et al., Immunopathogenesis of human schistosomiasis. *Parasite Immunol.* 31, 163–176, 2009.
- Chitsulo L et al., The global status of schistosomiasis and its control. *Acta Trop.* 77, 41–51, 2000.
- Christensen NO, Mutani A, Frandsen F, A review of the biology and transmission ecology of African bovine species of the genus *Schistosoma*. *Z. Parasitenkd.* 69, 551–570, 1983.
- Duus LM et al., The *Schistosoma*-specific antibody response after treatment in non-immune travellers. *Scand. J. Infect. Dis.* 41, 285–290, 2009.
- French MD et al., Observed reductions in *Schistosoma mansoni* transmission from large-scale administration of praziquantel in Uganda: a mathematical modelling study. *PLoS Negl. Trop. Dis.* 4, e897, 2010.
- Gray DJ et al., A cluster-randomised intervention trial against *Schistosoma japonicum* in the Peoples' Republic of China: bovine and human transmission. *PLoS One* 4, e5900, 2009.

- Hotez PJ, Fenwick A, Schistosomiasis in Africa: an emerging tragedy in our new global health decade. *PLoS Negl. Trop. Dis.* 3, e485, 2009.
- Jauréguiberry S, Paris L, Caumes L, Acute schistosomiasis, a diagnostic and therapeutic challenge. *Clin. Microbiol. Infect.* 16, 225–231, 2010.
- Jusot JF et al., *Schistosoma intercalatum* bilharziasis: clinical and epidemiological considerations. *Med. Trop. (Mars)* 57, 280–288, 1997.
- Kato-Hayashi N et al., Identification and differentiation of human schistosomes by polymerase chain reaction. *Exp. Parasitol.* 124, 325–329, 2010.
- Lambertucci JR, Acute schistosomiasis mansoni: revisited and reconsidered. *Mem. Inst. Oswaldo Cruz* 105, 422–435, 2010.
- McManus DP, Loukas A, Current status of vaccines for schistosomiasis. *Clin. Microbiol. Rev.* 21, 225–242, 2008.
- Lieshout van L et al., Immunodiagnosis of schistosomiasis by determination of the circulating antigens CAA and CCA, in particular in individuals with recent or light infections. *Acta Trop.* 77, 69–80, 2000.
- Muth S et al., *Schistosoma mekongi* in Cambodia and Lao People's Democratic Republic. *Adv. Parasitol.* 72, 179–203, 2010.
- Nascimento-Cavalho CM, Moreno-Cavalho OA, Neuroschistosomiasis due to *Schistosoma mansoni*: a review of pathogenesis, clinical syndromes and diagnostic approaches. *Rev. Inst. Trop. Sao Paulo* 47, 179–184, 2005.
- Pinto-Silva RA et al., Ultrasound in schistosomiasis mansoni. *Mem. Inst. Oswaldo Cruz* 105, 479–484, 2010.
- Ross AG et al., Katayama syndrome. *Lancet Infect. Dis.* 7, 218–224, 2007.
- Rudge JW et al., Population genetics of *Schistosoma japonicum* within the Philippines suggest high transmission between humans and dogs. *PLoS Negl. Trop. Dis.* 2, e340, 2008.
- Rudge JW et al., Parasite genetic differentiation by habitat type and host species: molecular epidemiology of *Schistosoma japonicum* in hilly and marshland areas of Anhui Province, China. *Mol. Ecol.* 18, 2134–2147, 2009.
- Sagin DD et al., Schistosomiasis malayense-like infection among the Penan and other interior tribes (Orang Ulu) in upper Rejang River Basin, Sarawak, Malaysia. *Southeast Asian J. Trop. Med. Public Health* 32, 27–32, 2001.
- Shiff C et al., Non-invasive methods to detect *Schistosoma*-based bladder cancer: is the association sufficient for epidemiological use. *Trans. R. Soc. Trop. Med. Hyg.* 104, 3–5, 2010.
- Standley CJ et al., Confirmed infection with intestinal schistosomiasis in semi-captive wild-borne chimpanzees on Ngamba Island, Uganda. *Vector Borne Zoonotic Dis.* 11, 169–176, 2011.
- Steinauer ML et al., Introgressive hybridization of human and rodent schistosome parasites in western Kenya. *Mol. Evol.* 17, 5062–5074, 2008.
- Wolmarans CT et al., An experimental *Schistosoma mattheei* infection in man. *Onderstepoort J. Vet. Res.* 57, 211–214, 1990.
- 4.3.10 Zerkariendermatitis**
- Barber KE, Caira JN, Investigation of the life cycle and adult morphology of the avian fluke *Austroilharzia variglandis* (Trematoda: Schistosomatidae) from Connecticut. *J. Parasitol.* 81, 584–592, 1995.
- Bastert J et al., Aquarium dermatitis: cercarial dermatitis in an aquarist. *Dermatol.* 197, 84–86, 1998.
- Gentile L de et al., Cercarial dermatitis in Europe: a new public health problem? *Bull. WHO* 74, 159–163, 1996.
- Jouet D et al., Final hosts and variability of *Trichobilharzia regenti* under natural conditions. *Parasitol. Res.* 107, 923–930, 2010.
- Hertel J et al., Detection of bird *Schistosomes* in lakes by PCR and filter-hybridization. *Exp. Parasitol.* 101, 57–63, 2002.
- Horak P, Kolárova L, Dvorák J, *Trichobilharzia regenti* n.sp. (Schistosomatidae, Bilharziellinae), a new nasal schistosome from Europe. *Parasite* 5(4), 349–357, 1998.
- Hradlikova K, Horak P, Neurotropic behaviour of *Trichobilharzia regenti* in ducks and mice. *J. Helminthol.* 76, 137–141, 2002.
- Kimmig P, Meier M, Parasitologic studies, diagnosis and clinical aspects of cercarial dermatitis – public health significance for bathing waters in temperate zones. *Zentralbl. Bacteriol. Microbiol. Hyg B.* 181, 390–408, 1985.
- Kimmig P, Zerkarien. In: *Lexikon der Infektionskrankheiten*. Darai G, Handermann

- M, Sonntag HG, Tidona CA, Zöller L (Hrsg.) Springer, 2010.
- Kolarova L, Sykora J, Bah BA, Serodiagnosis of cercarial dermatitis with antigens of *Trichobilharzia szidati* and *Schistosoma mansoni*. *Cent Eur J Public Health* 2, 19–22, 1994.
- Levesque B et al., Investigation of an outbreak of cercarial dermatitis. *Epidemiol. Infect.* 129, 379–386, 2002.
- Loy C, Haas W, Prevalence of cercariae from *Lymnaea stagnalis* snails in a pond system in Southern Germany. *Parasitol. Res.* 87, 878–882, 2001.
- Müller V, Kimmig P, *Trichobilharzia franki* n.sp. – a causative agent of swimmer's itch in south-western Germany. *Appl. Parasitol.* 35, 12–31, 1994.
- Müller V, Kimmig P, Frank W, Die Wirkung von Praziquantel auf *Trichobilharzia ocellata* (Digenea, Schistosomatidae), einem Erreger von Dermatitis beim Menschen. *Z. Parasitenkd.* 15, 203–266, 1993.
- Narain K, Rajguru SK, Mahanta J, Incrimination of *Schistosoma spindale* as a causative agent of farmer's dermatitis in Assam with a note on liver pathology in mice. *J. Commun. Dis.* 30, 1–6, 1998.
- Neuhaus W, Biologie und Entwicklung von *Trichobilharzia szidati* n.sp. (Trematoda, Schistosomatidae), einem Erreger von Dermatitis beim Menschen. *Z Parasitenkd* 15, 203–266, 1952.
- Sahba GH, Malek EA, Dermatitis caused by cercariae of *Orientobilharzia turkestanicum* in the Caspian Sea area of Iran. *Am. J. Trop. Med. Hyg.* 28, 912–913, 1979.
- Wulff C, Haeberlin S, Haas W, Cream formulations protecting against cercarial dermatitis by *Trichobilharzia*. *Parasitol. Res.* 101, 91–97, 2007.
- 4.3.11 Andere Trematodeninfektionen**
- Butcher AR et al., Locally acquired *Brachylaima* sp. (Digenea: Brachylaimidae) intestinal fluke infections in two South Australian infants. *Med. J. Australia* 164, 475–478, 1996.
- Chai JY et al., Foodborne intestinal flukes in Southeast Asia. *Korean J. Parasitol.* 47, Suppl. S69–S102, 2009.
- Freeman RS et al., Fatal human infection with mesocercariae of the trematode *Alaria americana*. *Am. J. Trop. Med. Hyg.* 25, 803–807, 1976.
- Kramer MH, Eberhard ML, Blankenberg TA, Respiratory symptoms and subcutaneous granulomas caused by mesocercariae: a case report. *Am. J. Trop. Med. Hyg.* 55, 447–448, 1996.
- McDonald HR et al., Two cases of intraocular infection with *Alaria mesocercariae* (Trematoda). *Am. J. Ophthalmol.* 117, 447–455, 1994.
- Möhl K et al., Biology of *Alaria* spp. and human exposition risk to *Alaria mesocercariae* – a review. *Parasitol. Res.* 105, 1–15, 2009.
- 4.4 Durch Zestoden verursachte Erkrankungen**
- 4.4.1 Diphyllobothriose**
- Beldsoe GE, Oria MP, Potential hazards in cold-smoked fish. *J. Food Sci.* 66 (Suppl), S1100–S1103, 2001.
- Dupouy-Camet J, Perduzzi R, Current situation of human diphyllobothriasis in Europe. *Euro Surveill.* 9, 31–35, 2004.
- Jackson Y et al., *Diphyllobothrium latum* outbreak from marinated raw perche, Lake Geneva, Switzerland. *Emerg. Infect. Dis.* 13, 2007–2008, 2007.
- Sager H et al., Coprological study on intestinal helminths in Swiss dogs: temporal aspects of anthelmintic treatment. *Parasitol. Res.* 98, 333–338, 2006.
- Schol T et al., Update on the human broad tapeworm (Genus *Diphyllobothrium*), including clinical relevance. *Clin Microbiol. Rev.* 22, 146–160, 2009.
- Shimizu H et al., *Diphyllobothriasis nihonkaiense*: possibly acquired in Switzerland from imported Pacific salmon. *Intern. Med.* 47, 1359–1362, 2008.
- Wicht B et al., Multiplex PCR for differential identification of broad tapeworms (Cestoda: *Diphyllobothrium*) infecting humans. *J. Clin. Microbiol.* 48, 3111–3116, 2010.
- 4.4.2 Dipylidiose**
- Chappell CL, Enos JP, Penn HM, *Dipylidium caninum*, an underrecognized infection in infants and children. *Ped. Inf. Dis. J.* 9, 745–747, 1990.
- Molina CP, Ogburn J, Adegboyega P, Infection by *Dipylidium caninum* in an infant.

- Arch. Pathol. Lab. Med. 127, 157–159, 2003.
- Raitiere CR, Dog tapeworm (*Dipylidium caninum*) infestation in a 6-months old infant. *J. Fam. Practice* 34, 101–102, 1992.
- Reid CJ, Perry EM, Evans N, *Dipylidium caninum* in an infant. *Eur. J. Pediatr.* 151, 502–503, 1992.
- Sankari A et al., *Dipylidium caninum* mimicking recurrent *Enterobius vermicularis* (pinworm) infection. *Clin. Pediatr. (Phila)* 47, 397–399, 2008.
- Wijesundera M de S, The use of praziquantel in human infections with *Dipylidium*. *Trans. R. Soc. Trop. Med. Hyg.* 83, 383, 1989.
- 4.4.3 Echinokokkose**
- D'Alessandro A, Polycystic echinococcosis in tropical America: *Echinococcus vogeli* and *E. oligarthrus*. *Acta Trop.* 67, 43–65, 1997.
- Deplazes P et al., Role of pets and cats in the transmission of helminth zoonoses in Europe, with a focus on echinococcosis and toxocarosis. *Vet. Parasitol.*, doi: 10.1016/j.vetpar.2011.07.014.
- Eckert J, Deplazes P, Kern P, Alveolar echinococcosis (*Echinococcus multilocularis*) and neotropical forms of echinococcosis (*Echinococcus vogeli*, *Echinococcus oligarthrus*). In: Brown D, Palmers S, Torgerson PR, Soulsby EJJ (eds.): *Zoonoses*. 2nd ed. Oxford University Press, Oxford, 2011.
- McManus DP et al., Echinococcosis. *Lancet*, 362, 1295–1304, 2003.
- Saarma U et al., A novel phylogeny for the genus *Echinococcus*, based on nuclear data, challenges relationships based on mitochondrial evidence. *Parasitology* 136, 317–328, 2009.
- Thompson RCA, The taxonomy, phylogeny and transmission of *Echinococcus*. *Exp. Parasitol.* 119, 439–446, 2008.
- Thompson RC, McManus DP, Towards a taxonomic revision of the genus *Echinococcus*. *Trends Parasitol.* 18, 452–457, 2002.
- 4.4.3.1 Alveoläre Echinokokkose**
- Berke O, Romig T, Keyerlingk MY, Emergence of *Echinococcus multilocularis* among red foxes in northern Germany, 1991–2005. *Vet. Parasitol.* 155, 319–322, 2008.
- Bresson-Hadni S et al., A twenty-year history of alveolar echinococcosis: analysis of a series of 117 patients from eastern France. *Eur. J. Gastroenterol. Hepatol.* 12, 327–336, 2000.
- Brunetti E, Kern P, Vuitton DA, Writing Panel for the WHO-IWGE: Expert consensus for the diagnosis and treatment of cystic and alveolar echinococcosis in humans. *Acta Tropica* 114, 1–16, 2010.
- Ciftcioglu MA et al., Fine needle aspiration biopsy in hepatic *Echinococcus multilocularis*. *Acta Cytol.* 41, 649–652, 1997.
- Deplazes P, Eckert J, Diagnosis of the *Echinococcus multilocularis* infection in final hosts. *Appl. Parasitol.* 37, 245–252, 1996.
- Deplazes P, Eckert J, Veterinary aspects of alveolar echinococcosis – a zoonosis of public health significance. *Vet. Parasitol.* 98, 65–87, 2001.
- Deplazes P, Hegglin D, Gloor S, Romig T, Wilderness in the city: the urbanization of *Echinococcus multilocularis*. *Trends Parasitol.* 20, 77–84, 2004.
- Dinkel A et al., Detection of *Echinococcus multilocularis* in the definitive host: Coprodiagnosis by PCR as an alternative to necropsy. *J. Clin. Microbiol.* 36, 1871–1876, 1998.
- Dyachenko V et al., *Echinococcus multilocularis* infections in domestic dogs and cats in Germany and other European countries. *Vet. Parasitol.* 157, 244–253, 2008.
- Eckert J, Conraths FJ, Tackmann K, Echinococcosis: An emerging or re-emerging zoonosis? *Int. J. Parasitol.* 30, 1283–1294, 2000.
- Eckert J, Deplazes P, Alveolar echinococcosis in humans: the current situation in Central Europe and the need for countermeasures. *Parasitol. Today* 15, 315–319, 1999.
- Godot V et al., Resistance/susceptibility to *Echinococcus multilocularis* infection and cytokine profile in humans. Influence of the HLA B8, DR3, DQ2 haplotype. *Clin. Exp. Immunol.* 121, 491–498, 2000.
- Hofer S et al., High prevalence of *Echinococcus multilocularis* in urban red foxes (*Vulpes vulpes*) and voles (*Arvicola terrestris*) in the city of Zürich, Switzerland. *Parasitology* 120, 135–142, 2000.
- Jenkins DJ, Romig T, Thompson RCA, Emergence/re-emergence of *Echinococcus* spp. – a global update. *Int. J. Parasitol.* 35, 1205–1219, 2005.
- Kadry Z et al., Surgical is better than conservative therapy in alveolar echinococcosis:

- Long term follow-up in 90 consecutive patients. *J. Gastrointest. Surg.* 7, 287, 2003.
- Kern P et al., European echinococcosis registry: human alveolar echinococcosis, Europe, 1982–2000. *Emerg. Infect. Dis.* 9, 343–349, 2003.
- Kimmig P, Oehme R, Echinococcus. In: Neumeister B, Geiss HK, Braun RW, Kimmig P, *Mikrobiologische Diagnostik*, Thieme, 2010.
- Koch S et al., Experience of liver transplantation for incurable alveolar echinococcosis: a 45 case European collaborative report. *Transplantation* 75, 856–863, 2003.
- Overgaauw PAM et al., Zoonotic parasites in fecal samples and fur from dogs and cats in The Netherlands. *Vet. Parasitol.* 163, 115–122, 2009.
- Romig T et al., An epidemiologic survey of human alveolar echinococcosis in southwestern Germany. *Romerstein Study Group. Am. J. Trop. Med. Hyg.* 61, 566–573, 1999.
- Romig T, Dinkel A, Mackenstedt U, The present situation of echinococcosis in Europe. *Parasitol. Intern.* 55, 187–191, S191, 2006.
- Romig T et al., Impact of praziquantel baiting on intestinal helminths of foxes in southwestern Germany. *Helminthologia* 44, 206–213, 2007.
- Thompson RC et al., Comparative development of *Echinococcus multilocularis* in its definitive hosts. *Parasitology* 132, 709–716, 2006.
- Torgerson PR, Dogs, vaccines and *Echinococcus*. *Trends Parasitol.* 25, 57–58, 2009.
- Veit P et al., Influence of environmental factors on the infectivity of *Echinococcus multilocularis* eggs. *Parasitology* 110, 79–86, 1995.
- 4.3.3.2 Zystische Echinokokkose**
- Brunetti E, Kern P, Vuitton DA, Writing Panel for the WHO-IWGE: Expert consensus for diagnosis and treatment of cystic and alveolar echinococcosis in humans. *Acta Tropica* 114, 1–16, 2010.
- Cobo F et al., Albendazole plus praziquantel versus albendazole alone as a pre-operative treatment in intraabdominal hydatidosis caused by *Echinococcus granulosus*. *Trop. Med. Int. Health* 3, 462–466, 1998.
- Craig PS et al., Diagnosis of canine echinococcosis: Comparison of coproantigen and serum antibody tests with arecoline purgation in Uruguay. *Vet. Parasitol.* 56, 293–301, 1995.
- Dakak M et al., Surgical treatment for pulmonary hydatidosis (a review of 422 cases). *J. R. Coll. Surg. Edinb.* 47, 689–692, 2002.
- Dinkel A et al., Detection of *Echinococcus multilocularis* in the definitive host: Coprodiagnosis by PCR as an alternative to necropsy. *J. Clin. Mikrobiol.* 36, 1871–1876, 1998.
- Eckert J, Conraths FJ, Tackmann K, Echinococcosis: an emerging or re-emerging zoonosis? *Int. J. Parasitol.* 30, 1283–1294, 2000.
- El-On J, Benzimidazole treatment of cystic echinococcosis. *Acta Trop.* 85, 243–252, 2003.
- Franchi C, Di Vico B, Teggi A, Long-term evaluation of patients with hydatidosis treated with benzimidazole carbamates. *Clin. Infect. Dis.* 29, 304–309, 1999.
- Hüttner M, Romig T, *Echinococcus*-species in african wildlife. *Parasitology*, 136, 1089–1095, 2009.
- Kimmig P, Oehme R, Echinococcus. In: Neumeister B, Geiss HK, Braun RW, Kimmig P, *Mikrobiologische Diagnostik*, Thieme, 2010.
- Koppen S et al., Anaphylaktischer Schock bei einem 25-jährigen Asylbewerber aus Georgien. *Dtsch. Med. Wochenschr.* 12, 663–666, 2003.
- Ortona E et al., An update on immunodiagnosis of cystic echinococcosis. *Acta Trop.* 85, 165–171, 2003.
- Poretti D et al., Differential immunodiagnosis between cystic hydatid disease and the cross-reactive pathologies. *Am. J. Trop. Med. Hyg.* 60, 193–198, 1999.
- Seimenis A, Overview of the epidemiological situation on echinococcosis in the Mediterranean region. *Acta Trop.* 85, 191–195, 2003.
- Torgerson PR et al., The emerging epidemic of echinococcosis in Kazakhstan. *Trans. R. Soc. Trop. Med. Hyg.* 96, 124–128, 2002.
- WHO/OIE, Manual on echinococcosis in humans and animals. Eds.: Eckert J, Gemmell MA, Meslin FX, Pawlowski Z. PAM3, Office International des Epizooties, 2001.
- WHO Informal Working Group, International classification of ultrasound images in cystic echinococcosis for application in clinical and field epidemiological settings. *Acta Trop.* 85, 253–261, 2003.

4.4.4 Hymenolepse

- Chhakda T et al., Intestinal parasites in school-aged children in villages bordering Tonle Sap Lake, Cambodia. *Southeast Asian J. Trop. Med. Public Health* 37, 859–864, 2006.
- Gupta A et al., Chronic diarrhea caused by *Hymenolepis nana* in a renal transplant recipient. *Clin. Exp. Nephrol.* 13, 185–186, 2009.
- Marangi M et al., *Hymenolepis diminuta* infection in a child living in the urban area of Rome, Italy. *J. Clin. Microbiol.* 41, 3994–3995, 2003.
- Mehraj V et al., Prevalence and factors associated with intestinal parasitic infections among children in an urban slum of Karachi. *PLoS One* 3, e3680, 2008.
- Patamia I et al., A human case of *Hymenolepis diminuta* in a child from eastern Sicily. *Korean J. Parasitol.* 48, 167–169, 2010.
- Steinmann P et al., Rapid appraisal of human intestinal helminth infections among school children in Osh oblast, Kyrgyzstan. *Acta Trop.* 116, 178–184, 2010.
- Watwe SCK, *Hymenolepis diminuta* in a child from rural area. *Indian J. Pathol. Microbiol.* 51, 149–150, 2008.
- Wiwanitkit V, Overview of *Hymenolepis diminuta* infection among Thai patients. *Med-GenMed* 6, 7, 2004.
- Worku N et al., Malnutrition and intestinal parasitic infections in school children of Gondar, North West Ethiopia. *Ethiop. Med. J.* 47, 9–16, 2009.

4.4.5 Sparganose

- Bao XY, Ding XH, Lu YC, Sparganosis presenting as radiculalgia at the conus medullaris. *Clin Neurol Neurosurg.* 110, 843–846, 2008.
- Iwatani K et al., *Sparganum mansoni* parasitic infection in the lungs showing a nodule. *Pathol. Int.* 56, 674–677, 2006.
- Kim HJ et al., Intramuscular and subcutaneous sparganosis: sonographic findings. *J. Clin. Ultrasound* 36, 570–572, 2008.
- Lee KJ et al., A seroepidemiologic survey for human sparganosis in Gangweondo. *Korean J. Parasitol.* 40, 177–180, 2002.
- Li MW et al., Enzootic sparganosis in Guangdong, People's Republic of China. *Emerg. Infect. Dis.* 15, 1317–1318, 2009.

- Meric R et al., Disseminated infection caused by *Sparganum proliferum* in an AIDS patient. *Histopathology* 56, 824–828, 2010.
- Olson PD et al., Lethal invasive cestodiasis in immunosuppressed patients. *J. Infect. Dis.* 187, 1962–1966, 2003.
- Pampiglione S, Fiovaranti ML, Rivasi F, Human sparganosis in Italy. Case report and review of the European cases. *APMIS* 111, 349–354, 2003.
- Rengarajan S et al., Cerebral sparganosis: a diagnostic challenge. *Br. J. Neurosurg.* 22, 784–786, 2008.
- Sakamoto S et al., Testicular sparganosis in a child from Uruguay. *Acta Trop.* 88, 83–86, 2003.
- Song T et al., CT and MR characteristics of cerebral sparganosis. *AJNR Am. J. Neuroradiol.* 28, 1700–1705, 2007.
- Tung CC, Lin JW, Chou FF, Sparganosis in male breast. *J. Formos. Med. Assoc.* 104, 127–128, 2005.
- Yoon KC et al., Eyelid sparganosis. *Am. J. Ophthalmol.* 138, 873–875, 2004.

4.4.6 Taeniose saginata (einschließlich *Taenia asiatica*)

- Abuseir S et al., Visual diagnosis of *Taenia saginata* cysticercosis during meat inspection: is it unequivocal? *Parasitol. Res.* 99, 405–409, 2006.
- Abuseir S et al., Seroprevalence of *Taenia saginata* cysticercosis in the federal state of Lower Saxony in Germany. *Berl. Münch. Tierärztl. Wochenschr.* 123, 392–396, 2010.
- Anantaphruti MT et al., Sympatric occurrence of *Taenia solium*, *T. saginata*, and *T. asiatica*, Thailand. *Emerg. Infect. Dis.* 13, 1413–1416, 2007.
- Boone I et al., Distribution and risk factors of bovine cysticercosis in Belgian dairy and mixed herds. *Prev. Vet. Med.* 82, 1–11, 2007.
- Cabaret J et al., The use of urban sewage sludge on pastures: the cysticercosis threat. *Vet. Res.* 33, 575–597, 2002.
- Dias AK et al., *Taenia solium* and *Taenia saginata*: identification of sequence characterized amplified region (SCAR) markers. *Exp. Parasitol.* 117, 9–12, 2007.
- Dorny P, Praet N, *Taenia saginata* in Europe. *Vet. Parasitol.* 149, 22–24, 2007.
- Eom KS, What is Asian *Taenia*. *Parasitol. Int.* 55, S137–S141, 2006.

- Eom KS, Jeon HK, Rim HJ, Geographical distribution of *Taenia asiatica* and related species. *Korean J. Parasitol.* 47, S115–S124, 2009.
- Flütsch F et al., Case-control study to identify risk factors for bovine cysticercosis on farms in Switzerland. *Parasitology* 135, 641–646, 2008.
- Geysen D et al., Validation of meat inspection results for *Taenia saginata* cysticercosis by PCR-restriction fragment length polymorphism. *J. Food Prot.* 70, 236–240, 2007.
- Hoberg EP, Phylogeny of *Taenia*: species definitions and origins of human parasites. *Parasitol. Int.* 55, S23–S30, 2006.
- Kebede N, Tilahun G, Hailu A, Current status of bovine cysticercosis of slaughtered cattle in Addis Ababa abattoir, Ethiopia. *Trop. Anim. Health Prod.* 41, 291–294, 2009.
- Koul PA et al., Praziquantel in niclosamid-resistant *Taenia saginata* infection. *Scand. J. Infect. Dis.* 31, 603–604, 1999.
- Kyvsgaard NC et al., A case-control study of risk factors in light *Taenia saginata* cysticercosis in Danish cattle. *Acta Vet. Scand.* 32, 243–252, 1991.
- Lightowlers MW, Cestode vaccines: origins, current status and future prospects. *Parasitology* 133, S27–S42, 2006.
- Ogunremi O, Benjamin J, Development and field evaluation of a new serological test for *Taenia saginata* cysticercosis. *Vet Parasitol.* 169, 93–101, 2010.
- Pearse BH, Traub RJ, Davis A et al., Prevalence of *Cycticerus bovis* in Australian cattle. *Aust. Vet. J.* 88, 260–262, 2010.
- Scandrett B et al., Distribution of *Taenia saginata* cysticerci in tissues of experimentally infected cattle. *Vet. Parasitol.* 164, 223–231, 2009.
- 4.4.7 Taeniose solium und Zystizerkose**
- Alexander AM et al., Long-term clinical evaluation of asymptomatic subjects positive for circulating *Taenia solium* antigens. *Trans. R. Soc. Trop. Med. Hyg.* 104, 809–810, 2010.
- Ciampi de Andrade D et al., Cognitive impairment and dementia in neurocysticercosis: a cross-sectional controlled study. *Neurology* 74, 1288–1295, 2010.
- Deckers N, Dorny P, Immunodiagnosis of *Taenia solium* taeniosis/cysticercosis. *Trends Parasitol.* 26, 137–144, 2010.
- De Souza A et al., Natural history of solitary cerebral cysticercosis on serial magnetic resonance imaging and the effect of albendazole therapy on its evolution. *J. Neurol. Sci.* 288, 135–141, 2010.
- Fleury A et al., Clinical heterogeneity of human neurocysticercosis results from complex interactions among parasites, host and environmental factors. *Trans. R. Soc. Trop. Med. Hyg.* 104, 243–250, 2010.
- Fleury A et al., Neurocysticercosis, a persisting health problem in Mexico. *PLoS Negl. Trop. Dis.* 4, e805, 2010.
- Goel D et al., Natural history of solitary cerebral cysticercosis cases after albendazole therapy: a longitudinal follow-up study from India. *Acta Neurol. Scand.* 121, 204–208, 2010.
- Guezala MC et al., Development of a species-specific coproantigen ELISA for human *Taenia solium* taeniasis. *Am. J. Trop. Med. Hyg.* 81, 433–437, 2009.
- Handa U, Garg S, Mohan H, Fine needle aspiration in the diagnosis of subcutaneous cysticercosis. *Diagn. Cytopathol.* 36, 183–187, 2008.
- Hotez PJ, Neglected diseases and poverty in „The Other America“: the greatest health disparity in the United States? *PLoS Negl. Trop. Dis.* 1, e149, 2007.
- Huerta M et al., Parasite contamination of soil in households of a Mexican rural community endemic for neurocysticercosis. *Trans. R. Soc. Trop. Med. Hyg.* 102, 374–379, 2008.
- Ito A et al., Neurocysticercosis: clinical manifestation, neuroimaging, serology and molecular confirmation of histopathological specimens. *Southeast Asian J. Trop. Med. Public Health* 37, Suppl. 3: 74–81, 2006.
- Ito A et al., Cysticercosis/taeniasis in Asia and in the Pacific. *Vector Borne Zoonotic Dis.* 4, 95–107, 2004.
- Kim SW et al., Racemose cysticercosis in the cerebellar hemisphere. *J. Korean Neurosurg. Soc.* 48, 59–61, 2010.
- Lightowlers MW, Eradication of *Taenia solium* cysticercosis: a role for vaccination of pigs. *Int. J. Parasitol.* 40, 1183–1192, 2010.
- Matthaiou DK et al., Albendazole versus praziquantel in the treatment of neurocysticercosis: a meta-analysis of comparative trials. *PLoS Negl. Trop. Dis.* 12, e194, 2008.

- Mazumdar M, Pandharipande P, Poduri A, Does albendazole affect seizure remission and computed tomography response in children with neurocysticercosis? A systematic review and meta-analysis. *J. Child Neurol.* 22, 135–142, 2007.
- Parija SC, Gireesh AR, A serological study of cysticercosis in patients with HIV. *Rev. Inst. Med. Trop. Sao Paulo* 51, 185–189, 2009.
- Rajshekar V, Surgical management of neurocysticercosis. *Int. J. Surg.* 8, 100–104, 2010.
- Rath S et al., Orbital cysticercosis: clinical manifestations, diagnosis, management, and outcome. *Ophthalmology* 117, 600–605, 2010.
- Sáenz B, Ramirez J, Aluja A et al., Human and porcine neurocysticercosis: differences in the distribution and developmental stages of cysticerci. *Trop. Med. Int. Health* 13, 697–702, 2008.
- Salim L et al., Seroepidemiologic survey of cysticercosis-taeniasis in four central highland districts of Papua, Indonesia. *Am. J. Trop. Med. Hyg.* 80, 384–388, 2009.
- Sciotto E et al., The immune response in *Taenia solium* cysticercosis: protection and injury. *Parasite Immunol.* 29, 621–636, 2007.
- Sikasunge CS et al., *Taenia solium* porcine cysticercosis: viability of cysticerci and persistence of antibodies and cysticercal antigens after treatment with oxfendazole. *Vet. Parasitol.* 158, 57–66, 2008.
- Willingham AL, Engels D, Control of *Taenia solium* cysticercosis/taeniosis. *Adv. Parasitol.* 61, 509–566, 2006.
- Willingham AL et al., Combating *Taenia solium* cysticercosis in Southeast Asia an opportunity for improving human health and livestock production. *Adv. Parasitol.* 72, 235–266, 2010.
- 4.4.8 Zoenurose**
- Achenef M et al., *Coenurus cerebralis* infection in Ethiopian highland sheep: incidence and observations on pathogenesis and clinical signs. *Trop. Anim. Health Prod.* 31, 15–24, 1999.
- Avcioglu H et al., Prevalence and molecular characterization of bovine coenurosis from Eastern Anatolian region of Turkey. *Vet. Parasitol.* 176, 59–64, 2011.
- Bagrade G et al., Helminth parasites of the wolf *Canis lupus* from Latvia. *J. Helminthol.* 83, 63–68, 2009.
- Benger A et al., A human coenurus infection in Canada. *Am. J. Trop. Med. Hyg.* 30, 638–644, 1981.
- Benifla M et al., Huge hemispheric intraparenchymal cyst caused by *Taenia multiceps* in a child. Case report. *J. Neurosurg.* 107, 6 Suppl. 511–514, 2007.
- Collomb J et al., Contribution of NADH dehydrogenase subunit I and cytochrome C oxidase subunit I towards identifying a case of human coenuriasis in France. *J. Parasitol.* 93, 934–937, 2007.
- El-On J et al., *Taenia multiceps*: a rare human cestode infection in Israel. *Vet. Ital.* 44, 621–631, 2008.
- Fain A, Coenurosis in man and animals caused by *Taenia brauni setti* in Belgian Congo and Ruanda-Urundi. II. Report of 8 human cases. *Ann. Soc. Belg. Med. Trop.* 36, 679–696, 1956.
- Gauci C et al., Vaccination with recombinant oncosphere antigens reduces the susceptibility of sheep to infection with *Taenia multiceps*. *Int. J. Parasitol.* 38, 1041–1050, 2008.
- Ing MB, Schantz PM, Turner JA, Human coenurosis in North America: case reports and review. *Clin. Infect. Dis.* 27, 519–523, 1998.
- Oryan A et al., Pathological, molecular, and biochemical characterization of *Coenurus gaigeri* in Iranian native goats. *J. Parasitol.* 96, 961–967, 2010.
- Ozmen O et al., Clinicopathologic observations on *Coenurus cerebralis* in naturally infected sheep. *Schweiz. Arch. Tierheilkd.* 147, 129–134, 2005.
- Pau A et al., Long-term follow-up of the surgical treatment of intracranial coenurosis. *Br. J. Neurosurg.* 4, 39–43, 1990.
- Scala A, Varcasia A, Updates on morphobiology, epidemiology and molecular characterization of coenurosis in sheep. *Parassitologia* 48, 61–63, 2006.
- 4.4.9 Andere Zestodeninfektionen**
- Arizono N et al., Diplogonoporiasis in Japan: genetic analysis of five clinical isolates. *Parasitol. Int.* 57, 212–216, 2008.
- Bhagwant S, Human *Bertiella studeri* (Family Anoplocephalidae) infection of probable Southeast Asian origin in Mauretania

- children and an adult. *Am. J. Trop. Med. Hyg.* 70, 225–228, 2004.
- Clavel A et al., Diplogonoporiasis presumably introduced into Spain: first confirmed case of human infection acquired outside the Far East. *Am. J. Trop. Med. Hyg.* 57, 317–320, 1997.
- Chuck RS et al., Surgical removal of subretinal proliferating cysticercus of *Taenia crassiceps*. *Arch. Ophthalmol.* 115, 562–563, 1997.
- Fuentes MV, Galán-Puchades MT, Malone JB, A new case report of human *Mesocostoides* infection in the United States. *Am. J. Trop. Med. Hyg.* 68, 566–567, 2003.
- Garin YJF et al., Case report: human brain abscess due to a tetra-acetabulate plerocercoid metacystode (Cyclophyllidea). *Am. J. Trop. Med. Hyg.* 72, 513–517, 2005.
- Gonzalez Nunez I, Diaz Jidy M, Nunez Fernández F, Infection by *Inermicapsifer mada-gascariensis* (Davaine, 1870); Baer, 1956. A report of two cases. *Rev. Cubana Med.* Trop. 48, 224–226, 1996.
- Heldwein K et al., Subcutaneous *Taenia crassiceps* infection in a patient with Non-Hodgkin's Lymphoma. *Am. J. Trop. Med. Hyg.* 75, 108–111, 2006.
- Kino H et al., A mass occurrence of human infection with *Diplogonoporus grandis* (Cestoda: Diphylobothriidae) in Shizuoka Prefecture, central Japan. *Parasitol. Int.* 51, 73–79, 2002.
- Klinker H et al., *Taenia crassiceps*-Infektion bei AIDS. *Dtsch. Med. Wochenschr.* 117, 133–138, 1992.
- Maillard H et al., *Taenia crassiceps* cystocercosis and AIDS. *AIDS* 12, 1551–1552, 1998.
- Xin S et al., *Bertiella studeri* infection, China. *Emerg. Infect. Dis.* 12, 176–177, 2006.
- Diaz JH, Recognizing and reducing the risks of helminthic eosinophilic meningitis in travellers: differential diagnosis, disease management, prevention, and control. *J. Travel Med.* 16, 267–275, 2009.
- Hochberg NS, Park SY, Blackburn BG, Distribution of eosinophilic meningitis cases attributable to *Angiostrongylus cantonensis*, Hawaii. *Emerg. Infect. Dis.* 13, 1675–1680, 2007.
- Jin E et al., MRI findings of eosinophilic myelomeningoencephalitis due to *Angiostrongylus cantonensis*. *Clin. Radiol.* 60, 242–250, 2005.
- Jitpimolmard S et al., Albendazole therapy for eosinophilic meningitis caused by *Angiostrongylus cantonensis*. *Parasitol. Res.* 100, 1293–1296, 2007.
- Lai CH et al., Eosinophilic meningitis caused by *Angiostrongylus cantonensis* after ingestion of raw frogs. *Am. J. Trop. Med. Hyg.* 76, 399–402, 2007.
- Li H et al., A severe eosinophilic meningitis caused by infection of *Angiostrongylus cantonensis*. *Am. J. Trop. Med. Hyg.* 79, 568–570, 2008.
- Luessi F et al., Eosinophilic meningitis due to *Angiostrongylus cantonensis* in Germany. *J. Travel Med.* 16, 292–294, 2009.
- Luessi F et al., Eosinophilic meningitis due to *Angiostrongylus cantonensis* in Germany. *J. Travel Med.* 16, 292–294, 2009.
- Lv S et al., Emerging angiostrongyliasis in Mainland China. *Emerg. Infect. Dis.* 14, 161–164, 2008.
- Lv S et al., Helminth infections of the central nervous system occurring in Southeast Asia and the Far East. *Adv. Parasitol.* 72, 351–408, 2010.
- Sawanyawisuth K et al., Intraocular angiostrongyliasis: clinical findings, treatments and outcomes. *Trans. R. Soc. Trop. Med. Hyg.* 101, 497–501, 2007.
- Sawanyawisuth K, Sawanyawisuth K, Treatment of angiostrongyliasis. *Trans. R. Soc. Trop. Med. Hyg.* 102, 990–996, 2008.
- Tsai HC et al., Outbreak of eosinophilic meningitis associated with drinking of raw vegetable juice in southern Taiwan. *Am. J. Trop. Med. Hyg.* 71, 222–226, 2004.
- Wang QP et al., Human angiostrongyliasis. *Lancet Infect. Dis.* 8, 621–630, 2008.
- Wang J et al., An outbreak of angiostrongyliasis cantonensis in Beijing. *J. Parasitol.* 96, 377–381, 2010.

4.5 Durch Nematoden verursachte Erkrankungen

4.5.1.1 Zerebrale Angiostrongylose

- Bärtschi E et al., Eosinophilic meningitis due to *Angiostrongylus cantonensis* in Switzerland. *Infection* 32, 116–118, 2004.
- Chotmongkol V et al., Comparison of prednisolone plus albendazole with prednisolone alone for treatment of patients with eosinophilic meningitis. *Am. J. Trop. Med. Hyg.* 81, 443–445, 2009.

4.5.1.2 Intestinale Angiostrongylose

- Eamsobhana P et al., Molecular differentiation and phylogenetic relationships of three *Angiostrongylus* species and *Angiostrongylus cantonensis* geographical isolates based on a 66-kDa protein gene of *A. cantonensis* (Nematoda: Angiostrongylidae). *Exp. Parasitol.* 126, 564–569, 2010.
- Graeff-Teixeira C, Expansion of *Achatina fulica* in Brasil and potential increased risk for angiostrongyliasis. *Trans. R. Soc. Trop. Med. Hyg.* 101, 743–744, 2007.
- Graeff-Teixeira C, Camilla-Coura L, Lenzi HL, Histopathological criteria for the diagnosis of intestinal angiostrongyliasis. *Parasitol. Res.* 77, 606–611, 1991.
- Graeff-Teixeira C et al., Longitudinal clinical and serological survey of abdominal angiostrongyliasis in Guaporé, southern Brazil, from 1955–1999. *Rev. Soc. Bras. Med. Trop.* 38, 310–315, 2005.
- Mentz MB, Graeff-Teixeira C, Garrido CT, Treatment of mebendazole is not associated with distal migration of adult *Angiostrongylus costaricensis* in the murine experimental infection. *Rev. Inst. Med. Trop. Sao Paulo* 46, 73–75, 2004.
- Miller CL et al., Endemic infections of *Parastongylus* (= *Angiostrongylus*) *costaricensis* in two species of nonhuman primates, raccoons, and an opossum from Miami, Florida. *J. Parasitol* 92, 406–408, 2006.
- Palominos PE et al., Individual serological follow-up, of patients with suspected or confirmed abdominal angiostrongyliasis. *Mem. Inst. Oswaldo Cruz* 103, 93–97, 2008.
- Rodriguez R et al., Abdominal angiostrongyliasis: report of two cases with different clinical presentations. *Rev. Inst. Med. Trop. Sao Paulo* 50, 539–541, 2008.
- 4.5.2 Anisakiose**
- Anadón AM et al., The *Anisakis simplex* Ani s 7 major allergen as an indicator of true *Anisakis* infections. *Clin. Exp. Immunol.* 156, 471–478, 2009.
- Armantia A et al., *Anisakis* allergy after eating chgicken meat. *J. Investig. Allergol. Clin. Immunol.* 16, 258–263, 2006.
- Audicana MT, Kennedy MW, *Anisakis simplex*: from obscure infectious worm to inducer of immune hypersensitivity. *Clin. Microbiol. Rev.* 21, 360–379, 2008.
- Auer H et al., Epidemiologie und Nosologie der Anisakiose, einer in Mitteleuropa selten diagnostizierten Helminthozoonose – zwei Fallberichte. *Wien. Klein. Wochenschr.* 119 (Suppl. 3), 106–109, 2007.
- Choi SJ et al., The clinical characteristics of *Anisakis* allergy in Korea. *Korean J. Intren. Med.* 24, 160–163, 2009.
- Daschner A et al., Gastroallergic anisakiasis: borderline between food allergy and parasitic disease – clinical and allergologic evaluation of 20 patients with confirmed acute parasitism by *Anisakis simplex*. *J. Allergy Clin. Immunol.* 105, 176–181, 2000.
- Daschner A, Pascual CY, *Anisakis simplex*: sensitization and clinical allergy. *Curr. Opin. Allergy Clin. Immunol.* 5, 281–285, 2005.
- Del Rey Moreno A et al., Sensitization to *Anisakis simplex* s.l. in a healthy population. *Acta Trop.* 97, 265–269, 2006.
- Gonzalez-Muboz M, Rodriguez-Mahillo AI, Moneo I, Different Th1/Th2 responses to *Anisakis simplex* are related to distinct clinical manifestations in sensitized patient. *Parasite Immunol.* 32, 67–73, 2010.
- Kapral C et al., *Anisakis* – der erste in Österreich akquirierte Fall einer seltenen Helminthozoonose. *Z. Gastroenterol.* 47, 1059–1061, 2009.
- Lock G, Ehresmann J, Jöntvedt E, Schwere segmentale Kolitis durch eine *Anisakis*. *Dtsch. Med. Wochenschr.* 133, 1779–1782, 2008.
- Rello FJ et al., The fishing area as a possible indicator of the infection by *Anisakis* in anchovies (*Engraulis encrasicolus*) from southwestern Europe. *Int. J. Food Microbiol.* 129, 277–281, 2009.
- Rodriguez-Mahillo AI et al., Quantification of *Anisakis simplex* allergens in fresh, long-term frozen, and cooked fish muscle. *Foodborne Pathog. Dis.* 7, 967–973, 2010.
- Shih HH, Ku CC, Wang CS, *Anisakis simplex* (Nematoda: Anisakidae) third-stage larval infections in marine cage cultured cobia, *Rachycentron canadum* L., in Taiwan. *Vet. Parasitol.* 171, 277–285, 2010.
- Suzuki J et al., Risk factors for human *Anisakis* infection and association between the geographic origins of *Scomber japonicus* and *Anisakis* nematodes. *Int. J. Food Microbiol.* 137, 88–93, 2010.
- Vidacek S et al., Antigenicity and viability of *Anisakis* larvae infesting hake heated at

different time-temperature conditions. *J. Food. Prot.* 73, 662–68, 2010.

4.5.3.1 Darmcapillariose

Ahmed L et al., *Capillaria philippinensis*: an emerging parasite causing severe diarrhoea in Egypt. *J. Egypt. Soc. Parasitol.* 29, 483–493, 1999.

Bair MJ et al., Clinical features of human intestinal capillariasis in Taiwan. *World J. Gastroenterol.* 10, 2391–2393, 2004.

Cross JH, Intestinal capillariasis. *Clin. Microbiol. Rev.* 5, 120–129, 1992.

Cross JH, Basaca-Sevilla V, Experimental transmission of *Capillaria philippinensis* to birds. *Trans. R. Soc. Trop. Med. Hyg.* 77, 511–514, 1983.

El-Dib NA et al., Evaluation of *Capillaria philippinensis* coproantigen in the diagnosis of infection. *J. Egypt. Soc. Parasitol.* 34, 97–106, 2004.

El-Karakasy H et al., *Capillaria philippinensis*: a cause of fatal diarrhea in one of two infected Egyptian sisters. *J. Trop. Pediatr.* 50, 57–60, 2004.

Lu LH et al., Human intestinal capillariasis (*Capillaria philippinensis*) in Taiwan. *Am. J. Trop. Med. Hyg.* 74, 810–813, 2006.

Saichua P, Nithikathkul C, Kaewpittoon N, Human intestinal capillariasis in Thailand. *World J. Gastroenterol.* 28, 506–510, 2008.

4.5.3.2 Lebercapillariose

Camargo LM et al., Capillariasis (*Trichurida*, *Trichinellidae*, *Capillaria hepatica*) in the Brazilian Amazon: low pathogenicity, low infectivity and a novel mode of transmission. *Parasit Vectors* 26, 3–17, 2010.

Klenzak J et al., Hepatic capillariasis in Maine presenting as a hepatic mass. *Am. J. Trop. Med. Hyg.* 72, 651–653, 2005.

Li CD, Yang HL, Wang Y, *Capillaria hepatica* in China. *World J. Gastroenterol.* 16, 698–702, 2010.

Nabi F et al., *Capillaria hepatica* infestation. *Indian Pediatr.* 44, 781–782, 2007.

Pereira VG, Mattosinho Franca LC, Successful treatment of *Capillaria hepatica* infection in an acutely ill adult. *Am. J. Trop. Med. Hyg.* 32, 1272–1274, 1983.

Sawamura R et al., Hepatic capillariasis in children: report of three cases in Brazil. *Am. J. Trop. Med. Hyg.* 61, 642–647, 1999.

Tesana S, Puapairoj A, Saeseow O, Granulomatous, hepatolithiasis and hepatomegaly caused by *Capillaria hepatica* infection: first case report of Thailand. *Southeast Asian J. Trop. Med. Public Health* 38, 636–640, 2007.

4.5.3.3 Lungencapillariose

Lalosevic D et al., Pulmonary capillariasis mimicking bronchial carcinoma. *Am. J. Trop. Med. Hyg.* 78, 14–16, 2008.

Traversa D, Di Cesare A, Conboy G, Canine and feline cardiopulmonary parasitic nematodes in Europe. emerging and underestimated. *Parasites & Vectors* 3, 62, 2010.

Traversa D et al., Infection by *Eucoleus aerophilus* in dogs and cats: is another extraintestinal parasitic nematode of pets emerging in Italy? *Res. Vet. Sci.* 87, 270–272, 2009.

Villela JM, Desmaret MC, Rouault R, Capillariose à *Capillaria aerophila* chez un adulte? *Méd. Malad. Infect.* 1, 35–36, 1986.

4.5.4 Diactophymose

Narváez JA, Turell LP, Serra J, Hyperdense renal cystic lesions caused by *Diactophyma renale*. *AJR Am. J. Roentgenol* 163, 997–998, 1994.

Vladimova MG et al., Ein Fall von Diactophymose (*Diactophyme renale*) in einem Mädchen aus Archangelsk (Artikel in Russisch). *Med. Parazitol. (Mosk)*, 48–50, 2002.

4.5.5 Dracunculose

Anonymous, Progress toward global eradication of dracunculiasis, January 2009 – June 2010. *MMWR Morb. Mortal. Wkly. Rep.* 59, 1239–1242, 2010.

Bimi L et al., Differentiating *Dracunculus medinensis* from *D. insignis*, by the sequence analysis of the 18S rRNA gene. *Ann. Trop. Med. Parasitol.* 99, 511–517, 2005.

Hours M, Cairncross S, Long-term disability due to guinea worm disease. *Trans. R. Soc. Trop. Med. Hyg.* 88, 559–560, 1994.

Kaul SM et al., Outbreak of dracunculiasis in the Bhiwandi town of Maharashtra: a report. *J. Commun. Dis.* 23, 22–28, 1992.

Muller R, Guinea worm disease – the final chapter? *Trends Parasitol.* 21, 521–524, 2005.

Sankar V et al., Dracunculiasis in a South Indian Bonnet monkey. *Primates* 41, 89–92, 2000.

4.5.6 Eosinophile Enteritis

Alamo Martinez JM et al., Intestinal obstruction by eosinophilic jejunitis. *Rev. Esp. Enferm. Dig.* 96, 279–283, 2004.

Bowman DD et al., Hookworms of dogs and cats as agents of cutaneous larva migrans. *Trends Parasitol.* 26, 162–167, 2010.

Landman JK, Prociw P, Experimental human infection with the dog hookworm, *Ancylostoma caninum*. *Med. J. Aust.* 20, 69–71, 2003.

4.5.7 Filariose

Bain O et al., Human intraocular filariasis caused by *Pelecitus* sp. nematode, Brazil. *Emerg. Infect. Dis.* 17, 867–869, 2011.

Baird JK, Neafie RC, South American brugian filariasis: a report of a human infection acquired in Peru. *Am. J. Trop. Med. Hyg.* 39, 185–188, 1988.

Dissanaike AS et al., Recovery of a species of *Brugia*, probably *B. ceylonensis*, from the conjunctiva of a patient in Sri Lanka. *Ann. Trop. Med. Parasitol.* 94, 83–86, 2000.

Hira PR et al., Zoonotic filariasis in the Arabian Peninsula: autochthonous onchocerciasis and dirofilariasis. *Am. J. Trop. Med. Hyg.* 79, 739–741, 2008.

Koehsler M et al., *Onchocerca jakutensis* filariasis in humans. *Emerg. Infect. Dis.* 13, 1749–1752, 2007.

Ngure RM et al., Biochemical changes in cerebrospinal fluid of *Chlorocebus aethiops* naturally infected with zoonotic *Meninogonema peruzzii*. *J. Med. Primatol.* 37, 210–214, 2008.

Pampiglione S et al., Subconjunctival zoonotic *Onchocerca* in an Albanian man. *Ann. Trop. Med. Parasitol.* 95, 827–832, 2001.

Sallo F et al., Zoonotic intravitreal *Onchocerca* in Hungary. *Ophthalmology* 112, 502–504, 2005.

Schlesinger JJ, Dubois JG, Beaver PC, Brugia-like filarial infections acquired in the United States. *Am. J. Trop. Med. Hyg.* 26, 204–207, 1977.

Sréter T, Széll Z, Onchocerciasis: A newly recognized disease in dogs. *Vet. Parasitol.* 151, 1–13, 2008.

Sréter T et al., Subconjunctival zoonotic onchocerciasis in man: aberrant infection with *Onchocerca lupi*? *Ann. Trop. Med. Parasitol.* 96, 497–502, 2002.

Takaoka H et al., An *Onchocerca* species of wild boar found in the subcutaneous nodule of a resident of Oita, Japan. *Parasitol. Int.* 54, 91–93, 2005.

Takaoka H et al., Human infection with *Onchocerca dewittei japonica*, a parasite from wild boar in Oita, Japan. *Parasitol. Int.* 54, 261–263, 2001.

Tan LH et al., Zoonotic *Brugia pahangi* filariasis in a suburbia of Kuala Lumpur City, Malaysia. *Parasitol. Int.* 60, 111–113, 2011.

Uni S et al., Zoonotic filariasis caused by *Onchocerca dewittei japonica* in a resident of Hiroshima, Honshu, Japan. *Parasitol. Int.* 59, 477–480, 2010.

Vijayan VK, Tropical pulmonary eosinophilia: pathogenesis, diagnosis and management. *Curr. Opin. Pulm. Med.* 13, 428–433, 2007.

Sréter T, Széll Z, Onchocerciasis: A newly recognized disease in dogs. *Vet. Parasitol.* 151, 1–13, 2008.

4.5.7.1 Brugia-Filariose

Adjobimey T, Hoerauf A, Induction of immunoglobulin G4 in human filariasis: an indicator of immunoregulation. *Ann. Trop. Med. Parasitol.* 104, 455–464, 2010.

Bockarie MJ et al., Role of vector control in the global programme to eliminate lymphatic filariasis. *Annu. Rev. Entomol.* 54, 469–487, 2009.

Fischer P et al., Detection of filaria-specific IgG4 antibodies and filarial DNA, for the screening of blood spots for *Brugia timori*. *Ann. Trop. Med. Parasitol.* 99, 53–60, 2005.

Freedman DO, Immune dynamics in the pathogenesis of human lymphatic filariasis. *Parasitol. Today* 14, 229–234, 1998.

Hoerauf A, Filariasis: new drugs and new opportunities for lymphatic filariasis and onchocerciasis. *Curr. Opin. Infect. Dis.* 21, 673–681, 2008.

Huppatz C et al., Lessons from the Pacific programme to eliminate lymphatic filariasis: a case study of 5 countries. *BMC Infect. Dis.* 9, 92, 2009.

Lalitha P et al., Development of antigen detection ELISA for the diagnosis of brugian

- and bancroftian filariasis using antibodies to recombinant filarial antigens Bm-SXP-1 and Wb-SXP-1. *Microbiol. Immunol.* 46, 327–332, 2002.
- Michael E et al., Global eradication of lymphatic filariasis: the value of chronic disease control in parasite elimination programme. *PLoS One* 13; 3: e2936, 2008.
- Nuchprayoon S, DNA-based diagnosis of lymphatic filariasis. *Southeast Asian J. Trop. Med. Public Health* 40, 904–913, 2009.
- Ottesen EA, Lymphatic filariasis: treatment, control and elimination. *Adv. Parasitol.* 61, 395–441, 2006.
- Partono F, The spectrum of disease in lymphatic filariasis. *Ciba Found. Symp.* 127, 15–31, 1987.
- Pfarr KM et al., Filariasis and lymphoedema. *Parasite Immunol.* 31, 664–672, 2009.
- Rajan TV, Natural course of lymphatic filariasis: insights from epidemiology, experimental human infections, and clinical observations. *Am. J. Trop. Med. Hyg* 73, 995–998, 2005.
- Rao RU et al., Detection of *Brugia* parasite DNA in human blood by real-time PCR. *J. Clin. Microbiol.* 44, 3887–3893, 2006.
- Shenoy RK et al., Doppler ultrasonography reveals adult-worm nests in lymph vessels of children with brugian filariasis. *Ann. Trop. Med. Parasitol.* 101, 173–180, 2007.
- Simons JE, Gray CA, Lawrence RA, Absence of regulatory IL-10 enhances innate protection against filarial parasites by neutrophil-independent mechanism. *Parasite Immunol.* 32, 473–478, 2010.
- Supali T et al., Detection of filaria-specific IgG4 antibodies using *Brugia* Rapid test in individuals from an area highly endemic for *Brugia timori*. *Acta Trop.* 90, 255–261, 2004.
- Taylor MJ, Wolbachia in the inflammatory pathogenesis of human filariasis. *Ann. N. Y. Acad. Sci* 990, 444–449, 2003.
- Wattal S et al., Evaluation of Og4C3 antigen ELISA as a tool for the detection of bancroftian filariasis under lymphatic filariasis elimination programme. *J. Commun. Dis.* 39, 75–84, 2007.
- Weil GJ, Ramzy RMR, Diagnostic tools for filariasis elimination programs. *Trends Parasitol.* 23, 78–82, 2006.
- 4.5.7.2 Dirofilariose**
- Angeli L et al., Human dirofilariasis: 10 new cases in Piedmont, Itali. *Int. J. Dermatol.* 46, 844–847, 2007.
- Fodor E et al., Recently recognized cases of ophthalmofilariasis in Hungary. *Eur. J. Ophthalmol.* 19, 675–678, 2009.
- Genchi C et al., Climate and *Dirofilaria* infection in Europe. *Vet. Parasit.* 163, 286–292, 2009.
- Hasler S et al., Swiss patient with a subconjunctival *Dirofilaria repens*. *Klin Monbl. Augenheilkd.* 227, 332–333, 2010.
- Hira PR et al., Zoonotic filariasis in the Arabian Peninsula: autochthonous onchocerciasis and dirofilariasis. *Am. J. Trop. Med. Hyg.* 79, 739–741, 2008.
- Kramer LH et al., Human subcutaneous dirofilariasis, Russia. *Emerg. Infect. Dis.* 13, 150–152, 2007.
- Lee ACY et al., Public health issues concerning the widespread distribution of canine heartworm disease. *Trends Parasitol* 26, 168–173, 2010.
- McCall JW et al., Heartworm disease in animals and humans. *Adv. Parasitol* 66, 193–285, 2008.
- Miliaras D et al., Human pulmonary dirofilariasis: one more case in Greece suggests that *Dirofilaria* is a rather common cause of coin lesions inn the lungs in endemic areas of Euope. *Int. J. Immunopathol. Pharmacol.* 23, 345–348, 2010.
- Morchón R et al., Zoonotic *Dirofilaria immitis* infections in a province of Northern Spain. *Epidemiol. Infect.* 138, 380–383, 2010.
- Poppert S et al., *Dirofilaria repens* infection and concomitant meningoencephalitis. *Emerg. Infect. Dis.* 15, 1844–1846, 2009.
- Simon F et al., What is new about animal and human dirofilariosis? *Trends Parasitol.* 25, 404–409, 2009.
- Szénási Z et al., Human dirofilariasis in Hungary: an emerging zoonosis in central Europe. *Wien. Klin. Wochenschr.* 120, 96–102, 2008.
- 4.5.8 Gnathostomose**
- Alvarez-Guerrero C et al., *Gnathostoma binucleatum*: pathological and parasitological aspects in experimentally infected dogs. *Exp. Parasitol.* 127, 84–89, 2011.
- Anataphruti MT Nuamtanong S, Dekumyoy P, Diagnostic values of IgG4 in human gna-

- thostomiasis: *Trop. Med. Int. Health* 10, 1013–1021, 2005.
- Bhattacharjee H, Das D, Medhi J, Intravitreal gnathostomiasis and review of the literature. *Retina* 27, 67–73, 2007.
- Bhende M, Biswas J, Gopal L, Ultrasound biomicroscopy in the diagnosis and management of intraocular gnathostomiasis. *A. J. Ophthalmol.* 140, 140–142, 2005.
- Bussaratid V et al., Efficacy of ivermectin treatment of cutaneous gnathostomiasis evaluated by placebo-controlled trial. *Southeast Asian J. Trop. Med. Public Health* 37, 433–440, 2006.
- Diaz-Camacho SP et al., Acute outbreak of gnathostomiasis in a fishing community in Sinaloa, Mexico. *Parasit. Int.* 52, 133–140, 2003.
- García-Márquez LJ et al., Morphological and molecular identification of *Gnathostoma binucleatum* (Nematoda: Gnathostomidae) advanced third stage larvae (AdvL3) in the state of Colima, Mexico. *Rev. Mex. Biodiversidad* 80, 867–870, 2009.
- Herman JS, Chiodini PL, Gnathostomiasis, another emerging imported disease. *Clin. Microbiol. Rev.* 22, 484–492, 2009
- Herman JS et al., Gnathostomiasis acquired by British tourists in Botswana. *Emerg. Infect. Dis.* 15, 594–597, 2009.
- Magana M et al., Gnathostomiasis: clinicopathologic study. *Am. J. Dermatopathol.* 26, 91–95, 2004.
- Müller-Stöver I, Richter J, Häussinger D, Infektion mit *Gnathostoma spinigerum* als Ursache einer eosinophilen Ösophagitis. *Dtsch. Med. Wochenschr.* 129, 1973–1975, 2004.
- Nontasut P et al., Double-dose ivermectin vs albendazole for the treatment of gnathostomiasis. *Southeast Asian J. Trop. Med. Public Health* 36, 650–652, 2005.
- Rojekittikhun W, Waikagul J, Chaiyasith T, Fish as the natural second intermediate-host of *Gnathostoma spinigerum*. *Southeast Asian J. Trop. Med. Public Health* 33, suppl. 3, 63–69, 2002.
- Sawanyawisuth K et al., MR imaging findings in cauda equine gnathostomiasis. *AJNR Am. J. Neuroradiol.* 26, 39–42, 2005.
- Sieu TM et al., Comparison of Vietnamese cultured and wild swamp eels for infection with *Gnathostoma spinigerum*. *J. Parasitol.* 95, 246–248, 2009.
- Strady C et al., Long-term follow-up of imported gnathostomiasis shows frequent treatment failure. *Am. J. Trop. Med. Hyg.* 80, 33–35, 2009.
- Vonghachack Y et al., Sero-epidemiological survey of gnathostomiasis in Lao PDR. *Parasitol. Int.* 59, 599–605, 2010.

4.5.9 Gongylonemose

- Molavi GH, Massoud J, Gutierrez Y, Human *Gongylonema* infection in Iran. *J. Helminthol.* 80, 425–428, 2006.
- Pasuralertsakul S, Yaicharoen R, Sriphochang S, Spurious human infection with *Gongylonema*: nine cases reported from Thailand. *Ann. Trop. Med. Parasitol.* 102, 455–457, 2008.
- Urch T et al., Humane Infektion mit *Gongylonema pulchrum*. *Dtsch. Med. Wochenschr.* 130, 2566–2568, 2005.

4.5.10 Lagochilascarose

- Aquino RTR et al., Lagochilascariasis leading to severe involvement of ocular globes, ears and meninges. *Rev. Inst. Med. Trop. Sao Paulo* 50, 355–358, 2008.
- Campos DM et al., Experimental life cycle of *Lagochilascaris minor* Leiper, 1909. *Rev. Inst. Med. Trop. Sao Paulo* 34, 277–287, 1998.
- De Freitas JG et al., *Lagochilascaris minor*: experimental infection of C57BL/6 and BALB7c isogenic mice reveals the presence of adult worms. *Exp. Parasitol.* 119, 325–331, 2008.
- Roig JL et al., Otomastoiditis with right retroauricular fistula by *Lagochilascaris minor*. *Braz. J. Otorhinolaryngol.* 76, 407, 2010.

4.5.11 Larva migrans cutanea

- Archer M, Late presentation of cutaneous larva migrans: a case report. *Cases J.* 12, 7553, 2009.
- Bowman DD et al., Hookworms of dogs and cats as agents of cutaneous larva migrans. *Trends Parasitol.* 26, 162–167, 2010.
- Heukelbach J, Feldmeier H, Epidemiological and clinical characteristics of hookworm-related cutaneous larva migrans. *Lancet Infect. Dis.* 8, 302–309, 2008.
- Jensenius M, Maeland A, Brubakk O, Extensive hookworm-related cutaneous larva migrans in Norwegian travellers to the tropics. *Travel Med. Infect. Dis.* 6, 45–47, 2008.

- Müller-Stöver I, Richter J, Häussinger D, In Deutschland erworbene Larva migrans cutanea. Dtsch. Med. Wochenschr. 135, 859–861, 2010.
- O'Connell E, Outbreak of cutaneous larva migrans at a children's camp – Miami, Florida, 2006. MMWR Morb. Mortal. Wkly Rep. 56, 1285–1287, 2007.
- Rivera-Roig V, Sánchez JL, Hillyer GV, Hookworm folliculitis. Int. J. Dermatol. 47, 246–248, 2008.
- Senba Y et al., Case of creeping disease treated with ivermectin. J. Dermatol. 36, 86–89, 2009.
- Siriez JY et al., Individual variability of the cutaneous larva migrans (CLM) incubation period. Pediatr. Dermatol. 27, 211–212, 2010.
- Tamminga N, Bierman WF, de Vries PJ, Cutaneous larva migrans acquired in Brittany, France. Emerg. Infect. Dis. 15, 1856–1858, 2009.
- Tan SK, Liu TT, Cutaneous larva migrans complicated by Löffler syndrome. Arch. Dermatol. 146, 210–212, 2010.
- Te Booij M, de Jong E, Bovenschen HJ, Löffler syndrome caused by extensive cutaneous larva migrans: a case report and review of the literature. Dermatol. Online J. 16, 2, 2010.
- 4.5.12 Larva migrans visceralis**
- Aydenizöz-Ozkayhan M, Yagci BB, Erat S, The investigation of *Toxocara canis* eggs in coats of different dog breeds as a potential transmission route in human toxocarosis. Vet. Parasitol. 152, 94–100, 2008.
- Bächli H, Minet JC, Gratzl O, Cerebral toxocarosis: possible cause of epileptic seizure in children. Childs Nerv. Syst. 20, 468–472, 2004.
- Bauer C, Baylisascariose (*Baylisascaris procyonis*) – eine seltene parasitäre Zoonose in Europa. Berl. Münch. Tierärztl. Wochenschr. 124, 465–472, 2011.
- Bauer C, Gey A, Efficacy of six anthelmintics against luminal stages of *Baylisascaris procyonis* in naturally infected raccoons (*Procyon lotor*). Vet. Parasitol. 60, 155–159, 1995.
- Dangoudoubiyam S, Kazacos KR, Differentiation of larva migrans caused by *Baylisascaris procyonis* and *Toxocara* species by Western blotting. Clin. Vaccine Immunol. 16, 1563–1568, 2009.
- Eberhardt O et al., Eosinophilic meningomyelitis in toxocarosis: case report and review of the literature. Clin. Neurol. Neurosurg. 107, 432–438, 2004.
- Fisher M, *Toxocara cati*: an underestimated zoonotic agent. Trends Parasitol. 19, 167–170, 2003.
- Gavignet B et al., Cutaneous manifestations of human toxocarosis. J. Am. Acad. Dermatol. 59, 1031–1042, 2008.
- Gavin PJ, Kazacos KR, Shulman ST, Baylisascariosis. Clin. Microbiol. Rev. 18, 703–718, 2005.
- Good B et al., Ocular toxocarosis in schoolchildren. Clin. Infect. Dis. 39, 173–178, 2004.
- Hoffmeister B et al., Cerebral toxocarosis after consumption of raw duck liver. Am. J. Trop. Med. Hyg. 76, 600–602, 2007.
- Hotez PJ, Wilkins PP, Toxocarosis: America's most common neglected infection of poverty and a helminthiasis of global importance. PLoS Negl. Trop. Dis. 3, e400, 2009.
- Küchle M et al., Diffuse unilateral subacute neuroretinitis syndrome in a German most likely caused by the raccoon roundworm, *Baylisascaris procyonis*. Graefes Arch. Clin. Exp. Ophthalmol. 231, 48–51, 1993.
- Kustimur S et al., *Toxocara* prevalence in adults with bronchial asthma. Trans. R. Soc. Trop. Med. Hyg. 101, 270–274, 2007.
- Lee AC et al., Epidemiologic and zoonotic aspects of ascarid infections in dogs and cats. Trends Parasitol. 26, 155–161, 2010.
- Nakamura-Uchiyama F et al., A case of *Ascaris suum* visceral larva migrans diagnosed by using *A. suum* larval excretory-secretory (ES) antigen. Scand. J. Infect. Dis. 38, 221–224, 2006.
- Okada F et al., Pulmonary computed tomography findings of visceral larva migrans caused by *Ascaris suum*. J. Comput. Assist. Tomogr. 31, 402–408, 2007.
- Page LK et al., Backyard raccoon latrines and risk for *Baylisascaris procyonis* transmission to humans. Emerg. Infect. Dis. 15, 1530–1531, 2009.
- Pai PJ et al., Full recovery from *Baylisascaris procyonis* eosinophilic meningitis. Emerg. Infect. Dis. 13, 928–930, 2007.
- Roddie G et al., Contamination of dog hair with eggs of *Toxocara canis*. Vet. Parasitol. 152, 85–93, 2008.

- Rodman J, Pizzimenti J, In vivo diagnostic imaging of ocular toxocariasis. *Clin. Exp. Optom.* 92, 146–149, 2009.
- Rubinsky-Elefant G et al., Human toxocariasis: diagnosis, worldwide seroprevalences and clinical expression of the systemic and ocular forms. *Ann. Trop. Med. Parasitol.* 104, 3–23, 2010.
- Salvador S et al., Pediatric neurotoxocariasis with concomitant cerebral, cerebellar, and peripheral nervous system involvement: case report and review of the literature. *J. Pediatr.* 86, 531–534, 2010.
- Smiths H et al., How common is human toxocariasis? Towards standardizing our knowledge. *Trends Parasitol.* 25, 182–188, 2009.
- Stensvold CR et al., Seroprevalence of human toxocariasis in Denmark. *Clin. Vaccine Immunol.* 16, 1372–1373, 2009.
- Stewart JM, Cubillan LD, Cunningham Jr ET, Prevalence, clinical features, and causes of vision loss among patients with ocular toxocariasis. *Retina* 25, 1005–1013, 2005.
- Uga S, Minami T, Nagata K, Defecation habits of cats and dogs and contamination by *Toxocara* eggs in public sandpits. *Am. J. Trop. Med. Hyg.* 54, 122–126, 1996.
- 4.5.13 Oesophagostomose**
- Gasser RB, de Gruijter JD, Polderman AM, Insights into the epidemiology and genetic make-up of *Oesophagostomum bifurcum* from human, and non-human primates using molecular tools. *Parasitology* 132, 453–460, 2006.
- Krief S et al., Nodular worm infection in wild chimpanzees in western Uganda: a risk for human health? *PLoS Negl. Trop. Dis.* 4, e630, 2010.
- Polderman AM et al., The rise and fall of human oesophagostomiasis. *Adv. Parasitol.* 71, 93–155, 2010.
- Van Lieshout L et al., *Oesophagostomum bifurcum* in non-human primates is not a potential reservoir for human infection in Ghana. *Trop. Med. Int. Health* 10, 1315–1320, 2005.
- Ziem JB et al., Impact of repeated mass treatment on human *Oesophagostomum* and hookworm infections in northern Ghana. *Trop. Med. Int. Health* 11, 1764–1772, 2006.
- Ziem JB et al., *Oesophagostomum bifurcum*-induced nodular pathology in a highly endemic area of northern Ghana. *Trans. R. Soc. Trop. Med. Hyg.* 99, 417–422, 2005.
- 4.5.14 Strongyloidose**
- Abrescia FF, Falda A, Caramaschi G et al., Re-emergence of strongyloidiasis, northern Italy. *Emerg. Infect. Dis.* 15, 1531–1533, 2009.
- Agrawal V, Agarwal T, Goshal UC, Intestinal strongyloidiasis: a diagnosis frequently missed in the tropics. *Trans. R. Soc. Trop. Med. Hyg.* 103, 242–246, 2009.
- Ashford RW, Barnish G, Viney ME, *Strongyloides fuelleborni* kellyi: infection and disease in Papua New Guinea. *Parasitol. Today* 6, 314–318, 1992.
- Brügemann J et al., Two donor-related infections in a heart transplant recipient: one common, the other a tropical surprise. *J. Heart Lung Transplant.* 29, 1433–1437, 2010.
- Einsiedel L, Fernandes L, *Strongyloides stercoralis*: a cause of morbidity and mortality for indigenous people in Central Australia. *Intern. Med. J.* 38, 697–703, 2008.
- Dillard KJ, Saari SA, Anttila M, *Strongyloides stercoralis* infection in a Finnish kennel. *Acta Vet. Scand.* 49, 37, 2007.
- Evans AC et al., Bushman children infected with the nematode *Strongyloides fuelleborni*. *S. Afr. Med. J.* 80, 410–411, 1991.
- Gill GV et al., Chronic *Strongyloides stercoralis* infection in former British Far East prisoners of war. *QJM* 97, 789–795, 2004.
- González A et al., Clinical and epidemiological features of 33 imported *Strongyloides stercoralis* infections. *Trans. R. Soc. Trop. Med. Hyg.* 104, 613–616, 2010.
- Goncalves AL et al., Evaluation of strongyloidiasis in kennel dogs and keepers by parasitological and serological assays. *Vet. Parasitol.* 147, 132–139, 2007.
- Hirata T et al., Increased detection rate of *Strongyloides stercoralis* by repeated stool examinations using the agar plate culture method. *Am. J. Trop. Med. Hyg.* 77, 683–684, 2007.
- Hira PR, Patel BG, Human strongyloidiasis due to the primate species *Strongyloides fuelleborni*. *Trop. Geogr. Med.* 32, 23–29, 1980.
- Lichtenberger P et al., Hyperinfection strongyloidiasis in liver transplant recipient treat-

- ted with parenteral ivermectin. *Transpl. Infect. Dis.* 11, 137–142, 2009.
- Marcos LA et al., Strongyloides hyperinfection syndrome: an emerging infectious disease. *Trans. R. Soc. Trop. Med. Hyg.* 102, 314–318, 2008.
- Montes M, Shawhney C, Barros N, Strongyloides stercoralis: there but not seen. *Curr. Opin. Infect. Dis.* 23, 500–504, 2010.
- Olsen A et al., Strongyloidiasis – the most neglected of the tropical neglected diseases. *Trans. R. Soc. Trop. Med. Hyg.* 103, 967–972, 2009.
- Roxby AC, Gottlieb GS, Limaye AP, Strongyloidiasis in transplant patients. *Clin. Infect. Dis.* 49, 1411–1423, 2009.
- Vaiyavatjamai P et al., Immunocompromised group differences in the presentation of intestinal strongyloidiasis. *Jpn. J. Infect. Dis.* 61, 5–8, 2008.
- 4.5.15 Syngamose**
- Castano JC et al., First report of *Mammomonogamus (Syngamus) laryngeus* human infection in Colombia. *Biomedica* 26, 337–341, 2006.
- Eamsobhana P et al., *Mammomonogamus* roundworm (Nematoda: Syngamidae) recovered from the duodenum of a Thai patient: a first and unusual case originating from Thailand. *Trans. R. Soc. Trop. Med. Hyg.* 100, 387–391, 2006.
- Fiotová I et al., Presence and species identification of the gapeworm *Mammomonogamus laryngeus* (Railliet, 1899) (Syngamidae: Nematoda) in a semi-wild population of Sumatran orangutan (*Pongo abelii*) in Indonesia. *Res. Vet. Sci.* 84, 232–236, 2008.
- Marques SM, Quadros RM, Pilati C, *Mammomonogamus laryngeus* (Railliet, 1899) infection in buffalos in Rio Grande do Sul, Brazil. *Vet. Parasitol.* 130, 241–243, 2005.
- Turner P et al., A case of human syngamiasis. *Travel Med. Infect. Dis.* 1, 231–233, 2003.
- Van Aken D et al., *Mammomonogamus laryngeus* (Railliet, 1899) infections in cattle in Mindanao, Philippines. *Vet. Parasitol.* 64, 329–332, 1996.
- 4.5.16 Thelaziose**
- Dutto M, Thelaziose oculaire chez l'homme en Italie du Nord. *Bull. Soc. Pathol. Exot.* 101, 9–10, 2008.
- Kim HW et al., Intraocular infestation with *Thelazia callipaeda*. *Jpn. J. Ophthalmol.* 54, 370–372, 2010.
- Malacrida F et al., Emergence of canine ocular thelaziosis caused by *Thelazia callipaeda* in southern Switzerland. *Vet. Parasitol.* 157, 321–327, 2008.
- Otranto D, Dutto M, Human thelaziosis, Europe. *Emerg. Infect. Dis.* 14, 647–649, 2008.
- Shen J et al., Human thelaziosis – a neglected parasitic disease of the eye. *J. Parasitol.* 92, 872–875, 2006.
- Xue C, Tian N, Huang Z, *Thelazia callipaeda* in human vitreous. *Can. J. Ophthalmol.* 42, 884–885, 2007.
- Yagi T et al., Removal of *Thelazia callipaeda* from the subconjunctival space. *Eur. J. Ophthalmol.* 17, 266–268, 2007.
- 4.5.17 Trichinellose**
- Akar S et al., Frequency and severity of musculoskeletal symptoms in humans during an outbreak of trichinellosis caused by *Trichinella britovi*. *J. Parasitol.* 93, 341–344, 2007.
- Alban L et al., Towards a risk-based surveillance of *Trichinella* spp. in Danish pig production. *Prev. Vet. Med.* 87, 340–357, 2008.
- Blaga R et al., Animal *Trichinella* infection in Romania: geographical heterogeneity for the last 8 years. *Vet. Parasitol.* 159, 290–294, 2009.
- Cui J, Wang ZQ, Kennedy MW, The re-emergence of trichinellosis in China? *Trends Parasitol.* 22, 54–55, 2006.
- European Community, Regulation (EC) no. 2075/2005 of the European Parliament and of the Council of 5 December 2005 laying down specific rules on official control for *Trichinella* in meat. *Off. J. Eur. Commun.* 338, 60–82, 2005.
- Gajadhar AA et al., *Trichinella* diagnostics and control: mandatory and best practices for ensuring food safety. *Vet. Parasitol.* 159, 197–205, 2009.
- Gottstein B, Pozio E, Nöckler K, Epidemiology, diagnosis, treatment, and control of trichinellosis. *Clin. Microbiol. Rev.* 22, 127–145, 2009.
- Jansen A et al., Epidemiology of trichinellosis in Germany, 1996–2006. *Vector Borne Zoonotic Dis.* 8, 189–196, 2008.

- Kaewpitoon N et al., Trichinosis: epidemiology in Thailand. *World. J. Gastroenterol.* 12, 6440–6445, 2006.
- Kennedy ED et al., Trichinellosis surveillance – United States, 2002–2007. *MMWR Surveill. Summ.* 58, 1–7, 2009.
- Kusolsuk T et al., The second outbreak of trichinellosis caused by *Trichinella papuae* in Thailand. *Trans. R. Soc. Trop. Med. Hyg.* 104, 433–437, 2010.
- Lo YC et al., Human trichinosis after consumption of soft-shelled turtles, Taiwan. *Emerg. Infect. Dis.* 15, 2056–2058, 2009.
- Marucci G, Pezzotti P, Pozio E, Ring trial among National Reference Laboratories for parasites to detect *Trichinella spiralis* larvae in pork samples according to the EU directive 2075/2005. *Vet. Parasitol.* 159, 337–340, 2009.
- Moller LN et al., *Trichinella* infection in a hunting community in East Greenland. *Epidemiol. Infect.* 138, 1252–1256, 2010.
- Neghina R et al., Trichinellosis and poverty in a Romanian industrial area: an epidemiological study and brief review of literature. *Foodborne Pathog. Dis.* 7, 757–761, 2010.
- Pinelli E et al., Specific IgG4 response against the 45-kD glycoprotein in trichinellosis: a re-evaluation of patients 15 years after infection. *Eur. J. Clin. Microbiol. Infect. Dis.* 26, 641–645, 2007.
- Porto-Fett AC et al., Evaluation of fermentation, drying, and/or high pressure processing on viability of *Listeria monocytogenes*, *Escherichia coli* O157:H7, *Salmonella* spp., and *Trichinella spiralis* in raw pork and Genoa salami. *Int. J. Food Microbiol.* 140, 61–75, 2010.
- Pozio E, World distribution of *Trichinella* spp. infections in animals and humans. *Vet. Parasitol.* 149, 3–21, 2007.
- Pozio E et al., Molecular taxonomy, phylogeny and biography of nematodes belonging to the *Trichinella* genus. *Infect. Genet. Evol.* 9, 606–616, 2009.
- Pozio E et al., Hosts and habitats of *Trichinella spiralis* and *Trichinella brotivi* in Europe. *Int. J. Parasitol.* 39, 71–79, 2009.
- Ribicich M et al., Evaluation of the risk of transmission of *Trichinella* in pork production systems in Argentina. *Vet. Parasitol.* 159, 350–353, 2009.
- Ribicich M et al., Clinical, haematological, biochemical and economic impacts of *Trichinella spiralis* infection in pigs. *Vet. Parasitol.* 147, 265–270, 2007.
- Schuppers ME et al., A study to demonstrate freedom from *Trichinella* spp. in domestic pigs in Switzerland. *Zoonoses Public Health* 57 e 130-5. doi:10.1111/j.1863-2378.2009.01299.x., 2009.
- Takumi K et al., Transmission risk of human trichinellosis. *Vet. Parasitol.* 159, 324–327, 2009.
- Tint D et al., Cardiac involvement in trichinellosis: a case of left ventricular thrombosis. *Am. J. Trop. Med. Hyg.* 81, 313–316, 2009.
- Turk M et al., Clinical and laboratory aspects of a trichinellosis outbreak in Izmir, Turkey. *Parasite* 13, 65–70, 2006.
- Wang ZQ, Cui J, Xu BL, the epidemiology of human trichinellosis in China during 2000–2003. *Acta Trop.* 97, 247–251, 2006.
- Zimmer IA et al., Detection and surveillance for animal trichinellosis in GB. *Vet. Parasitol.* 151, 233–241, 2008.
- Zivojinovic M et al., *Trichinella* prevalence in swine in an endemic district in Serbia: epidemiology and control. *Vet. Parasitol.* 159, 358–360, 2009.

4.5.18 Trichostrongylose

- Adams VJ et al., Paradoxical helminthiasis and giardiasis in Cape Town, South Africa: epidemiology and control. *Afr. Health Sci* 5, 276–280, 2005.
- Becouet R et al., Contribution à l'étude de la trichostrongylose humaine (à propos de 71 observations). *Ann. Soc. Belg. Med. Trop.* 62, 139–155, 1982.
- Boreham RE et al., Human trichostrongylosis in Queensland. *Pathology* 27, 182–185, 1995.
- Chai JY et al., High prevalence of *Haplorchis taichui*, *Prosthodendrium molenkampi*, and other helminth infections among people in Khammouane province, Lao PDR. *Korean J. Parasitol.* 47, 243–247, 2009.
- El Shazly AM et al., Intestinal parasites in Dakahlia governate, with different techniques in diagnosing protozoa. *J. Egypt. Soc. Parasitol.* 36, 1023–1034, 2006.
- Ralph A et al., Abdominal pain and eosinophilia in suburban goat keepers – trichostrongylosis. *Med. J. Aust.* 184, 467–469, 2006.
- Thibert JB, Guiguen C, Gangneux JP, Human trichostrongylosis: case report and microscopic difficulties to identify ankylosis

tomidae eggs. *Ann. Biol. Clin.* 64, 281–285, 2006.

Yong TS et al., Differential diagnosis of *Trichostrongylus* and hookworm eggs via PCR using ITS-1 sequence. *Korean J. Parasitol.* 45, 69–74, 2007.

4.5.19 Andere Infektionen mit Nematoden

Anderson TJC, *Ascaris* infections in humans in North America: Molecular evidence for cross-infection. *Parasitology* 110, 215–219, 1995.

Eberhard ML, Alfano E, Adult *Toxocara cati* infection in US children: report of four cases. *Am. J. Trop. Med. Hyg.* 59, 404–406, 1998.

Fisher M, *Toxocara cati*: an underestimated zoonotic agent. *Trends Parasitol.* 19, 167–170, 2003.

Goldsmith JM, The African hookworm problem: an overview. In: *Parasitic helminths and zoonoses in Africa* (eds. MacPherson CNL, Craig PS), Unwin Hyman London, pp101–137, 1991.

Hemsrichart V, *Ternidens deminutus* infection: first pathological report of a human case in Asia. *J. Med. Assoc. Thai.* 88, 1140–1143, 2005.

Nejsum P et al., Ascariasis is a zoonosis in Denmark. *J. Clin. Microbiol.* 43, 1142–1148, 2005.

Schindler AR et al., Definition of genetic markers in nuclear ribosomal DNA for a neglected parasite of primates, *Ternidens deminutus* (Nematoda: Strongylida) – diagnostic and epidemiological implications. *Parasitology* 131, 539–546, 2005.

4.6 Durch Acanthocephalen hervorgerufene Erkrankungen

Beaver PC et al., *Acanthocephalan*, probably *Bolsoma*, from the peritoneal cavity of a man in Japan. *Am. J. Trop. Med. Hyg.* 32, 1016–1018, 1983.

Berenji F, Fata A, Hosseininejad Z, A case of *Moniliformis moniliformis* (*Acanthocephala*) infection in Iran. *Korean J. Parasitol.* 45, 145–148, 2007.

Ikeh EI, Anosike JC, Okon E, *Acanthocephalan* infection in man in northern Nigeria. *J. Helminthol.* 66, 241–242, 1992.

Leng YJ, Huang WD, Liang PN, Human infection with *Macracanthorhynchus hirudinaceus*

Travassos, 1916 in Guangdong Province, with notes on its prevalence in China. *Ann. Trop. Med. Parasitol.* 77, 107–109, 1983.

Prociv P et al., First record of human *Acanthocephalan* infections in Australia. *Med. J. Aust.* 152, 215–216, 1990.

Radomyos P, Chobchuanchom A, Tungtrongchitr A, Intestinal perforation due to *Macracanthorhynchus hirudinaceus* infection in Thailand. *Trop. Med. Parasitol.* 40, 476–477, 1989.

Sahar MM et al., A child with an *Acanthocephalan* infection. *Ann. Saudi Med.* 26, 321–324, 2006.

Schmidt GD, *Acanthocephalan* infections of man, with two new records. *J. Parasitol.* 57, 582–584, 1971.

Solaymani-Mohammadi S et al., Helminth parasites of the wild boar, *Sus scrofa*, in Luristan province, western Iran and their public health significance. *J. Helminthol.* 77, 263–267, 2003.

Tada I et al., The first case of a human infected with an *Acanthocephalan* parasite, *Bolbosoma* sp. *J. Parasitol.* 69, 205–208, 1983.

4.7 Durch Arthropoden verursachte Erkrankungen

4.7.1 Erkrankungen durch Zecken

Campbell BS, Bowles DE, Human tick bite records in a United States Air Force population, 1989–1992: Implications for tick borne disease risk. *J. Wilderness Med.* 5, 405–412, 1994.

Dobler G, Aspöck H, *Durch Zecken übertragene Arboviren als Erreger von Infektionskrankheiten des Menschen*. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 467–499, 2010.

Dworkin MS, Shoemaker PC, Anderson DE Jr, Tick paralysis: 33 human cases in Washington State, 1946–1996. *Clin. Infect. Dis.* 29, 1435–1439, 1999.

Faulde M, Insektizide, Akarizide und Repellentien. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 109–122, 2010.

Felz MW, Swift TR, Hobbs W, Tick paralysis in the United States: a photographic review. *Arch. Neurol.* 57, 1071–1072, 2000.

Fritsche TR, Arthropods of medical importance. In: Murray PR (ed. in chief): *Manual of Clinical Microbiology*. 7th ed.

- ASM Press, Washington D.C. Parasitology cap. 114, pp. 1449–1466, 1999.
- Goddard J, Tick paralysis. *Infect. Med.* 15, 28–31, 1998.
- Gothe R, Neitz AWH, Tickparalysis: pathogenesis and etiology. In: Harris KF (ed.), Springer-Verlag, New York, Berlin, Heidelberg, London, Paris, Tokyo, Honkong, Barcelona. *Adv. Dis. Vector. Res.* 8, 177–204, 1991.
- Grattan-Smith PJ et al., Clinical and neurophysiological features of tick paralysis. *Brain* 120, 1975–1987, 1997.
- Hoogstraal H, Bibliography of ticks and tick-borne diseases. *US-Naval Med Res.* 3, Cairo 1978.
- Kettle DS, Medical and veterinary entomology. C. A. B. International, Wallingford, U.K., 2nd edition, 1995.
- Kimmig P, Hassler D, Braun R, Zecken, kleiner Stich mit bösen Folgen. Verlagsgruppe Lübbe GmbH, 3. Aufl. 2001.
- Krantz W, Walter DE, A manual of Acarology. Texas Tech University Press, 2009.
- Liebisch A, Schmidt C, Friedhoff KT, Zeckenbefall und durch Zecken übertragene Infektionen bei kleinen Haustieren unter besonderer Berücksichtigung der Lyme-Borreliose. *Collegium Veterinarium* 23, 112–115, 1991.
- Liebisch A, Biologie und Ökologie der Zecken. In: Horst H (Hrsg.), *Einheimische Zeckenborreliose (Lyme-Krankheit) bei Mensch und Tier.* 31–47, 1991.
- Liebisch A, Liebisch G, Zeckenbefall. In: Wiesner E (Hrsg.), *Handlexikon der tierärztlichen Praxis*, Gustav Fischer, Stgt, Jena, N.Y., 1996.
- Luttrell MP, Creekmore LH, Mertins JW, Avian tick paralysis caused by *Ixodes brunneus* in the southeastern United States. *J. Wildl. Dis.* 32, 133–136, 1996.
- Maier WA (ed.) Mögliche Auswirkungen von Klimaveränderungen auf die Ausbreitung von primär humanmedizinisch relevanten Krankheitserregern über tierische Vektoren sowie die wichtigsten Humanparasiten in Deutschland. Forschungsbericht 200 61 218/11, Bundesumweltamt Berlin, 2003.
- Mebis D, Gifttiere. Wissenschaftliche Verlagsgesellschaft, Stuttgart, 2002.
- Murray PR (ed.) *Manual of clinical microbiology.* 9th ed. Section X, Parasitology, ch 149, ASM Press, Washington D.C., USA, 2007.
- Petney TN, Pfäffle M, Skuballa J, An annotated checklist of the ticks (Acari, Ixodida) of Germany. *Systemic and Applied Acarology*, 2011, in press.
- Salafsky B et al., Short report: study on the efficacy of a new long-acting formulation of N, N-diethyl-m-toluamide (DEET) for the prevention of tick attachment. *Am. J. Trop. Med. Hyg.* 62, 169–172, 2000.
- Sonenshine DE, Tick paralysis and other tick-borne toxicoses. In: Sonenshine DE, *Biology of ticks.* Oxford University Press, New York, Oxford. Vol. 2, 320–330, 1993.
- Stromdahl EY, Prevalence of infection in ticks submitted to the human tick test kit program of the U.S. Army Center for Health Promotion and Preventive Medicine. *J. Med. Entomol.* 38, 67–74, 2001.
- Uspensky I, Ioffe-Uspensky I, The dog factor in brown dog tick *Rhipicephalus sanguineus* (Acari: Ixodidae) infestations in and near human dwellings. *Int. J. Med. Microbiol.* 291 Suppl. 33, 156–163, 2002.

4.7.2 Erkrankungen durch Milben

- Beck W, Tierische Milben als Epizoonoseerreger und ihre Bedeutung in der Dermatologie. *Hautarzt* 47, 744–748, 1996.
- Beck W, Occurrence of a house-infesting Tropical Rat Mite (*Ornithonyssus bacoti*) on Murids and Human beings. *Travel Medicine and Infectious Disease*, 6, 245–249, 2008.
- Beck W, Prosl H, Humanpathogene Milben (Acari) von Tieren und aus der Natur – seltene Zoonose-Erreger des Menschen in Mitteleuropa. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, *Denisia* 30, 123–136, 2010.
- Broce A et al., *Pyemotes herfsi* (Acari: Pyemotidae), a mite new to North America as a cause of bite outbreaks. *J. Med. Entomol.* 43, 610–613, 2006.
- Burgess J, *Sarcoptes scabiei* and scabies. *Adv. Parasitol.* 33, 235–293, 1994.
- Chung SL et al., Outbreak of rat mite dermatitis in medical students. *Int. J. Dermatol.* 37, 591–594, 1998.
- Ferreira de Oliveira CR, Cysmeiros Matas CH, Hatanao E, Occurrence of *Pyemotes* sp. on *Tuta absoluta* (Meyrick). *Braz. Archs. Biol. Technol.* 50, 929–932, 2007.

- Frances SP et al., Seasonal occurrence of *Leptotrombidium deliense* (Acari: Trombiculidae) attached to sentinel rodents in an orchard near Bangkok, Thailand. *J. Med. Entomol.* 36, 869–874, 1999.
- Glosner SE, Kang E, Pyemotes, the mysterious itch mite. *US Pharm.* 33, 59–64, 2008.
- Houck MA, Qin H, Roberts HR, Hantavirus transmission: potential role of ectoparasites. *Vector Borne Zoonotic Dis.* 1, 75–79, 2001.
- Kampen H, Laufmilben (Acari, Trombiculidae) als Krankheitserreger und -überträger. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 137–148, 2010.
- Keh B, Lane RS, Shachter SP, Cheyletiella blakei, an ectoparasite of cats, as cause of cryptic arthropod infestations affecting humans. *West. J. Med.* 146, 192–194, 1987.
- Kettle DS, *Medical and Veterinary Entomology*. CAB International, Wallingford, Oxon, UK, 1990.
- Lucky AW et al., Avian mite bites acquired from a new source, pet gerbils: Report of 2 cases and review of the literature. *Arch. Dermatol.* 137, 167–170, 2002.
- Maier WA (Hrsg.) Mögliche Auswirkungen von Klimaveränderungen auf die Ausbreitung von primär humanmedizinisch relevanten Krankheitserregern über tierische Vektoren sowie die wichtigsten Humanparasiten in Deutschland. *Forschungsbericht 200 61 218/11*, Bundesumweltamt Berlin, 2003.
- Meinking TL et al., The treatment of scabies with ivermectin. *New Engl. J. Med.* 333, 26–30, 1995.
- Mumcuoglu Y, Ruffli T, *Dermatologische Entomologie*, Perimed Fachbuch Verlagsges., Erlangen, 1983.
- Nordenfors H, Hoglund J, Long term dynamics of *Dermanyssus gallinae* in relation to mite control measures in aviary systems for layers. *Br. Poult. Sci.* 41, 533–540, 2000.
- Orton DI, Warren LJ, Wilkinson JD, Avian mite dermatitis. *Clin. Exp. Dermatol.* 25, 129–131, 2000.
- Prosl H, Rabitsch A, Brabenetz J, Zur Bedeutung der Herbstgrasmilbe – *Neotrombicula autumnalis* (Shaw 1790) – in der Veterinärmedizin: Nervale Symptome bei Hunden nach massiver Infestation. *Tierärztl. Praxis.* 13, 57–64, 1985.
- Regan AM, Metersky ML, Craven DE, Nosocomial dermatitis and pruritus caused by pigeon mite infestation. *Arch. Intern. Med.* 147, 2185–2187, 1987.
- Rositter A, Occupational otitis externa in chicken catchers. *J. Laryngol. Otol.* 111, 366–367, 1997.
- Schnieder T (Hrsg.) *Veterinärmedizinische Parasitologie*. Parey Verlag, 6. Auflage, 2006.
- Schöler A, Maier WA, Kampen H, Multiple environment factor analysis in habitats of the harvest mite *Neotrombicula autumnalis* (Acari: Trombiculidae) suggests extraordinarily high euryoecious biology. *Exp. Appl. Acarology* 39, 41–62, 2006.
- Shatrov AB, Stylostome formation in trombiculid mites (Acariformes, Trombiculidae). *Exp. Appl. Acarology*, 49, 261–280, 2009.
- Smith GA et al., The summer penile syndrome: Seasonal acute hypersensitivity reaction caused by chigger bites on the penis. *Pediatr. Emerg. Care* 14, 116–118, 1998.
- Sy M, Über die Herbstmilbe-*Neotrombicula autumnalis* (Shaw) – und Versuche zu ihrer Bekämpfung. *Bundesgesundheitsblatt* 29, 237–243, 1986.
- Wagner R, Stallmeister N, Cheyletiella dermatitis in humans, dogs and cats. *Br. J. Dermatol.* 143, 1110–1112, 2000.

4.7.3 Erkrankungen durch Diptera

4.7.3.1 Stiche durch Mücken und Fliegen

- Adler PH, McCreadie JW, Black flies (Simuliidae) In: Mullen G and Durden L (eds.), *Medical and Veterinary Entomology*, Academic Press, Amsterdam, 183–200, 2009.
- Anderson GS, Belton B, Kleider N, Hypersensitivity of horses in British Columbia to extracts of native and exotic species of *Culicoides* (Diptera: Ceratopogonidae). *J. Med. Entomol.* 30, 657–663, 1993.
- Auer H, Aspöck H, *Loa Loa* und die Loaose. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 795–800, 2010.
- Aspöck U, Aspöck H, *Arthropoda – ein Fascinosum*. Zur Biodiversität und Systematik der erfolgreichsten Metazoa im Spiegel ihrer medizinischen Bedeutung. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 33–80, 2010.
- Becker N, Glaser P, Magily H, Biologische Stechmückenbekämpfung am Oberrhein. Kommunale Aktionsgemeinschaft zur Be-

- kämpfung der Schnakenplage, Waldsee, 1996.
- Becker N et al., Mosquitoes and their control. Kluwer Academic/Plenum Publisher NY, 2003.
- Borkent A, Biting midges (Ceratopogonidae). In: Marquardt WC (ed.), *Biology of Disease Vectors*. Elsevier Academic Press, Amsterdam 113–126, 2005.
- Dobler D, Aspöck H, Durch Stechmücken übertragene Arboviren als Erreger von Infektionen des Menschen. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 501–553, 2010.
- Grassberger M, Tabanidae, Bremsen. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 261–266, 2010.
- Kettle DS, *Medical and Veterinary Entomology*. C.A.B. International, Wallingford, UK. 2nd edition, 1995.
- Killick-Kendrick R et al., Preliminary field observations on the flight speed of a phlebotomine sandfly. *Trans. R. Soc. Trop. Med. Hyg.* 80, 138–142, 1986.
- Killick-Kendrick M, Killick-Kendrick R, *Biology of sandfly vectors of Mediterranean canine leishmaniasis*. Proc. Int. Canine Leishmaniasis Forum, Barcelona, Spain, 26–31, 1999.
- Maier WA (Hrsg.) Mögliche Auswirkungen von Klimaveränderungen auf die Ausbreitung von primär humanmedizinisch relevanten Krankheitserregern über tierische Vektoren sowie die wichtigsten Humanparasiten in Deutschland. Forschungsbericht 200 61 218/11, Bundesumweltamt Berlin, 2003.
- Molloy DP, Progress in the biological control of black flies with *Bacillus thuringiensis israelensis* with emphasis on temperate climates. In: de Bariac H, Sutherland DJ (eds), *Bacterial control of Mosquitoes and black flies: Biochemistry, Genetics and Applications of Bacillus thuringiensis israelensis and Bacillus sphaericus*. Rutgers Univ. Press, New Brunswick, N.J., 161–186, 1990.
- Mullen GR, Biting midges (Ceratopogonidae). In: Mullen G, Durden L (eds.), *Medical and Veterinary Entomology*. Academic Press, Amsterdam, 169–188, 2009.
- Mumcuoglu Y, Ruffli T, *Dermatologische Entomologie*. Perimed Fachbuch Verlagsges., Erlangen, 1983.
- Naucke T, Pesson B, Presence of *Phlebotomus* (Transphlebotomus) *mascittii*, Grassi 1908 (Diptera, Psychodidae) in Germany. *Parasitol. Res.* 86, 335–336, 2000.
- Werner D, Grunewald J, Kriebelmücken (Diptera, Simuliidae) und ihre Rolle als Krankheitsüberträger. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 233–243, 2010.
- Werner D, Kampen H, Gnitzen (Diptera, Ceratopogonidae) und ihre medizinische Bedeutung. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 235–260, 2010.
- 4.7.3.2 Myiasis**
- Boggild AK, Keystone JS, Kain KC, Furuncular myiasis: a simple and rapid method for extraction of intact *Dermatobia hominis* larvae. *Clin. Infect. Dis.* 35, 336–338, 2002.
- Delhaes L et al., Case report: recovery of *Calliphora vicina* firstinstar larvae from a human traumatic wound associated with a progressive necrotizing bacterial infection. *Am. J. Trop. Med. Hyg.* 64, 159–161, 2001.
- Edwards KM et al., Ophthalmomyiasis interna causing visual loss. *Am. J. Ophthalmol.* 97, 605–610, 1984.
- FAO, *The World Screwworm Eradication Programme*. FAO, Rom, 1991.
- Gordon PM et al., Cutaneous myiasis due to *Dermatobia hominis*: a report of six cases. *Br. J. Dermatol.* 132, 811–814, 1995.
- Grassberger M, Amendt J, Myiasis-Fliegenmadenkrankheit. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, Denisia 30, 427–438, 2010.
- Hall MR, Wall R, Myiasis of humans and domestic animals. *Adv. Parasitol.* 35, 257–334, 1995.
- Jelinek T et al., Cutaneous myiasis: review of 13 cases in travelers returning from tropical countries. *Int. J. Dermatol.* 34, 624–626, 1995.
- Kearney MS et al., Ophthalmomyiasis caused by the reindeer warble fly larva. *J. Clin. Pathol.* 44, 276–284, 1991.
- Macdonald PJ et al., Ophthalmomyiasis and nasal myiasis in New Zealand: a case series. *N. Z. Med. J.* 112, 445–447, 1999.
- Robert L, Yelton J, Imported furuncular myiasis in Germany. *Mil. Med.* 167, 990–993, 2002.

- Sampson CE, Maguire J, Eriksson E, Botfly myiasis: case report and brief review. *Ann. Plast. Surg.* 46, 150–152, 2001.
- Sherman RA, Wound myiasis in urban and suburban United States. *Arch. Intern. Med.* 160, 2004–2014, 2000.
- Tamir J et al., *Dermatobia hominis* myiasis among travelers returning from South America. *J. Am. Acad. Dermatol.* 48, 630–632, 2003.
- Victoria J, Trujillo R, Barreto M, Myiasis: a successful treatment with topical ivermectin. *Int. J. Dermatol.* 38, 142–144, 1999.
- Weinand FS, Bauer C, Autochthon in Deutschland erworbene Ophthalmomyiasis externa: Kasuistik und Literaturübersicht. *Ophthalmologica* 215, 383–386, 2001.

4.7.4 Erkrankungen durch Flöhe

4.7.4.1 Flohstiche

- Beck W, Clark HH, Differential diagnosis of medically relevant flea species and their significance in dermatology. *Hautarzt* 48, 714–719, 1997.
- Beck W, Prosl H, Humanpathogene Flöhe (Siphonaptera) von Tieren und aus der Natur- Zoonose-Erreger des Menschen in Mitteleuropa. In: Aspöck H (Hrsg.), *Krank durch Arthropoden, Denisia* 30, 267–278, 2010.
- Brown M, Hebert AA, Insect repellents: An overview. *J. Am. Acad. Dermatol.* 36, 243–249, 1997.
- Craven RB et al., Reported cases of human plague infections in the United States, 1970–1991. *J. Med. Entomol.* 30, 758–761, 1993.
- Kern WH jr et al., Outdoor survival and development of immature cat fleas (Siphonaptera: Pulicidae) in Florida. *J. Med. Entomol.* 36, 207–211, 1999.
- Kettle DS, *Medical and Veterinary Entomology*. C.A.B. International, Wallingford, U.K., 2nd ed., 1995.
- Mackey SL, Wagner KF, Dermatologic manifestations of parasitic diseases. *Infect. Dis. Clin. North. Am.* 8, 713–743, 1994.
- Mumcuoglu Y, Ruffli T, *Dermatologische Entomologie*, Perimed Fachbuch Verlagsges., Erlangen, 1983.
- Robinson WH, Distribution of cat flea larvae in the carpeted household. *Vet. Dermatol.* 6, 145–150, 1995.

- Rust MK, Dryden MW, The biology, ecology, and management of the cat flea. *Ann. Rev. Entomol.* 42, 451–473, 1997.

4.7.4.2 Tungiose

- Arranz J et al., Four imported cases of tungiasis in Mallorca. *Travel. Med. Infect. Dis.* 9, 161–164, 2011.
- Cooper JE, An outbreak of *Tunga penetrans* in a pig herd. *Vet. Rec.* 80, 365–366, 1967.
- Eisele M et al., Investigations on the biology, epidemiology, pathology and control of *Tunga penetrans* in Brazil. I. Natural history of tungiasis in man. *Parasitol. Res.* 90, 87–99, 2003.
- Heukelbach J, Revision on tungiasis: treatment options and prevention. *Expert. Rev. Anti Infect. Ther.* 4, 151–157, 2006.
- Heukelbach J et al., Topical treatment of tungiasis, a randomized, controlled trial. *Am. J. Trop. Med. Parasitol.* 97, 743–749, 2003.
- Heukelbach J et al., A neglected health problem of poor communities. *Trop. Med. Intern. Health* 6, 267–272, 2001.
- Kehr JD et al., Morbidity assessment in sand flea disease (tungiasis). *Parasitol. Res.* 100, 413–421, 2007.
- Mazigo HD et al., Tungiasis infestation in Tanzania. *J. Infect. Dev. Ctries* 29, 187–189, 2010.
- Pampiglione S, Fiovaranti ML, Gustinelli A et al., Sand flea (*Tunga* spp.) infections in humans and domestic animals: state of the art. *Med. Vet. Entomol.* 23, 172–186, 2009.
- Sanusi ID, Brown EB, Shepard TG, Grafton WD, Tungiasis: report of one case and review of the 14 reported cases in the United States. *J. Am. Acad. Dermatol.* 20, 941–944, 1989.
- Taylor MA, Recent developments in ectoparasites. *Vet. J.* 161, 253–268, 2001.
- Veraldi S, Carrera C, Schianchi R, Tungiasis has reached Europe. *Dermatology* 201, 382, 2000.
- Winter B, Oliveira FA, Wilcke T et al., Tungiasis-related knowledge and treatment practices in two endemic communities in northeast Brazil. *J. Infect. Dev. Ctries* 3, 458–466, 2009.

4.7.5 Erkrankungen durch Wanzen

- Blow JA et al., Stercorarial shedding and transstadial transmission of hepatitis B virus by

- common bed bugs (Hemiptera: Cimicidae). *J. Med. Entomol.* 38, 694–700, 2001.
- Delaunay P, Blanc V, del Guidice P et al., Bedbugs and infectious diseases. *Clin. Infect. Dis.* 52, 200–210, 2011.
- Fletcher MC, Axtell RC, Susceptibility of the bedbug, *Cimex lectularius*, to selected insecticides and various treated surfaces. *Med. Vet. Entomol.* 7, 69–72, 1993.
- Goddard J, De Shazo R, Bed bugs (*Cimex lectularius*) and clinical consequences of their bites. *J. American Medical Association* 301, 1358–1366, 2009.
- Guerenstein PG, Guerin PM, Olfactory and behavioural responses of the bloodsucking bug *Triatoma infestans* to odours of vertebrate hosts. *J. Exp. Biol.* 204, 585–597, 2001.
- Gurtler R et al., Detecting domestic vectors of Chagas' disease: A comparative trial of six methods in north-west Argentina. *Bull. WHO* 73, 487–494, 1995.
- Krinski WL, True bugs (Hemiptera). In: Mullen G, Durden L (eds.), *Medical Veterinary Entomology*, Academic Press, Elsevier Science, Amsterdam, 303–316, 2002.
- Kumar S, Prakash S, Rao KM, Comparative activity of three repellents against bedbugs *Cimex hemipterus* (Fabr.). *Indian J. Med. Res.* 102, 20–23, 1995.
- Newberry K, Mchunu ZM, Cebekhulu SQ, Bedbug reinfestation rates in rural Africa. *Med. Vet. Entomol.* 5, 503–505, 1991.
- Oliveira-Filho AM, Difference of susceptibility of five triatomine species to pyrethroid insecticides – implications for Chagas' disease vector control. *Mem. Inst. Oswaldo Cruz.* 94, Suppl. 1, 425–428, 1999.
- Paul J, Bates J, Is infestation with the common bedbug increasing? *BMJ* 320, 1141, 2000.
- Pospischil R, Bettwanzen, Heteroptera, Cimicidae – ein weltweit wachsendes Problem. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, *Denisia* 30, 225–232, 2010.
- Pinto RJ, Cooper R, Kraft SK, *Bed Bug Handbook: The complete guide to bed bugs and their control*. Pinto&Associates Inc. Mechanicsville MD (USA), 1–266, 2007.
- Pung OJ, Banks CW, Jones DN, Krissinger MW, *Trypanosoma cruzi* in wild raccoons, opossums, and triatomine bugs in south-east Georgia, U.S.A. *J. Parasitol.* 81, 324–326, 1995.
- Romana CA et al., Palm trees as ecological indicators of risk areas for Chagas' disease. *Trans. R. Soc. Trop. Med. Hyg.* 93, 594–595, 1999.
- Salvatella R, Rosa R, Basmadjian Y et al., Ecology of *Triatoma rubrovaria* (Hemiptera, Triatominae) in wild and peridomestic environments of Uruguay. *Mem. Inst. Oswaldo Cruz* 90, 325–328, 1995.
- Sansom JE, Reynolds NJ, Peachey RD, Delayed reaction to bed bug bites. *Arch. Dermatol.* 128, 272–273, 1992.
- Temu EA, Minjas JN, Shiff CJ, Majala A, Bedbug control by permethrin-impregnated bednets in Tanzania. *Med. Vet. Entomol.* 13, 457–459, 1999.
- Tharakaram, S, Bullous eruption due to *Cimex lectularius*. *Clin. Exp. Dermatol.* 24, 241–242, 1999.
- Vallve SL, Rojo H, Wisnivesky-Colli C, Urban ecology of *Triatoma infestans* in San Juan, Argentina. *Mem. Inst. Oswaldo Cruz* 91, 405–408, 1996.
- Walochnik J, Aspöck H, Raubwanzen, Trypanosoma cruzi und Morbus Chagas – die Geißel Südamerikas. In: Aspöck H (Hrsg.), *Krank durch Arthropoden*, *Denisia* 30, 225–232, 2010.
- Zeledon R, Montenegro VM, Zeledon O, Evidence of colonization of man-made ecotopes by *Triatoma dimidiata* (Latreille, 1811) in Costa Rica. *Mem. Inst. Oswaldo Cruz* 96, 659–660, 2001.

4.8 Durch Pentastomiden verursachte Erkrankungen

- Chen SH, Liu Q, Zhang YN et al., Multi-host model-based identification of *Armillifer agkistrodontis* (Pentastomida), a new zoonotic parasite from China. *PLoS Negl. Trop. Dis.* 4, e647, 2010.
- Dakubo J, Naaeder S, Komodji S, Totemism and the transmission of human pentastomiasis. *Ghana Med. J.* 42, 165–168, 2008.
- Faisy C, Boye B, Blatt A et al., Porocephalosis, une parasitose peu connue, revue de la littérature et un cas congolais report. *Med. Trop. (Mars)* 55, 258–262, 1995.
- Machado MA, Makdissi FF, Canedo LF et al., Unusual case of pentastomiasis mimicking liver tumor. *J. Gastroenterol. Hepatol.* 21, 1218–1220, 2006.
- Lai C, Wang XQ, Lin L et al., Imaging features of pediatric pentostomiasis infection: a

- case report. Korean J. Radiol. 11, 480–484, 2010.
- Lazo RF, Hidalgo E, Lazo JE et al., Ocular linguatuliiasis in Ecuador: a case report and morphometric study of the larva of *Linguatula serrata*. Am. J. Trop. Med. Hyg. 60, 405–409, 1999.
- Ma KC, Qiu MH, Rong YL, Pathological differentiation of suspected cases of pentastomiasis in China. Trop. Med. Int. Health 7, 166–177, 2002.
- Morsy TA, El-Sharkawy IM, Lashin AH, Human nasopharyngeal linguatuliiasis (Pentastomida) caused by *Linguatula serrata*. J. Egypt. Soc. Parasitol. 29, 787–790, 1999.
- Nourollahi Fard SR, Kheirandish R, Asl EN, Fathi S, The prevalence of *Linguatula serrata* nymphs in goats slaughtered in Kerman slaughterhouse, Kerman, Iran. Vet. Parasitol. 171, 176–178, 2010.
- Pan C, Tang H, Qiu M, Xiong Q, Heavy infection with *Armillifer moniliformis*. Chin. Med. J. 118, 262–264, 2005.
- Trappe D, Büttner DW, Diagnosis of human visceral pentastomiasis. PLoS Negl. Trop. Dis. 3, e320, 2009.
- Tappe D, Winzer DW, Büttner: Linguatuliiasis in Germany. Emerg. Infect. Dis. 12, 1334–1336, 2006.
- Yagi H et al., The Marrara syndrome: a hypersensitivity reaction of the upper respiratory tract and buccopharyngeal mucosa to nymphs of *Linguatula serrata*. Acta Trop. 62, 127–134, 1996.
- Yao MH, Wu F, Tang LT, Human pentastomiasis in China: case report and literature review. J. Parasitol. 94, 1295–1298, 2008.
- ## A.1 Infektionen durch Tierbisse
- Akahane T et al., A case of wound dual infection with *Pasteurella dagmatis* and *Pasteurella canis* resulting from a dog bite – Limitation of Vitek-2 system in exact identification of *Pasteurella* species. Eur. J. Med. Res. 16, 531–536, 2011.
- Badejo OA, Komolafe OO, Obinwogwu DL, Bacteriology and clinical course of camel-bite wound infections. Eur. J. Clin. Microbiol. Infect. Dis. 18, 918–921, 1999.
- Baker AS, Ruoff KL, Madoff S, Isolation of *Mycoplasma* species from a patient with seal finger. Clin. Infect. Dis. 27, 1168–1170, 1998.
- Barnham M, Pig bite injuries and infection: report of seven human cases. Epidemiol. Infect. 101, 641–645, 1988.
- Benaoudia F, Escande F, Simonet M, Infection due to *Actinobacillus lignieresii* after a horse bite. Eur. J. Clin. Microbiol. Infect. Dis. 13, 439–440, 1994.
- Berkowitz FE, Jacobs DWC, Fatal case of brain abscess caused by rooster pecking. Pediatr. Infect. Dis. J. 6, 941–942, 1987.
- Brenner DJ et al., *Capnocytophaga canimorsus* sp. nov. (formerly CDC group DF-2), a cause of septicemia following dog bite, and *C. cynodegmi* sp. nov., a cause of localized wound infection following dog bite. J. Clin. Microbiol. 27, 231–235, 1989.
- Buck JD et al., Bacteriology of the teeth from a great white shark: potential medical implications for shark bite victims. J. Clin. Microbiol. 20, 849–851, 1984.
- Escande F, Vallee E, Aubart F, *Pasteurella caballi* infection following a horse bite. Zbl. Bakt. 285, 440–444, 1997.
- Flandry F et al., Initial antibiotic therapy for alligator bites: Characterization of the oral flora of *Alligator mississippiensis*. Southern Med. J. 82, 262–266, 1989.
- Fraser SL et al., Rapidly fatal infection due to *Photobacterium (Vibrio) damsela*. Clin. Infect. Dis. 25, 935–936, 1997.
- Gaver-Wainwright MM et al., Misdiagnosis of spider bites: bacterial associates, mechanical pathogen transfer, and hemolytic potential of venom from the hobo spider, *Tegenaria agrestis* (Araneae: Agelenidae). J. Med. Entomol. 48, 382–388, 2011.
- Goldstein EJC et al., Bacteriology of rattlesnake venom and implications for therapy. J. Infect. Dis. 140, 818–821, 1979.

- Goldstein EJC, Citron DM, Finegold SM, Role of anaerobic bacteria in bite-wound infections. *Rev. Infect. Dis.* 6, S177–S183, 1984.
- Goldstein EJC et al., Recovery of an unusual *Flavobacterium* group IIb-like isolate from a hand infection following pig bite. *J. Clin. Microbiol.* 28, 1079–1081, 1990.
- Goldstein EJC, Bite wounds and infection. *Clin. Infect. Dis.* 14, 633–640, 1992.
- Goldstein EJC, Pryor EP III, Citron DM, Simian bites and bacterial infection. *Clin. Infect. Dis.* 20, 1551–1552, 1995.
- Goldstein EJC, Current concepts on animal bites: bacteriology and therapy. *Curr. Clin. Topics Infect. Dis.* 19, 99–111, 1999.
- Haddad V et al., Localized lymphatic sporotrichosis after fish-induced injury (*Tilapia* sp.). *Med. Mycol.* 40, 425–427, 2002.
- Hsieh S, Babl FE, *Serratia marcescens* cellulitis following an iguana bite. *Clin. Infect. Dis.* 28, 1181–1182, 1999.
- Kaiser RM et al., Clinical significance and epidemiology of NO-1, an unusual bacterium associated with dog and cat bites. *Emerg. Infect. Dis.* 8, 171–174, 2002.
- Lam KK et al., A cross sectional survey of snake oral bacterial flora from Hong Kong, SAR, China. *Emerg. Med. J.* 28, 107–114, 2011.
- Montejo MK, Aguirrebengoa et al., *Bergeyella zoohelcum* bacteremia after a dog bite. *Clin. Infect. Dis.* 33, 1608–1609, 2001.
- Oehler RL et al., Bite-related and septic syndromes caused by cats and dogs. *Lancet Infect. Dis.* 9, 439–447, 2009.
- Pavia AT et al., *Vibrio carchariae* infection after a shark bite. *Ann. Intern. Med.* 111, 85–86, 1989.
- Pers C, Gahrn-Hansen B, Frederiksen W, *Capnocytophaga canimorsus* septicemia in Denmark, 1982–1995: review of 39 cases. *Clin. Infect. Dis.* 23, 71–75, 1996.
- Talan DA FM et al., Bacteriologic analysis of infected dog and cat bites. *N. Engl. J. Med.* 340, 85–92, 1999.
- Von Graevenitz AJ et al., Human infection with *Halomonas venusta* following fish bite. *J. Clin. Microbiol.* 38, 3123–3124, 2000.
- A.2 Infektionen und Intoxikationen durch tierische Nahrungsmittel („Food-borne diseases“)**
- Anderson AD et al., Multistate outbreak of Norwalk-like virus gastroenteritis associated with a common caterer. *Am. J. Epidemiol.* 154, 1013–1019, 2001.
- Archer DL, Young FE, Contemporary issues: diseases with a food vector. *Clin. Microbiol. Rev.* 1, 377–398, 1988.
- Arcuri EF et al., Toxigenic status of *Staphylococcus aureus* isolated from bovine raw milk and Minas frescal cheese in Brazil. *J. Food Protect.* 73, 2225–2231, 2010.
- Callis JJ, Evaluation of the presence and risk of foot and mouth disease virus by commodity in international trade. *Rev. Sci. Tech.* 15, 1075–1085, 1996.
- Chan TY, Chiu SW, Wild mushroom poisonings in Hong Kong. *Southeast Asian J. Trop. Med. Public Health* 42, 468–469, 2011.
- CDC, Neurologic illness associated with eating Florida pufferfish, 2002. *Morb. Mortal. Wkly. Rep.* 51, 321–323, 2002.
- CDC, Surveillance of food-borne disease outbreaks – United States, 2008. *MMWR Morb. Mortal. Wkly Rep.* 60, 1197–1202, 2011.
- Chin J (ed.) *Control of communicable diseases. Manual.* 17th ed. Amer. Publ. Health Assn., Washington, D.C., 2000.
- Clover DO, Viral foodborne disease agents of concern. *J. Food Prot.* 57, 176–178, 1994a.
- Clover DO, Epidemiology of viral foodborne disease. *J. Food Prot.* 57, 263–266, 1994b.
- Cox PA, Sacks OW, Cycad neurotoxins, consumption of flying foxes, and ALS-PDC disease in Guam. *Neurology* 58, 956–959, 2002.
- Donaldson AI, Risks of spreading foot and mouth disease through milk and dairy products. *Rev. Sci. Tech.* 16, 117–124, 1997.
- Doores S, Food safety – current status and future needs. *American Academy of Microbiology, Washington, D.C.*, 1999.
- Fürst T, Keiser J, Utzinger J, Global burden of human food-borne trematodiasis. A systemic review and meta-analysis. *Lancet Infect. Dis.* 2011 (Epub ahead).
- Gleibs S, Mebs B, Studies on the origin and distribution of palytoxin in a Caribbean coral reef. *Toxicon* 33, 1531–1537, 1995.

- Hall AH, Spoerke BH, Mushroom poisoning: identification, diagnosis, and treatment. *Pediatr. Rev.* 8, 291–298, 1987.
- Kodama AM et al., Clinical and laboratory findings implicating palytoxin as cause of ciguatera poisoning due to *Decapterus macrostoma* (mackerel). *Toxicon* 27, 1051–1053, 1989.
- Hermans D et al., Poultry as host for the zoonotic pathogen *Campylobacter jejuni*. *Vector Borne Zoonotic Dis.* 2011 (Epub. ahead).
- Mamminna C et al., A food-borne outbreak of *Salmonella enteritica* serotype Brandenburg as a hint to compare human, animal and food isolates identified in the years 2005–2009 in Italy. *J. Prev. Med. Hyg.* 52, 9–11, 2011.
- Mead PS et al., Food-related illness and death in the United States. *Emerg. Inf. Dis.* 5, 607–625, 1999.
- Mebs D, Occurrence and sequestration of toxins in food chains. *Toxicon* 36, 1519–1522, 1998.
- Mebs D, *Gifttiere*. Wiss. Verlagsgesellschaft, Stuttgart, 2000.
- Medus C JB et al., *Salmonella* infections in food workers identified through routine Public Health Surveillance in Minnesota: impact on outbreak recognition. *J. Food. Prot.* 73, 2053–2058, 2010.
- Mullendore JL et al., Improved method for the recovery of hepatitis A virus from oysters. *J. Virol. Methods* 94, 25–35, 2001.
- Rippey SR, Infectious diseases associated with molluscan shellfish consumption. *Clin. Microbiol. Rev.* 7, 419–425, 1994.
- Shao D et al., A brief review of foodborne zoonoses in China. *Epidemiol. Infect.* 139, 1497–1504, 2011.
- Sixl W et al., Rare transmission mode of FSME (tickborne encephalitis) by goat's milk. *Geogr. Med. Suppl.* 2, 11–14, 1989.
- Stafford R et al., An outbreak of Norwalk virus gastroenteritis following consumption of oysters. *Commun. Dis. Intell.* 21, 317–320, 1997.
- Stolle A, Sperner B, Viral infections transmitted by food of animal origin: the present situation in the European Union. *Arch. Virol., Suppl.*, 13, 219–228, 1997.
- Svensson L, Diagnosis of foodborne viral infections in patients. *Int. J. Food. Microbiol.* 59, 117–126, 2000.
- Tauxe RV, Emerging foodborne diseases: an evolving public health challenge. *Emerg. Infect. Dis.* 3, 425–434, 1997.
- Yolken RH, Losonsky GA, Vonderfecht S et al., Antibody to human rotavirus in cow's milk. *New Engl. J. Med.* 312, 605–610, 1985.

A.3 latrogene Übertragung zoonotischer Erreger

- Blusch JH, Patience U, Martin, Pig endogenous retroviruses and xenotransplantation. *Xenotransplantation* 9, 242–251, 2002.
- Boneva RS, Folks TM, Chapman LE, Infectious disease issues in xenotransplantation. *Clin. Microbiol. Rev.* 14, 1–14, 2001.
- CDC, Update: Detection of West Nile virus in blood donations – United States, 2003. *Morb. Mortal. Wkly. Rep.* 52, 916–919, 2003.
- Chapman L, Xenotransplantation: benefits and risks. *Emerg. Infect. Dis.* 7, Suppl. 3, 545, 2001.
- Ferber D, Virology. Monkey virus link to cancer grows stronger. *Science* 296, 1012–1015, 2002.
- Fishman JA, Infection in xenotransplantation. *J. Card. Surg.* 16, 363–373, 2001.
- Gerber MA et al., The risk of acquiring Lyme disease or babesiosis from a blood transfusion. *J. Infect. Dis.* 170, 231–234, 1994.
- Harrington T et al., West Nile virus infection transmitted by blood transfusion. *Transfusion* 43, 1018–1022, 2003.
- Iwamoto M et al., Transmission of West Nile virus from an organ donor to four transplant recipients. *New Engl. J. Med.* 348, 2196–2203, 2003.
- Leiby DA, Transfusion-transmitted *Babesia* spp.: bull's eye on *Babesia microti*. *Clin. Microbiol. Rev.* 24, 14–28, 2011.
- Morris MI, Fischer SA, Ison MG, Infections transmitted by transplantation. *Infect. Dis. Clin. North. Am.* 24, 497–514, 2010.
- Pealer LN et al., Transmission of West Nile virus through blood transfusion in the United States in 2002. *New Engl. J. Med.* 349, 1236–1245, 2003.
- Procopio AR et al., SV40 expression in human neoplastic and non-neoplastic tissues: perspectives on diagnosis, prognosis and therapy of human malignant mesothelioma. *Dev. Biol. Stand.* 94, 361–367, 1998.

- Reading FC, Brecher ME, Transfusion related sepsis. *Curr. Opinion in Hematology* 8, 380–386, 2001.
- Reynolds L, McKee M, Possible risks of transmission of bloodborne infection via acupuncture needles in Guizhou province, southwest China. *J. Altern. Complement. Med.* 14, 1281–1285, 2008.
- Sandler SG, Risks of blood transfusion. *Curr. Opinion in Hematology* 9, 509–510, 2002.
- Strickler HD, Goedert JJ, Exposure to SV40contaminated poliovirus vaccine and the risk of cancer – a review of the epidemiological evidence. *Dev. Biol. Stand.* 94, 235–244, 1998.
- Strickler HD et al., Contamination of poliovirus vaccines with simian virus 40 (1955–1963) and subsequent cancer rates. *JAMA* 279, 292–295, 1998.
- Wylie BR, Transfusion transmitted infection: viral and exotic diseases. *Anaesth. Intensive Care* 21, 24–30, 1993.