

References

- [1] Suzán, G. & Ceballos, G., 2005 The role of feral mammals on wildlife infectious disease prevalence in two nature reserves within Mexico City limits. *Journal of Zoo and Wildlife Medicine* **36**, 479–484.
- [2] Moncayo, A., Hice, C., Watts, D., Travassos de Rosa, A., Guzman, H., Russell, K., Calampa, C., Gozalo, A., Popov, V., Weaver, S. *et al.*, 2001 Allpahuayo virus: A newly recognized arenavirus (Arenaviridae) from arboreal rice rats (*Oecomys bicolor* and *Oecomys paricola*) in northeastern Peru. *Virology* **284**, 277–286.
- [3] Chu, Y. K., Owen, R. D., Gonzalez, L. M. & Jonsson, C. B., 2003 The complex ecology of hantavirus in Paraguay. *American Journal of Tropical Medicine and Hygiene* **69**, 263–268.
- [4] Milazzo, M., Barragán-Gomez, A., Hanson, J., Estrada-Franco, J., Arellano, E., González-Cózatl, F., Fernández-Salas, I., Ramirez-Aguilar, F., Rogers, D., Bradley, R. *et al.*, 2010 Antibodies to tacaribe serocomplex viruses (family Arenaviridae, genus Arenavirus) in cricetid rodents from New Mexico, Texas, and Mexico. *Vector-Borne and Zoonotic Diseases* **10**, 629–637.
- [5] Pinheiro, F., Shope, R., de Andrade, A., Bensabath, G., Cacios, G. & Casals, J., 1966 Amapari, a new virus of the tacaribe group from rodents and mites of Amapa territory, Brazil. In *Proceedings of the Society for Experimental Biology and Medicine. Society for Experimental Biology and Medicine (New York, NY)*, volume 122, pp. 531–535. Royal Society of Medicine.
- [6] Acha, P. & Szyfres, B., 2003 *Zoonoses and Communicable Diseases Common to Man and Animals*, volume II. Chlamydioses, Rickettsioses, and Viroses. Pan American Health Organization, Washington, D.C.
- [7] Li, Z., Yu, X., Jin, B., Yin, S., Zhang, G., Li, Y. & Chen, H., 1983 The detection of hemorrhagic fever with renal syndrome viral antigen in Korea field mice from China. *Chinese Journal of Epidemiology* **4**, 205–206.

- [8] Jiang, J., Zhang, W., Yao, K., Wu, X., Zuo, S., Zhan, L., Zhang, P. & Cao, W., 2007 A new hantaan-like virus in rodents (*Apodemus peninsulae*) from northeastern china. *Virus Research* **130**, 292–295.
- [9] Eckhoff, G., Mann, P., Gaillard, E., Dykstra, M. & Swanson, G., 1998 Naturally developing virus-induced lethal pneumonia in two guinea pigs (*Cavia porcellus*). *Journal of the American Association for Laboratory Animal Science* **37**, 54–57.
- [10] Web, D. & Woods, L., 2001 Microscopic evidence of adenoviral infection in a muskrat in Illinois. *Journal of Wildlife Diseases* **37**, 643–645.
- [11] Callahan, R., Sherr, C. & Todaro, G., 1977 A new class of murine retroviruses: immunological and biochemical comparison of novel isolates from *Mus cervicolor* and *Mus caroli*. *Virology* **80**, 401–416.
- [12] Callahan, R., Meade, C. & Todaro, G., 1979 Isolation of an endogenous type c virus related to the infectious primate type c viruses from the asian rodent *Vandeleuria oleracea*. *Journal of Virology* **30**, 124–131.
- [13] Levis, S., Morzunov, S., Rowe, J., Enria, D., Pini, N., Calderon, G., Sabbatini, M. & St Jeor, S., 1998 Genetic diversity and epidemiology of hantaviruses in argentina. *Journal of Infectious Diseases* **177**, 529.
- [14] Polop, F., Provencal, M., Pini, N., Levis, S., Priotto, J., Enría, D., Calderón, G., Costa, F. & Polop, J., 2010 Temporal and spatial host abundance and prevalence of Andes hantavirus in southern Argentina. *EcoHealth* pp. 1–9.
- [15] Larrieu, E., Cantoni, G., Herrero, E., Pérez, A., Talmon, G., Vázquez, G., Arellano, O. & Padula, P., 2008 Hantavirus antibodies in rodents and human cases with pulmonary syndrome, Rio negro, Argentina. *Medicina (Buenos Aires)* **68**, 373–379.
- [16] Vadell, M., Bellomo, C., San Martín, A., Padula, P. & Gómez Villafañe, I., 2011 Hantavirus ecology in rodent populations in three protected areas of Argentina. *Tropical Medicine & International Health* .
- [17] Araujo, J., Pereira, A., Nardi, M., Henriques, D., Lautenschlager, D., Dutra, L., Ometto, T., Hurtado, R., Maués, F., Nava, A. *et al.*, 2011

Detection of hantaviruses in Brazilian rodents by sybr-green-based real-time RT-PCR. *Archives of Virology* pp. 1–6.

- [18] De Oliveira, R., Padula, P., Gomes, R., Martinez, V., Bellomo, C., Bonvicino, C., e Lima, D., Bragagnolo, C., Caldas, A., D’Andrea, P. *et al.*, 2011 Genetic characterization of hantaviruses associated with sigmodontine rodents in an endemic area for hantavirus pulmonary syndrome in southern Brazil. *Vector-Borne and Zoonotic Diseases* **11**, 301–314.
- [19] Sosa-Estani, S., Martinez, V., Della Valle, M., Edelstein, A., Miguel, S., Padula, P., Cacase, M. & Segura, E., 2002 Hantavirus in human and rodent populations in an endemic area for hantavirus pulmonary syndrome in Argentina. *Medicina-Buenos Aires* **62**, 1–8.
- [20] Figueiredo, G., Borges, A., Campos, G., Machado, A., Saggioro, F., Sabino Júnior, G., Badra, S., Ortiz, A. & Figueiredo, L., 2010 Diagnosis of hantavirus infection in humans and rodents in Ribeirão Preto, state of São Paulo, Brazil. *Revista da Sociedade Brasileira de Medicina Tropical* **43**, 348–354.
- [21] Berger, S. *et al.*, 2010 *Hantavirus Pulmonary Syndrome: Global Status 2010 Edition*. GIDEON Informatics Inc.
- [22] Medina, R., Torres-Perez, F., Galeno, H., Navarrete, M., Vial, P., Palma, R., Ferres, M., Cook, J. & Hjelle, B., 2009 Ecology, genetic diversity, and phylogeographic structure of andes virus in humans and rodents in Chile. *Journal of virology* **83**, 2446.
- [23] Calderon, G., Pini, N., Bolpe, J., Levis, S., Mills, J., Segura, E., Guthmann, N., Cantoni, G., Becker, J., Fonollat, A. *et al.*, 1999 Hantavirus reservoir hosts associated with peridomestic habitats in Argentina. *Emerging Infectious Diseases* **5**, 792–797.
- [24] Raboni, S. M., Hoffmann, F. G., Oliveira, R. C., Teixeira, B. R., Bonvicino, C. R., Stella, V., Carstensen, S., Bordignon, J., D’Andrea, P. S., Lemos, E. R. S. *et al.*, 2009 Phylogenetic characterization of hantaviruses from wild rodents and hantavirus pulmonary syndrome cases in the state of Parana (southern Brazil). *Journal of General Virology* **90**, 2166–2171. ISSN 0022-1317. (doi:{10.1099/vir.0.011585-0}).

- [25] Suzuki, A., Bisordi, L., Levis, S., Garcia, J., Pereira, L. E., Souza, R. P., Sugahara, T. K. N., Pini, N., Enria, D. & Souza, L. T. M., 2004 Identifying rodent hantavirus reservoirs, Brazil. *Emerging Infectious Diseases* **10**, 2127–2134.
- [26] Della Valle, M., Edelstein, A., Miguel, S., Martinez, V., Cortez, J., Cacace, M., Jurgelenas, G., Estani, S. & Padula, P., 2002 Andes virus associated with hantavirus pulmonary syndrome in northern Argentina and determination of the precise site of infection. *The American Journal of Tropical Medicine and Hygiene* **66**, 713–720.
- [27] Fulhorst, C., Cajimat, M., Utrera, A., Milazzo, M. & Duno, G., 2004 Maporal virus, a hantavirus associated with the fulvous pygmy rice rat (*Oligoryzomys fulvescens*) in western Venezuela. *Virus Research* **104**, 139–144.
- [28] Hanson, J., Utrera, A. & Fulhorst, C., 2011 The delicate pygmy rice rat (*Oligoryzomys delicatus*) is the principal host of maporal virus (family Bunyaviridae, genus Hantavirus). *Vector-Borne and Zoonotic diseases* **11**, 691–696.
- [29] Fernández, J., Villagra, E., Yung, V., Tognarelli, J., Araya, P., Mora, J., Cattán, P. & Ramírez, E., 2008 Identificación de hantavirus andes en *Rattus norvegicus*. *Archivos de medicina veterinaria* **40**, 295–298.
- [30] Ehlers, B., Kuchler, J., Yasmum, N., Dural, G., Voigt, S., Schmidt-Chanasit, J., Jakel, T., Matuschka, F., Richter, D., Essbauer, S. *et al.*, 2007 Identification of novel rodent herpesviruses including the first gammaherpesvirus of *Mus musculus*. *Journal of Virology* pp. JVI–00255.
- [31] Beran, G., 1994 *Handbook of Zoonoses*, volume Section B: Viral. CRC Press, Boca Raton.
- [32] Billoir, F., de Chesse, R., Tolou, H., de Micco, P., Gould, E. & de Lamballerie, X., 2000 Phylogeny of the genus *Flavivirus* using complete coding sequences of arthropod-borne viruses and viruses with no known vector. *Journal of General Virology* **81**, 781.

- [33] Testut, P., Renard, C., Terradillos, O., VitvitskiTrepo, L., Tekaiia, F., Degott, C., Blake, J., Boyer, B. & Buendia, M., 1996 A new hepadnavirus endemic in arctic ground squirrels in Alaska. *Journal of Virology* **70**, 4210–4219. ISSN 0022-538X.
- [34] Shope, R. E., 2003 Epidemiology of other arthropod-borne flaviviruses infecting humans. *Advances in Virus Research* **61**, 373–391.
- [35] Kemp, G., 1975 Viruses other than arenaviruses from West African wild mammals. *Bulletin of the World Health Organization* **52**, 615–620.
- [36] KEMP, G., CAUSEY, O., SETZER, H. & MOORE, D., 1974 Isolation of viruses from wild mammals in West Africa, 1966-1970. *Journal of Wildlife Diseases* **10**, 279–293.
- [37] Johnson, B., Chanas, A., Shockley, P., Squires, E., Gardner, P., Wallace, C., Simpson, D., Bowen, E., Platt, G., Way, H. *et al.*, 1977 Arbovirus isolations from, and serological studies on, wild and domestic vertebrates from Kano plain, Kenya. *Transactions of the Royal Society of Tropical Medicine and Hygiene* **71**, 512–517.
- [38] McIntosh, B., Dickinson, D., Meenehan, G. & Santos, I., 1976 Culex (Eumelanomyia) rubinotus theobald as vector of banzi, germiston and witwatersrand viruses II. Infections in sentinel hamsters and wild rodents. *Journal of Medical Entomology* **12**, 641–644. ISSN 0022-2585.
- [39] Mahy, B., 2009 *The Dictionary of Virology*. Academic Press.
- [40] Holsomback, T., McIntyre, N., Nisbett, R., Strauss, R., Chu, Y., Abuzeineh, A., De La Sancha, N., Dick, C., Jonsson, C. & Morris, B., 2009 Bayou virus detected in non-oryzomyine rodent hosts: an assessment of habitat composition, reservoir community structure, and marsh rice rat social dynamics. *Journal of Vector Ecology* **34**, 9–21.
- [41] Monroe, M. C., Morzunov, S. P., Johnson, A. M., Bowen, M. D., Art-sob, H., Yates, T., Peters, C. J., Rollin, P. E., Ksiazek, T. G. & Nichol, S. T., 1999 Genetic diversity and distribution of Peromyscus-borne hantaviruses in North America. *Emerging Infectious Diseases* **5**, 75–86.
- [42] Torrez-Martinez, N., Bharadwaj, M., Goade, D., Delury, J., Moran, P., Hicks, B., Nix, B., Davis, J. & Hjelle, B., 1998 Bayou virus-associated

- hantavirus pulmonary syndrome in eastern Texas: identification of the rice rat, *Oryzomys palustris*, as reservoir host. *Emerging Infectious Diseases* **4**, 105.
- [43] Cajimat, M., Milazzo, M., Hess, B., Rood, M. & Fulhorst, C., 2007 Principal host relationships and evolutionary history of the North American arenaviruses. *Virology* **367**, 235–243.
 - [44] Fulhorst, C., Bennett, S., Milazzo, M., Murray Jr, H., Webb Jr, J., Cajimat, M. & Bradley, R., 2002 Bear canyon virus: an arenavirus naturally associated with the california mouse (*Peromyscus californicus*). *Emerging Infectious Diseases* **8**, 717.
 - [45] Magoffin, D. E., Mackenzie, J. S. & Wang, L.-F., 2007 Genetic analysis of J-virus and Beilong virus using minireplicons. *Virology* **364**, 103–111. ISSN 0042-6822. (doi:{10.1016/j.virol.2007.01.045}).
 - [46] Li, Z., Yu, M., Zhang, H., Magoffin, D. E., Jack, P. J. M., Hyatt, A., Wang, H. Y. & Wang, L. F., 2006 Beilong virus, a novel paramyxovirus with the largest genome of non-segmented negative-stranded RNA viruses. *Virology* **346**, 219–228.
 - [47] Rollin, P., Ksiazek, T., Elliott, L., Ravkov, E., Martin, M., Morzunov, S., Livingstone, W., Monroe, M., Glass, G., Ruo, S. *et al.*, 1995 Isolation of Black Creek Canal virus, a new hantavirus from *Sigmodon hispidus* in Florida. *Journal of medical virology* **46**, 35–39.
 - [48] Mills, J. N., 1999 Evidence of hantavirus infection in *Microtus ochrogaster* in St. Louis county, Missouri. *Transactions of the Missouri Academy of Science* .
 - [49] Howerth, E., Stallknecht, D. & Kirkland, P., 2001 Bluetongue, epizootic hemorrhagic disease, and other orbivirus-related diseases. *Infectious Diseases of Wild Mammals* pp. 77–97.
 - [50] Kinnunen, P. M., Billich, C., Ek-Kommonen, C., Henttonen, H., Kallio, E. R. K., Niemimaa, J., Palva, A., Staeheli, P., Vaheri, A. & Vapalahti, O., 2007 Serological evidence for Borna disease virus infection in humans, wild rodents and other vertebrates in Finland. *Journal of Clinical Virology* **38**, 64–69. ISSN 1386-6532. (doi:{10.1016/j.jcv.2006.10.003}).

- [51] Monath, T., Henderson, B. & Kirya, G., 1972 Characterization of viruses (Witwatersrand and Germiston) isolated from mosquitoes and rodents collected near Lunyo Forest, Uganda, in 1968. *Archives of Virology* **38**, 125–132. ISSN 0304-8608.
- [52] Henderson, B., McCrae, A., Kirya, B., Ssenkubuge & Sempala, S., 1972 Arbovirus epizootics involving man, mosquitoes and vertebrates at Lunyo, Uganda 1968. *Annals of Tropical Medicine and Parasitology* **66**, 343–355.
- [53] McLean, R., Kirk, L., Shriner, R., Cook, P., Myers, E., Gill, J. & Campos, E., 1996 The role of deer as a possible reservoir host of potosi virus, a newly recognized arbovirus in the United States. *Journal of Wildlife Diseases* **32**, 444–452.
- [54] Vincent, M. J., Quiroz, E., Gracia, F., Sanchez, A. J., Ksiazek, T. G., Kitsutani, P. T., Ruedas, L. A., Tinnin, D. S., Caceres, L., Garcia, A. *et al.*, 2000 Hantavirus pulmonary syndrome in Panama: Identification of novel hantaviruses and their likely reservoirs. *Virology* **277**, 14–19.
- [55] Armien, B., Pascale, J. M., Bayard, V., Munoz, C., Mosca, I., Guerrero, G., Armien, A., Quiroz, E., Castillo, Z., Zaldivar, Y. *et al.*, 2004 High seroprevalence of hantavirus infection on the Azuero peninsula of Panama. *American Journal of Tropical Medicine and Hygiene* **70**, 682–687.
- [56] Mitchell, C., Lvov, S., Savage, H., Calisher, C., Smith, G., Lvov, D. & Gubler, D., 1993 Vector and host relationships of California serogroup viruses in western Siberia. *The American Journal of Tropical Medicine and Hygiene* **49**, 53–62.
- [57] Ksiazek, T., Yuill, T. *et al.*, 1977 Viremia and antibody response to la crosse virus in sentinel gray squirrels (*Sciurus carolinensis*) and chipmunks *Tamias striatus*). *The American Journal of Tropical Medicine and Hygiene* **26**, 815.
- [58] Moulton, D. & Thompson, W., 1971 California group virus infections in small, forest-dwelling mammals of Wisconsin. Some ecological considerations. *The American Journal of Tropical Medicine and Hygiene* **20**, 474–482.

- [59] Fulhorst, C., Monroe, M., Salas, R., Duno, G., Utrera, A., Ksiazek, T., Nichol, S., de Manzione, N., Tovar, D. & Tesh, R., 1997 Isolation, characterization and geographic distribution of Cano Delgadito virus, a newly discovered South American hantavirus (family Bunyaviridae). *Virus research* **51**, 159–171.
- [60] Fulhorst, C., Bowen, M., Salas, R., Duno, G., Utrera, A., Ksiazek, T., De Manzione, N., De Miller, E., Vasquez, C., Peters, C. *et al.*, 1999 Natural rodent host associations of guanarito and pirital viruses (family Arenaviridae) in central Venezuela. *The American Journal of Tropical Medicine and Hygiene* **61**, 325–330.
- [61] Milazzo, M., Cajimat, M., Hanson, J., Bradley, R., Quintana, M., Sherman, C., Velasquez, R. & Fulhorst, C., 2006 Catacamas virus, a hantaviral species naturally associated with *Oryzomys couesi* (coues’oryzomys) in Honduras. *The American Journal of Tropical Medicine and Hygiene* **75**, 1003–1010.
- [62] Cajimat, M., Milazzo, M., Bradley, R. & Fulhorst, C., 2007 Catarina virus, an arenaviral species principally associated with *Neotoma micropus* (southern plains woodrat) in Texas. *The American Journal of Tropical Medicine and Hygiene* **77**, 732.
- [63] Hsiung, G. & Kaplow, L., 1969 Herpeslike virus isolated from spontaneously degenerated tissue culture derived from leukemia-susceptible guinea pigs. *Journal of virology* **3**, 355.
- [64] Roizman, B. & Baines, J., 1991 The diversity and unity of herpesviridae. *Comparative Immunology, Microbiology and Infectious Diseases* **14**, 63–79.
- [65] Bia, F., Summers, W., Fong, C. & Hsiung, G., 1980 New endogenous herpesvirus of guinea pigs: biological and molecular characterization. *Journal of virology* **36**, 245–253.
- [66] Yoo, B., Lee, D., Park, S., Park, J., Kim, C., Lee, H., Seo, J., Park, K. & Ryu, W., 1999 A novel parvovirus isolated from Manchurian chipmunks. *Virology* **253**, 250–258. ISSN 0042-6822.
- [67] McLean, R., Carey, A., Kirk, L. & Francy, D., 1993 Ecology of porcupines (*Erethizon dorsatum*) and colorado tick fever virus in Rocky

Mountain National Park, 1975-1977. *Journal of medical entomology* **30**, 236–238.

- [68] Bowen, G., McLean, R., Shriner, R., Franc, D., Pokorny, K., Trimble, J., Bolin, R., Barnes, A., Calisher, C. & Muth, D., 1981 The ecology of Colorado tick fever in Rocky Mountain National Park in 1974. II. infection in small mammals. *The American Journal of Tropical Medicine and Hygiene* **30**, 490.
- [69] Lane, R., Emmons, R., Devlin, V., Dondero, D. & Nelson, B., 1982 Survey for evidence of Colorado tick fever virus outside of the known endemic area in California. *The American Journal of Tropical Medicine and Hygiene* **31**, 837.
- [70] BURGDORFER, W. & EKLUND, C., 1959 Studies on the ecology of Colorado tick fever virus in western Montana. *American Journal of Epidemiology* **69**, 127–137.
- [71] Johnson, A. J., Karabatsos, N. & Lanciotti, R. S., 1997 Detection of Colorado tick fever virus by using reverse transcriptase PCR and application of the technique in laboratory diagnosis. *Journal of Clinical Microbiology* **35**, 1203–1208.
- [72] Calisher, C., Davie, J., Coleman, P., Lord, R. & Work, T., 1969 Cowbone Ridge virus, a new group B arbovirus from south Florida. *American Journal of Epidemiology* **89**, 211. ISSN 0002-9262.
- [73] Essbauer, S. & Meyer, H., 2007 Genus orthopoxvirus: cowpox virus. *Poxviruses* pp. 75–88.
- [74] Essbauer, S., Hartnack, S., Misztela, K., Kießling-Tsalos, J., Bäumler, W. & Pfeffer, M., 2009 Patterns of orthopox virus wild rodent hosts in South Germany. *Vector-Borne and Zoonotic Diseases* **9**, 301–311.
- [75] Chantrey, J., Meyer, H., Baxby, D., Begon, M., Bown, K., Hazel, S., Jones, T., Montgomery, W., Bennett, M. *et al.*, 1999 Cowpox: reservoir hosts and geographic range. *Epidemiology and Infection* **122**, 455–460.
- [76] Charbonnel, N., Deter, J., Chaval, Y., Laakkonen, J., Henttonen, H., Voutilainen, L., Vapalahti, O., Vaheri, A., Morand, S. & Cosson, J.,

- 2008 Serological evidence of viruses naturally associated with the montane water vole (*Arvicola scherman*) in eastern France. *Vector-Borne and Zoonotic Diseases* **8**, 763–768.
- [77] Hentschke, J., Meyer, H., Wittstatt, U., Ochs, A., Burkhardt, S. & Aue, A., 1999 Kuhpocken bei kanadischen bibern (*Castor fiber canadensis*) und katzenbaren (*Ailurus fulgens*). *Tierärztliche Umschau* **54**.
 - [78] Tryland, M., Sandvik, T., Mehl, R., Bennett, M., Traavik, T. & Olsvik, O., 1998 Serosurvey for orthopoxviruses in rodents and shrews from norway. *Journal of Wildlife Diseases* **34**, 240–250.
 - [79] Crouch, A., Baxby, D., McCracken, C., Gaskell, R., Bennett, M. *et al.*, 1995 Serological evidence for the reservoir hosts of cowpox virus in british wildlife. *Epidemiology and Infection* **115**, 185.
 - [80] Sandvik, T., Tryland, M., Hansen, H., Mehl, R., Moens, U., Olsvik, O. & Traavik, T., 1998 Naturally occurring orthopoxviruses: potential for recombination with vaccine vectors. *Journal of Clinical Microbiology* **36**, 2542.
 - [81] Wolfs, T., Wagenaar, J., Niesters, H. & Osterhaus, A., 2002 Rat-to-human transmission of cowpox infection. *Emerging Infectious Diseases* **8**, 1495.
 - [82] Marennikova, S., Ladnyj, I., Ogorodnikova, Z., Shelukhina, E. & Maltseva, N., 1978 Identification and study of a poxvirus isolated from wild rodents in Turkmenia. *Archives of Virology* **56**, 7–14.
 - [83] Shepherd, A., Swanepoel, R., Shepherd, S., McGillivray, G. & Searle, L., 1987 Antibody to crimean-congo hemorrhagic fever virus in wild mammals from southern Africa. *American Journal of Tropical Medical and Hygiene* **36**, 133–142.
 - [84] Charrel, R., Feldmann, H., Fulhorst, C., Khelifa, R., Chesse, R. & Lamballerie, X., 2002 Phylogeny of new world arenaviruses based on the complete coding sequences of the small genomic segment identified an evolutionary lineage produced by intrasegmental recombination. *Biochemical and biophysical research communications* **296**, 1118–1124.

- [85] Nagamine, B., Jones, L., Tellgren-Roth, C., Cavender, J. & Bratanich, A., 2011 A novel gammaherpesvirus isolated from a black-tailed prairie dog (*Cynomys ludovicianus*). *Archives of Virology* pp. 1–6.
- [86] Cao, Z., Zuo, S., Gong, Z., Zhan, L., Bian, C., Zhang, P., Yang, H., Zhang, J., Zhao, Q., Jia, N. *et al.*, 2010 Genetic analysis of a hantavirus strain carried by *Niviventer confucianus* in Yunnan province, China. *Virus Research* **153**, 157–160.
- [87] de Thoisy, B., Dussart, P. & Kazanji, M., 2004 Wild terrestrial rain-forest mammals as potential reservoirs for flaviviruses (yellow fever, dengue 2 and st louis encephalitis viruses) in French Guiana. *Transactions of the Royal Society of Tropical Medicine and Hygiene* **98**, 409–412.
- [88] Plyusnin, A., 2002 Genetics of hantaviruses: implications to taxonomy. *Archives of virology* **147**, 665–682.
- [89] Papa, A., Nemirov, K., Henttonen, H., Niemimaa, J., Antoniadis, A., Vaheri, A., Plyusnin, A. & Vapalahti, O., 2001 Isolation of dobrava virus from *Apodemus flavicollis* in Greece. *Journal of Clinical Microbiology* **39**, 2291–2293.
- [90] Libikova, H., 1957 Natural foci of the western type of north american equine encephalomyelitis (WEE) in Czechoslovakia. I. Isolation and identification of viruses of WEE from ticks and small mammals in East Slovakia and serological investigations]. *Acta Virologica* **1**, 93.
- [91] Horsfall, W. R., 1976 Eastern equine encephalomyelitis: summary of the literature before 1976. leaflet number 5, Department of Entomology, University of Illinois, Urbana, Illinois, 34 pp .
- [92] Karstad, L., Vadlamudi, S., Hanson, R., Trainer Jr, D. & Lee, V., 1960 Eastern equine encephalitis studies in Wisconsin. *The Journal of Infectious Diseases* pp. 53–59.
- [93] Day, J., Stark, L., Zhang, J., Ramsey, A. & Scott, T., 1996 Antibodies to arthropod-borne encephalitis viruses in small mammals from southern Florida. *Journal of Wildlife Diseases* **32**, 431.

- [94] Goldfield, M., Sussman, O., Black, H., Horman, J., Taylor, B., Carter, W., Kerlin, R. & Birne, H., 1968 Arbovirus infection of animals in New Jersey. *Journal of the American Veterinary Medical Association* **153**, 1780.
- [95] Morvan, J., Deubel, V., Gounon, P., Nakoune, E., Barriere, P., Murri, S., Perpete, O., Selekon, B., Coudrier, D., Gautier-Hion, A. *et al.*, 1999 Identification of ebola virus sequences present as RNA or DNA in organs of terrestrial small mammals of the Central African Republic. *Microbes and Infection* **1**, 1193–1201.
- [96] Kaplan, C., Healing, T., Evans, N., Healing, L. & Prior, A., 1980 Evidence of infection by viruses in small british field rodents. *The Journal of Hygiene* **84**, 285–294.
- [97] Esteban, D. & Buller, R., 2005 Ectromelia virus: the causative agent of mousepox. *Journal of General Virology* **86**, 2645.
- [98] Rawlings, J., Torrez-Martinez, N., Neill, S., Moore, G., Hicks, B., Pichuantes, S., Nguyen, A., Bharadwaj, M., Hjelle, B. *et al.*, 1996 Cocirculation of multiple hantaviruses in Texas, with characterization of the small (s) genome of a previously undescribed virus of cotton rats (*Sigmodon hispidus*). *The American Journal of Tropical Medicine and Hygiene* **55**, 672.
- [99] Bennett, S.G., Webb, J., J.P., Madon, M.B., Childs, J.E., Ksiazek, T.G., Torrez-Martinez, N. & Hjelle, B., 1999 Hantavirus (Bunyaviridae) infections in rodents from Orange and San Diego counties, California. *American Journal of Tropical Medicine and Hygiene* **60**, 75–84.
- [100] Amaddeo, D., Cardeti, G. & Autorino, G., 1995 Isolation of encephalomyocarditis virus from dormice (*Myoxus glis*) in Italy. *Journal of Wildlife Diseases* **31**, 238–242.
- [101] Knowles, N., Dickinson, N., Wilsden, G., Carra, E., Brocchi, E. & De Simone, F., 1998 Molecular analysis of encephalomyocarditis viruses isolated from pigs and rodents in Italy. *Virus Research* **57**, 53–62. ISSN 0168-1702.

- [102] Tesh, R. & Wallace, G., 1978 Observations on the natural history of encephalomyocarditis virus. *The American Journal of Tropical Medicine and Hygiene* **27**, 133.
- [103] Billinis, C., 2009 Encephalomyocarditis virus infection in wildlife species in Greece. *Journal of Wildlife Diseases* **45**, 522–526.
- [104] Ghosh, S. & Rajagopalan, P., 1973 Encephalomyocarditis virus activity in *Mus booduga* (gray) in Barur village (1961-1962), Sagar Kfd area, Mysore state, India. *Indian Journal of Medical Research* **61**, 989–991.
- [105] Bollo, E., Pregel, P., Gennero, S., Pizzoni, E., Rosati, S., Nebbia, P. & Biolatti, B., 2003 Health status of a population of nutria (*Myocastor coypus*) living in a protected area in Italy. *Research in Veterinary Science* **75**, 21–25.
- [106] Jungeblut, C. & Sanders, M., 1940 Studies of a murine strain of poliomyelitis virus in cotton rats and white mice. *The Journal of Experimental Medicine* **72**, 407.
- [107] Wohlsein, P., Lehmbecker, A., Spitzbarth, I., Algermissen, D., Baumgartner, W., Boer, M., Kummrow, M., Haas, L. & Grummer, B., 2010 Fatal epizootic equine herpesvirus 1 infections in new and unnatural hosts. *Veterinary Microbiology* .
- [108] Rector, A., Tachezy, R., Van Doorslaer, K., MacNamara, T., Burk, R., Sundberg, J. & Van Ranst, M., 2005 Isolation and cloning of a papillomavirus from a North American porcupine by using multiply primed rolling-circle amplification: the *Erethizon dorsatum* papillomavirus type 1. *Virology* **331**, 449–456.
- [109] Gonzalez, J., Emonet, S., Lamballerie, X. & Charrel, R., 2007 Arenaviruses. *Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances and Consequences of Cross-Species Transmission* pp. 253–288.
- [110] Coulibaly-N’Golo, D., Allali, B., Kouassi, S., Fichet-Calvet, E., Becker-Ziaja, B., Rieger, T., Ölschläger, S., Dosso, H., Denys, C., ter Meulen, J. *et al.*, 2011 Novel arenavirus sequences in *Hylomyscus* sp. and *Mus* (*Nannomys*) *setulosus* from Côte d’Ivoire: Implications for evolution of arenaviruses in Africa. *PloS one* **6**, e20893.

- [111] Ranck, R. S., Cullen, J. M., Waggle, K. S. & Marion, P. L., 2008 Harderian gland neoplasms in captive, wild-caught Beechey ground squirrels (*Spermophilus beecheyi*). *Veterinary Pathology* **45**, 388–392. ISSN 0300-9858.
- [112] Marion, P., Oshiro, L., Regnery, D., Scullard, G. & Robinson, W., 1980 A virus in beechey ground squirrels that is related to hepatitis b virus of humans. *Proceedings of the National Academy of Sciences* **77**, 2941.
- [113] Tennant, B., Mrosovsky, N., McLean, K., Cote, P., Korba, B., Engle, R., Gerin, J., Wright, J., Michener, G., Uhl, E. *et al.*, 1991 Hepatocellular carcinoma in richardson’s ground squirrels (*Spermophilus richardsonii*): Evidence for association with hepatitis b-like virus infection. *Hepatology* **13**, 1215–1221.
- [114] Minuk, G., Shaffer, E., Hoar, D. & Kelly, J., 1986 Ground squirrel hepatitis virus (GSHV) infection and hepatocellular carcinoma in the Canadian Richardson ground squirrel (*Spermophilus richardsonii*). *Liver* **6**, 350–356.
- [115] Salas, R., Pacheco, M., Ramos, B., Taibo, M., Jaimes, E., Vasquez, C., Querales, J., de Manzione, N., Godoy, O., Betancourt, A. *et al.*, 1991 Venezuelan haemorrhagic fever. *The Lancet* **338**, 1033–1036.
- [116] Simmons, J., Purdy, G., Franklin, C., Trottier, P., Churchill, A., Russell, R., Besch-Williford, C. & Riley, L., 2002 Characterization of a novel parainfluenza virus, caviid parainfluenza virus 3, from laboratory guinea pigs (*Cavia porcellus*). *Comparative Medicine* **52**, 548–554.
- [117] of Laboratory Animal Resources Committee on Infectious Diseases, N. R. C. I., 1991 *Infectious diseases of mice and rats: a report of the Institute of Animal Resources Committee on Infectious Diseases of Mice and Rats*. National Academy Press.
- [118] Buchen-Osmond C., 2003 The universal virus database ICTVDB. *Computing in Science and Engineering* **5**, 16–25.
- [119] Iwasaki, T., Maeda, H., Kameyama, Y., Moriyama, M., Kanai, S. & Kurata, T., 1997 Presence of a novel hamster oral papillomavirus in dysplastic lesions of hamster lingual mucosa induced by application of

dimethylbenzanthracene and excisional wounding: molecular cloning and complete nucleotide sequence. *Journal of General Virology* **78**, 1087.

- [120] Besselsen, D., Gibson, S., Besch-Williford, C., Purdy, G., Knowles, R., Wagner, J., Pintel, D., Franklin, C., Hook, R. & Riley, L., 1999 Natural and experimentally induced infection of syrian hamsters with a newly recognized parvovirus. *Laboratory Animal Science* **49**, 308–312.
- [121] Scherneck, S., Ulrich, R. & Feunteun, J., 2001 The hamster polyomavirus—a brief review of recent knowledge*. *Virus Genes* **22**, 93–101.
- [122] Lee, H., Lee, P. & Johnson, K., 1978 Isolation of the etiologic agent of Korean hemorrhagic fever. *Journal of Infectious Diseases* **137**, 298.
- [123] Arankalle, V., Joshi, M., Kulkarni, A., Gandhe, S., Chobe, L., Rautmare, S., Mishra, A. & Padbidri, V., 2001 Prevalence of anti-hepatitis E virus antibodies in different Indian animal species. *Journal of Viral Hepatitis* **8**, 223–227.
- [124] Yanagihara, R., Svedmyr, A., Amyx, H., Lee, P., Goldgaber, D., Gajdusek, D., Gibbs, C. & Ström, K., 1984 Isolation and propagation of nephropathia epidemica virus in bank voles. *Scandinavian Journal of Infectious Diseases* **16**, 225–228.
- [125] Ezeifeke, G., Umoh, J., Ezeokoli, C. & Ezealor, A., 1987 Prevalence of ife virus infection in wild rodents and birds from Zaria, Nigeria. *Journal of Wildlife Diseases* **23**, 663–665.
- [126] de Bellocq, J., Borremans, B., Katakweba, A., Makundi, R., Baird, S., Becker-Ziaja, B., Günther, S. & Leirs, H., 2010 Sympatric occurrence of 3 arenaviruses, Tanzania. *Emerging Infectious Diseases* **16**.
- [127] Gonzalez, J., Georges, A., Kiley, M., Meunier, D., Peters, C. & McCormick, J., 1986 Evolutionary biology of a Lassa virus complex. *Medical Microbiology and Immunology* **175**, 157–159. ISSN 0300-8584.
- [128] Digoutte, J., 1978 Ippy (IPPY): Strain: Dak An B 188 d. *The American Journal of Tropical Medicine and Hygiene* **27**, 389.

- [129] Song, W., Torrez-Martinez, N., Irwin, W., Harrison, F., Davis, R., Ascher, M., Jay, M. & Hjelle, B., 1995 Isla vista virus: a genetically novel hantavirus of the California vole *Microtus californicus*. *Journal of General Virology* **76**, 3195.
- [130] Jun, M., Karabatsos, N. & Johnson, R., 1977 A new mouse paramyxovirus (J virus). *The Australian Journal of Experimental Biology and Medical Science* **55**, 645.
- [131] Mills, J., Ellis, B., McKee Jr, K., Ksiazek, T., Oro, J., Maiztegui, J., Calderon, G., Peters, C. & Childs, J., 1991 Junin virus activity in rodents from endemic and nonendemic loci in Central Argentina. *The American Journal of Tropical Medicine and Hygiene* **44**, 589.
- [132] Andrews, C., 1977 *Viral and Bacterial zoonoses*.
- [133] Sabattini, M., González, L. & Crespo, J., 1967 Aislamiento de virus junín en roedores silvestres de la provincia de Córdoba. *Actas Seg. lorn. Entomoemd. Arg* **3**, 365.
- [134] Parodi, A., Rugiero, H., Greenway, D., Mettler, N., Martinez, A., Boxaca, M. & de la Barrera, J., 1959 Aislamiento del virus junín (fhe) de los ácaros de la zona epidémica [*Echinolaelaps echidninus* (berlese)]. *Prensa Med Argent* **46**, 2242–2244.
- [135] Chu, Y. K., Goodin, D., Owen, R. D., Koch, D. & Jonsson, C. B., 2009 Sympatry of hantavirus strains, paraguay 2003-2007. *Emerging Infectious Diseases* **15**, 1977–1980.
- [136] Oliveira, R. C., Teixeira, B. R., Mello, F. C. A., Pereira, A. P., Duarte, A. S., Bonaldo, M. C., Bonvicino, C. R., D’Andrea, P. S. & Lemos, E. R. S., 2009 Genetic characterization of a Juquitiba-like viral lineage in *Oligoryzomys nigripes* in Rio de Janeiro, Brazil. *Acta Tropica* **112**, 212–218. ISSN 0001-706X.
- [137] Delfraro, A., Tomé, L., D’Elía, G., Clara, M., Achával, F., Russi, J. & Rodonz, J., 2008 Juquitiba-like hantavirus from 2 nonrelated rodent species, Uruguay. *Emerging Infectious Diseases* **14**, 1447.

- [138] Varelas-Wesley, I., Calisher, C. *et al.*, 1982 Antigenic relationships of flaviviruses with undetermined arthropod-borne status. *The American Journal of Tropical Medicine and Hygiene* **31**, 1273.
- [139] Hörling, J., Chizhikov, V., Lundkvist, Å., Jonsson, M., Ivanov, L., Dekonenko, A., Niklasson, B., Dzagurova, T., Peters, C., Tkachenko, E. *et al.*, 1996 Khabarovsk virus: a phylogenetically and serologically distinct hantavirus isolated from *Microtus fortis* trapped in far-east Russia. *Journal of General Virology* **77**, 687.
- [140] Zou, Y., Wang, J., Gaowa, H., Yao, L., Hu, G., Li, M., Chen, H., Plyusnin, A., Shao, R. & Zhang, Y., 2008 Isolation and genetic characterization of hantaviruses carried by *Microtus voles* in China. *Journal of Medical Virology* **80**, 680–688.
- [141] Plyusnina, A., Laakkonen, J., Niemimaa, J., Nemirov, K., Muruyeva, G., Pohodiev, B., Lundkvist, A., Vaheri, A., Henttonen, H., Vapalahti, O. *et al.*, 2008 Genetic analysis of hantaviruses carried by *Myodes* and *Microtus* rodents in Buryatia. *Virol J* **5**.
- [142] Easterbrook, J. D., Kaplan, J. B., Glass, G. E. & Klein, S. L., 2008 A survey of rodent-borne pathogens carried by wild-caught Norway rats: a potential threat to laboratory rodent colonies. *Laboratory Animals* **42**, 92–98.
- [143] Kilham, L. & Olivier, L., 1959 A latent virus of rats isolated in tissue culture. *Virology* **7**, 428–437.
- [144] Charrel, R. N. & de Lamballerie, X., 2010 Zoonotic aspects of arenavirus infections. *Veterinary Microbiology* **140**, 213–220. (doi: {10.1016/j.vetmic.2009.08.027}).
- [145] Lecompte, E., Ter Meulen, J., Emonet, S., Daffis, S. & Charrel, R., 2007 Genetic identification of Kodoko virus, a novel arenavirus of the African pigmy mouse (*Mus Nannomys minutoides*) in West Africa. *Virology* **364**, 178–183. ISSN 0042-6822.
- [146] Karabatsos, N., on Arthropod-Borne Viruses. Subcommittee on Information Exchange, A. C., of Tropical Medicine, A. S. & Hygiene, 1985. International catalogue of arboviruses: including certain other viruses of vertebrates.

- [147] Traore-Lamizana, M., Fontenille, D., Diallo, M., Ba, Y., Zeller, H., Mondo, M., Adam, F., Thonon, J. & Maiga, A., 2001 Arbovirus surveillance from 1990 to 1995 in the Barkedji area (Ferlo) of Senegal, a possible natural focus of Rift Valley fever virus. *Journal of Medical Entomology* **38**, 480–492. ISSN 0022-2585.
- [148] Webb, H., 1965 Kyasanur forest disease virus in three species of rodents. *Transactions of the Royal Society of Tropical Medicine and Hygiene* **59**, 205–211. ISSN 0035-9203.
- [149] Mehla, R., Kumar, S., Yadav, P., Barde, P., Yergolkar, P., Erickson, B., Carroll, S., Mishra, A., Nichol, S. & Mourya, D., 2009 Recent ancestry of Kyasanur forest disease virus. *Emerging Infectious Diseases* **15**, 1431–1437.
- [150] Pattnaik, P., 2006 Kyasanur forest disease: an epidemiological view in India. *Reviews in Medical Virology* **16**, 151–165.
- [151] Levis, S., Garcia, J., Pini, N., Calderon, G., Ramirez, J., Bravo, D., JEOR, S., Ripoll, C., Bego, M., Lozano, E. *et al.*, 2004 Hantavirus pulmonary syndrome in northwestern Argentina: circulation of laguna negra virus associated with *Calomys callosus*. *The American Journal of Tropical Medicine and Hygiene* **71**, 658–663.
- [152] Johnson, A., Bowen, M., Ksiazek, T., Williams, R., Bryan, R., Mills, J., Peters, C. & Nichol, S., 1997 Laguna negra virus associated with HPS in western Paraguay and Bolivia. *Virology* **238**, 115–127.
- [153] Monath, T., Newhouse, V., Kemp, G., Setzer, H. & Cacciapuoti, A., 1974 Lassa virus isolation from *Mastomys natalensis* rodents during an epidemic in Sierra Leone. *Science* **185**, 263.
- [154] Sanchez, A., Abbott, K. & Nichol, S., 2001 Genetic identification and characterization of limestone canyon virus, a unique *Peromyscus*-borne hantavirus. *Virology* **286**, 345–353.
- [155] Hauffe, H. C., Niklasson, B., Olsson, T., Bianchi, A., Rizzoli, A. & Klitz, W., 2010 Ljungar Virus Detected in Bank Voles (*Myodes glareolus*) and Yellow-Necked Mice (*Apodemus flavicollis*) from Northern Italy. *Journal of Wildlife Diseases* **46**, 262–266. ISSN 0090-3558.

- [156] Niklasson, B., Nyholm, E., Feinstein, R., Samsioe, A. & Hornfeldt, B., 2006 Diabetes and myocarditis in voles and lemmings at cyclic peak densities—induced by Ljungan virus? *Oecologia* **150**, 1–7.
- [157] Main, A., Shope, R. & Wallis, R., 1976 Characterization of Whitney’s Clethrionomy gapperi virus isolates from Massachusetts. *Journal of Wildlife Diseases* **12**, 154–164.
- [158] Niklasson, B., Kinnunen, L., Hörnfeldt, B., Hörling, J., Benemar, C., Olof Hedlund, K., Matskova, L., Hyypiä, T. & Winberg, G., 1999 A new picornavirus isolated from bank voles (Clethrionomys glareolus). *Virology* **255**, 86–93.
- [159] Zhang, Y., Yuan, J., Yang, X., Zhou, J., Yang, W., Peng, C., Zhang, H. & Shi, Z., 2011 A novel hantavirus detected in yunnan red-backed vole (Eothenomys miletus) in China. *Journal of General Virology* **92**, 1454–1457.
- [160] Tagliapietra, V., Rosà, R., Hauffe, H., Laakkonen, J., Voutilainen, L., Vapalahti, O., Vaheri, A., Henttonen, H. & Rizzoli, A., 2009 Spatial and temporal dynamics of lymphocytic choriomeningitis virus in wild rodents, northern Italy. *Emerging Infectious Diseases* **15**, 1019.
- [161] Ledesma, J., Fedele, C., Carro, F., Lledó, L., Sánchez-Seco, M., Tenorio, A., Soriguer, R., Saz, J., Domínguez, G., Rosas, M. *et al.*, 2009 Independent lineage of lymphocytic choriomeningitis virus in wood mice (Apodemus sylvaticus), Spain. *Emerging Infectious Diseases* **15**, 1677.
- [162] Laakkonen, J., Kallio-Kokko, H., Öktem, M., Blasdel, K., Plyusnina, A., Niemimaa, J., Karataş, A., Plyusnin, A., Vaheri, A. & Henttonen, H., 2006 Serological survey for viral pathogens in turkish rodents. *Journal of Wildlife Diseases* **42**, 672–676.
- [163] Parker, J., Igel, H., Reynolds, R., Lewis Jr, A. & Rowe, W., 1976 Lymphocytic choriomeningitis virus infection in fetal, newborn, and young adult Syrian hamsters (Mesocricetus auratus). *Infection and Immunity* **13**, 967–981.
- [164] Armstrong, C., Wallace, J., ROSE, L. *et al.*, 1940 Lymphocytic choriomeningitis. gray mice, Mus musculus, a reservoir for the infection. *Public Health Reports* **55**, 1222–1229.

- [165] Greenwood, A. & Sanchez, S., 2002 Serological evidence of murine pathogens in wild grey squirrels (*Sciurus carolinensis*) in North Wales. *Veterinary Record* **150**, 543. ISSN 2042-7670.
- [166] Blasdell, K., Becker, S., Hurst, J., Begon, M. & Bennett, M., 2008 Host range and genetic diversity of arenaviruses in rodents, United Kingdom. *Emerging Infectious Diseases* **14**, 1455.
- [167] Johnson, K., Kuns, M., Mackenzie, R., Webb, P. & Yunker, C., 1966 Isolation of machupo virus from wild rodent *Calomys callosus*. *The American Journal of Tropical Medicine and Hygiene* **15**, 103.
- [168] Hansen, A., Thomsen, P. & Jensen, H., 1997 A serological indication of the existence of a guinea pig poliovirus. *Laboratory Animals* **31**, 212–218.
- [169] Descoteaux, J. & Mihok, S., 1986 Serologic study on the prevalence of murine viruses in a population of wild meadow voles (*Microtus pennsylvanicus*). *Journal of Wildlife Diseases* **22**, 314–319.
- [170] Monath, T., 1989 *The Arboviruses: Epidemiology And Ecology*. CRC Press.
- [171] Causey, O., Causey, C., Maroja, O. & Macedo, D., 1961 The isolation of arthropod-borne viruses, including members of two hitherto undescribed serological groups, in the Amazon region of Brazil. *The American Journal of Tropical Medicine and Hygiene* **10**, 227.
- [172] Nunes, M., Travassos da Rosa, A., Weaver, S., Tesh, R. & Vasconcelos, P., 2005 Molecular epidemiology of group C viruses (Bunyaviridae, Orthobunyavirus) isolated in the Americas. *Journal of Virology* **79**, 10561. ISSN 0022-538X.
- [173] Galindo, P., Srihongse, S., De Rodaniche, E. & Grayson, M., 1966 An ecological survey for arboviruses in Almirante, Panama, 1959–1962. *The American Journal of Tropical Medicine and Hygiene* **15**, 385–400.
- [174] Nafz, J., Schäfer, K., Chen, S., Bravo, I., Ibberson, M., Nindl, I., Stockfleth, E. & Rösl, F., 2008 A novel rodent papillomavirus isolated from anogenital lesions in its natural host. *Virology* **374**, 186–197.

- [175] Van Doorslaer, K., Rector, A., Jenson, A., Sundberg, J., Van Ranst, M. & Ghim, S., 2007 Complete genomic characterization of a murine papillomavirus isolated from papillomatous lesions of a european harvest mouse (*Micromys minutus*). *Journal of General Virology* **88**, 1484–1488.
- [176] Müller, H. & Gissmann, L., 1978 *Mastomys natalensis* papilloma virus (MNPV), the causative agent of epithelial proliferations: Characterization of the virus particle. *Journal of General Virology* **41**, 315–323.
- [177] de Thoisy, B., Gardon, J., Salas, R., Morvan, J. & Kazanji, M., 2003 Mayaro virus in wild mammals, French Guiana. *Emerging Infectious Diseases* **9**, 1326.
- [178] Crawford, L., 1966 A minute virus of mice. *Virology* **29**, 605–612.
- [179] Williams, E. & Barker, I., 2001 *Infectious diseases of wild mammals*. Iowa State University Press, Ames.
- [180] Saluzzo, J., Rollin, P., Dauguet, C., Digoutte, J., Georges, A. & Sureau, P., 1984 Premier isolement du virus mokola à partir d’un rongeur (*Lophuromys sikapusi*). In *Annales de l’Institut Pasteur. Virologie*, volume 135, pp. 57–61. Elsevier.
- [181] Moloney, G., Cowdell, R. & Lewis, C., 1966 Malignant pheochromocytoma of the bladder. *British Journal of Urology* **38**, 461–470.
- [182] Hutin, Y., Williams, R., Malfait, P., Pebody, R., Loparev, V., Ropp, S., Rodriguez, M., Knight, J., Tshioko, F., Khan, A. *et al.*, 2001 Outbreak of human monkeypox, democratic republic of congo, 1996 to 1997. *Emerging Infectious Diseases* **7**, 434.
- [183] Song, J., Baek, L., Gavrilovskaya, I., Mackow, E., Hjelle, B. & Yanagihara, R., 1996 Sequence analysis of the complete s genomic segment of a newly identified hantavirus isolated from the white-footed mouse (*Peromyscus leucopus*): phylogenetic relationship with other sigmodontine rodent-borne hantaviruses. *Virus Genes* **12**, 249–256.
- [184] Wulff, H., McIntosh, B., Hamner, D. & Johnson, K., 1977 Isolation of an arenavirus closely related to lassa virus from *Mastomys natalensis*

in south-east Africa. *Bulletin of the World Health Organization* **55**, 441.

- [185] Gunther, S., Good, G., Charrel, R., Roser, C., Becker-Ziaja, B., Lloyd, G., Sabuni, C., Verhagen, R., van der Groen, G., Kennis, J. *et al.*, 2009 Mopeia virus- related arenavirus in natal multimammate mice, Morogoro, Tanzania. *Emerging Infectious Diseases* **15**, 2008–2010.
- [186] Campbell, R., Carley, J., Doherty, R., Domrow, R., Filippich, C., Gorman, B. & Karabatsos, N., 1977 Mossman virus, a paramyxovirus of rodents isolated in Queensland. *Search* **8**.
- [187] Miller, P. J., Boyle, D. B., Eaton, B. T. & Wang, L. F., 2003 Full-length genome sequence of Mossman virus, a novel paramyxovirus isolated from rodents in Australia. *Virology* **317**, 330–344.
- [188] Lambeth, L. S., Yu, M., Anderson, D. E., Crameri, G., Eaton, B. T. & Wang, L. F., 2009 Complete genome sequence of Nariva virus, a rodent paramyxovirus. *Archives of Virology* **154**, 199–207. ISSN 0304-8608.
- [189] Lyons, M. J. & Moore, D. H., 1965 Isolation of the mouse mammary tumor virus: chemical and morphological studies. *Journal of the National Cancer Institute* **35**, 549.
- [190] McKisic, M., Lancki, D., Otto, G., Padrid, P., Snook, S., Cronin, D., Lohmar, P., Wong, T., Fitch, F. *et al.*, 1993 Identification and propagation of a putative immunosuppressive orphan parvovirus in cloned T cells. *The Journal of Immunology* **150**, 419.
- [191] Mistrikova, J. & Blaskovic, D., 1985 Ecology of the murine alphaherpesvirus and its isolation from lungs of rodents in cell culture. *Acta Virologica* **29**, 312–317.
- [192] Singleton, G., Smythe, L., Smith, G., Spratt, D., Aplin, K. & Smith, A., 2003 Rodent diseases in Southeast Asia and Australia: inventory of recent surveys. *Rats, Mice and People* p. 25.
- [193] Booth, T., Scalzo, A., Carrello, C., Lyons, P., Farrell, H., Singleton, G. & Shellam, G., 1993 Molecular and biological characterization of new strains of murine cytomegalovirus isolated from wild mice. *Archives of Virology* **132**, 209–220.

- [194] Bruggeman, C., Meijer, H., Dormans, P., Debie, W., Grauls, G. & Van Boven, C., 1982 Isolation of a cytomegalovirus-like agent from wild rats. *Archives of Virology* **73**, 231–241.
- [195] Lussier, G., 1988 Potential detrimental effects of rodent viral infections on long-term experiments. *Veterinary Research Communications* **12**, 199–217. ISSN 0165-7380.
- [196] Blaskovic, D., Stancekova, M., Svobodova, J., Mistrikova, J. *et al.*, 1980 Isolation of five strains of herpesviruses from two species of free living small rodents. *Acta Virologica* **24**, 468.
- [197] Blasdell, K., McCracken, C., Morris, A., Nash, A., Begon, M., Bennett, M. & Stewart, J., 2003 The wood mouse is a natural host for murid herpesvirus 4. *Journal of General Virology* **84**, 111.
- [198] Melendez, L. V., Daniel, M. D., King, N. W., Calvo, F. C., Barahona, H. H., Thorington, R. W., Jackman, D. A. & Cadwallader, J., 1973 Isolation and in vitro characterization of a herpesvirus from field mouse (*Microtus pennsylvanicus*). *Laboratory Animal Science* **23**, 385.
- [199] Meléndez, L., Hunt, R., King, N., Garcia, F., Like, A., Mike, E. *et al.*, 1967 A herpes virus from sand rats (*Psammomys obesus*). *Laboratory Animal Care* **17**, 302.
- [200] Hartley, J. W. & Rowe, W. P., 1960 A new mouse virus apparently related to the adenovirus group. *Virology* **11**, 645.
- [201] Hashimoto, K., Sugiyama, T., Sasaki, S. *et al.*, 1966 An adenovirus isolated from the feces of mice I. isolation and identification. *Japanese Journal of Microbiology* **10**, 115.
- [202] Klempa, B., Kruger, D., Auste, B., Stanko, M., Krawczyk, A., Nickel, K., Uberla, K. & Stang, A., 2009 A novel cardiotropic murine adenovirus representing a distinct species of mastadenoviruses. *Journal of Virology* **83**, 5749.
- [203] Smith, A., Singleton, G., Hansen, G. & Shellam, G., 1993 A serologic survey for viruses and mycoplasma pulmonis among wild house mice (*Mus domesticus*) in southeastern Australia. *Journal of Wildlife Diseases* **29**, 219–229.

- [204] Virelizier, J., Dayan, A. & Allison, A., 1975 Neuropathological effects of persistent infection of mice by mouse hepatitis virus. *Infection and Immunity* **12**, 1127–1140.
- [205] Prassolov, V., Ivanov, D., Hein, S., Rutter, G., Münk, C., Löhler, J. & Stocking, C., 2001 The Mus cervicolor mulv isolate M813 is highly fusogenic and induces a T-cell lymphoma associated with large multi-nucleated cells. *Virology* **290**, 39–49.
- [206] Hartley, J., Rowe, W., Capps, W. & Huebner, R., 1969 Isolation of naturally occurring viruses of the murine leukemia virus group in tissue culture. *Journal of Virology* **3**, 126–132.
- [207] Tipper, C., Bencsics, C. & Coffin, J., 2005 Characterization of hortulanus endogenous murine leukemia virus, an endogenous provirus that encodes an infectious murine leukemia virus of a novel subgroup. *Journal of Virology* **79**, 8316.
- [208] Karst, S., Wobus, C., Lay, M., Davidson, J. & Virgin IV, H., 2003 Stat1-dependent innate immunity to a norwalk-like virus. *Science's STKE* **299**, 1575.
- [209] Horsfall, F. & Hahn, R., 1940 A latent virus in normal mice capable of producing pneumonia in its natural host. *The Journal of Experimental Medicine* **71**, 391.
- [210] Kilham, L. & Murphy, H., 1953 A pneumotropic virus isolated from C3H mice carrying the bittner milk agent. In *Proceedings of the Society for Experimental Biology and Medicine. Society for Experimental Biology and Medicine (New York, NY)*, volume 82, pp. 133–137. Royal Society of Medicine.
- [211] Gross, L., 1953 A filterable agent, recovered from AK leukemic extracts, causing salivary gland carcinomas in C3H mice. *Proceedings of the Society for Experimental Biology and Medicine* **83**, 414–421.
- [212] Tikasingh, E., Jonkers, A., Spence, L. & Aitken, T., 1966 Nariva virus, a hitherto undescribed agent isolated from the Trinidadian rat, *Zygodontomys b. brevicauda* (ja allen & chapman). *The American Journal of Tropical Medicine Hygiene* **15**, 235–8.

- [213] Himsworth, C., Musil, K., Bryan, L. & Hill, J., 2009 Poxvirus infection in an american red squirrel (*Tamiasciurus hudsonicus*) from northwestern Canada. *Journal of Wildlife Diseases* **45**, 1143–1149.
- [214] Hjelle, B., Krolkowski, J., Torrezmartinez, N., Chavezgiles, F., Vanner, C. & Laposata, E., 1995 Phylogenetically distinct hantavirus implicated in a case of hantavirus pulmonary syndrome in the northeastern United-States. *Journal of Medical Virology* **46**, 21–27.
- [215] Hjelle, B., Lee, S. W., Song, W., Torrez-Martinez, N., Song, J. W., Yanagihara, R., Gavrilovskaya, I. & Mackow, E. R., 1995 Molecular linkage of hantavirus pulmonary syndrome to the white-footed mouse, *Peromyscus leucopus*: genetic characterization of the m genome of New York virus. *J Virol* **69**, 8137–41. R01 ai 31016/ai/niad R01 ai 36336/ai/niad Comparative Study Journal Article Research Support, Non-U.S. Gov't Research Support, U.S. Gov't, Non-P.H.S. Research Support, U.S. Gov't, P.H.S. United states.
- [216] Mills, J., Alva, H., Ellis, B., Wagoner, K., Childs, J., Calderón, G., Enría, D. & Jahrling, P., 2007 Dynamics of Oliveros Virus Infection in Rodents in Central Argentina. *Vector-Borne and Zoonotic Diseases* **7**, 315–323. ISSN 1530-3667.
- [217] Webb, P. A., Johnson, K. M., Hibbs, J. B. & Kuns, M. L., 1970 Parana, a new tacaribe complex virus from Paraguay. *Archives of Virology* **32**, 379–388.
- [218] Trapido, H. & Sanmartín, C., 1971 Pichindé virus. *The American Journal of Tropical Medicine and Hygiene* **20**, 631–641.
- [219] Kosoy, M., Elliott, L., Ksiazek, T., Fulhorst, C., Rollin, P., Childs, J., Mills, J., Maupin, G. & Peters, C., 1996 Prevalence of antibodies to arenaviruses in rodents from the southern and western United States: evidence for an arenavirus associated with the genus *Neotoma*. *The American Journal of Tropical Medicine and Hygiene* **54**, 570–576.
- [220] Charrel, R., de Lamballerie, X. & Emonet, S., 2008 Phylogeny of the genus *Arenavirus*. *Current Opinion in Microbiology* **11**, 362–368.
- [221] Fulhorst, C., Bowen, M., Salas, R., De Manzione, N., Duno, G., Utrera, A., Ksiazek, T., Peters, C., Nichol, S., De Miller, E. *et al.*, 1997

Isolation and characterization of pirital virus, a newly discovered South American arenavirus. *The American Journal of Tropical Medicine and Hygiene* **56**, 548–553.

- [222] Shope, R., Causey, O., De Andrade, A. & Theiler, M., 1964 The Venezuelan equine encephalomyelitis complex of group A arthropod-borne viruses, including Mucambo and Pixuna from the Amazon region of Brazil. *The American Journal of Tropical Medicine and Hygiene* **13**, 723–727.
- [223] Chu, Y., Owen, R., Sánchez-Hernández, C., Romero-Almaraz, M. & Jonsson, C., 2008 Genetic characterization and phylogeny of a hantavirus from western Mexico. *Virus Research* **131**, 180–188.
- [224] McLean, D., Cobb, C., Gooderham, S., Smart, C., Wilson, A. & Wilson, W., 1967 Powassan virus: persistence of virus activity during 1966. *Canadian Medical Association Journal* **96**, 660.
- [225] McLean, D., MacPherson, L., Walker, S. & Funk, G., 1960 Powassan virus: surveys of human and animal sera. *American Journal of Public Health* **50**, 1539.
- [226] McLean, D. & Larke, R., 1963 Powassan and Silverwater viruses: ecology of two Ontario arboviruses. *Canadian Medical Association Journal* **88**, 182.
- [227] Lee, P., Amyx, H., Yanagihara, R., Gajdusek, D., Goldgaber, D. & Gibbs Jr, C., 1985 Partial characterization of prospect hill virus isolated from meadow voles in the united states. *The Journal of Infectious Diseases* pp. 826–829.
- [228] Vahlenkamp, M., Müller, T., Tackmann, K., Löschner, U., Schmitz, H. & Schreiber, M., 1998 The muskrat (*Ondatra zibethicus*) as a new reservoir for puumala-like hantavirus strains in Europe. *Virus Research* **57**, 139–150.
- [229] Saluzzo, J. F., Adam, F., Heme, G. & Digoutte, J. P., 1986 Isolation of viruses from rodents in Senegal (1983-1985). Description of a new poxvirus]. *Bulletin de la Société de pathologie exotique et de ses filiales* **79**, 323.

- [230] Rodhain, F., Metselaar, D., Ardoin, P., Hannoun, C., Shope, R. & Casals, J., 1985 Omo virus: a new nairovirus (Bunyaviridae) of the qalyub group isolated from a rodent in southern Ethiopia [arbovirus]. In *Annales de l'Institut Pasteur Virologie*, volume 136.
- [231] Merchán, T., Rocha, G., Alda, F., Silva, E., Thompson, G., Trucios, S. & Pagés, A., 2011 Detection of rabbit haemorrhagic disease virus (RHDV) in nonspecific vertebrate hosts sympatric to the European wild rabbit (*Oryctolagus cuniculus*). *Infection, Genetics and Evolution* .
- [232] Childs, J., Colby, L., Krebs, J., Strine, T., Feller, M., Noah, D., Drenzek, C., Smith, J. & Rupprecht, C., 1997 Surveillance and spatiotemporal associations of rabies in rodents and lagomorphs in the United States, 1985-1994. *Journal of Wildlife Diseases* **33**, 20–27.
- [233] Delpietro, H., Lord, R., Russo, R. & Gury-Dhomen, F., 2009 Observations of sylvatic rabies in northern Argentina during outbreaks of paralytic cattle rabies transmitted by vampire bats (*Desmodus rotundus*). *Journal of Wildlife Diseases* **45**, 1169–1173.
- [234] Wang, X., Werner, B., Konomi, R., Hennigan, D., Fadden, D., Caten, E., Soliva, S. & DeMaria, A., 2009 Animal rabies in Massachusetts, 1985–2006. *Journal of Wildlife Diseases* **45**, 375–387.
- [235] Chu, D., Chin, A., Smith, G., Chan, K., Guan, Y., Peiris, J. & Poon, L., 2010 Detection of novel astroviruses in urban brown rats and previously known astroviruses in humans. *Journal of General Virology* **91**, 2457.
- [236] Parker, J., Cross, S. & Rowe, W., 1970 Rat coronavirus (RCV): a prevalent, naturally occurring pneumotropic virus of rats. *Archives of Virology* **31**, 293–302.
- [237] Johne, R., Plenge-Bönig, A., Hess, M., Ulrich, R., Reetz, J. & Schielke, A., 2010 Detection of a novel hepatitis E-like virus in faeces of wild rats using a nested broad-spectrum RT-PCR. *Journal of General Virology* **91**, 750.
- [238] Hirano, M., Ding, X., Li, T., Takeda, N., Kawabata, H., Koizumi, N., Kadosaka, T., Goto, I., Masuzawa, T., Nakamura, M. *et al.*, 2003

Evidence for widespread infection of hepatitis E virus among wild rats in Japan. *Hepatology Research* **27**, 1–5.

- [239] Wan, C., Söderlund-Venermo, M., Pintel, D. & Riley, L., 2002 Molecular characterization of three newly recognized rat parvoviruses. *Journal of General Virology* **83**, 2075–2083.
- [240] Ball-Goodrich, L., Leland, S., Johnson, E., Paturzo, F. & Jacoby, R., 1998 Rat parvovirus type 1: the prototype for a new rodent parvovirus serogroup. *Journal of Virology* **72**, 3289–3299.
- [241] Schulz, E., Gottschling, M., Wibbelt, G., Stockfleth, E. & Nindl, I., 2009 Isolation and genomic characterization of the first Norway rat (*Rattus norvegicus*) papillomavirus and its phylogenetic position within papillomavirus, primarily infecting rodents. *Journal of General Virology* **90**, 2609–2614.
- [242] Inizan, C., Cajimat, M., Milazzo, M., Barragán-Gomez, A., Bradley, R. & Fulhorst, C., 2010 Genetic evidence for a tacaribe serocomplex virus, Mexico. *Emerging Infectious Diseases* **16**, 1007.
- [243] Pretorius, A., Oelofsen, M., Smith, M., Van Der Ryst, E. *et al.*, 1997 Rift valley fever virus: a seroepidemiologic study of small terrestrial vertebrates in South Africa. *The American Journal of Tropical Medicine and Hygiene* **57**, 693.
- [244] McIntosh, B., 1961 Susceptibility of some African wild rodents to infection with various arthropod-borne viruses* 1. *Transactions of the Royal Society of Tropical Medicine and Hygiene* **55**, 63–68. ISSN 0035-9203.
- [245] Gora, D., Yaya, T., Jocelyn, T., Didier, F., Maoulouth, D., Amadou, S., Ruel, T. & Gonzalez, J., 2000 The potential role of rodents in the enzootic cycle of rift valley fever virus in Senegal. *Microbes and Infection* **2**, 343–346.
- [246] Imam, I., El Karamany, R. & Darwish, M., 1979 An epidemic of Rift Valley fever in Egypt: 2. Isolation of the virus from animals. *Bulletin of the World Health Organization* **57**, 441.

- [247] Rosa, E., Mills, J., Padula, P., Elkhoury, M., Ksiazek, T., Mendes, W., Santos, E., Araújo, G., Martinez, V., Rosa, J. *et al.*, 2005 Newly recognized hantaviruses associated with hantavirus pulmonary syndrome in northern Brazil: partial genetic characterization of viruses and serologic implication of likely reservoirs. *Vector-Borne & Zoonotic Diseases* **5**, 11–19.
- [248] Powers, A., Mercer, D., Watts, D., Guzman, H., Fulhorst, C., Popov, V. & Tesh, R., 1999 Isolation and genetic characterization of a hantavirus (bunyaviridae: Hantavirus) from a rodent, *Oligoryzomys microtis* (muridae), collected in northeastern peru. *The American Journal of Tropical Medicine and Hygiene* **61**, 92–98.
- [249] Hjelle, B., Jenison, S. A., Goade, D. E., Green, W. B., Feddersen, R. M. & Scott, A. A., 1995 Hantaviruses: clinical, microbiologic, and epidemiologic aspects. *Critical Reviews in Clinical Laboratory Sciences* **32**, 469–508.
- [250] Le Moine, V., Vannier, P. & Jestin, A., 1987 Microbiological studies of wild rodents in farms as carriers of pig infectious agents. *Preventive Veterinary Medicine* **4**, 399–408.
- [251] Armién, A., Armién, B., Koster, F., Pascale, J., Avila, M., Gonzalez, P., de la Cruz, M., Zaldivar, Y., Mendoza, Y., Gracia, F. *et al.*, 2009 Hantavirus infection and habitat associations among rodent populations in agroecosystems of Panama: implications for human disease risk. *The American Journal of Tropical Medicine and Hygiene* **81**, 59–66.
- [252] Fontenille, D., Traore-Lamizana, M., Trouillet, J., Leclerc, A., Mondo, M., Ba, Y., Digoutte, J. & Zeller, H., 1994 First isolations of arboviruses from Phlebotomine sand flies in West Africa. *The American Journal of Tropical Medicine and Hygiene* **50**, 570.
- [253] Klempa, B., Fichet-Calvet, E., Lecompte, E., Auste, B., Aniskin, V., Meisel, H., Denys, C., Koivogui, L., Ter Meulen, J., Krüger, D. *et al.*, 2006 Hantavirus in african wood mouse, Guinea. *Emerging Infectious Diseases* **12**, 838.

- [254] Henttonen, H., Buchy, P., Suputtamongkol, Y., Jittapalapong, S., Herbreteau, V., Laakkonen, J., Chaval, Y., Galan, M., Dobigny, G., Charbonnell, N. *et al.*, 2008 Recent Discoveries of New Hantaviruses Widen Their Range and Question Their Origins. In *Animal Biodiversity and Emerging Diseases: Prediction and Prevention* (ed. Sparagano, OAE and Maillard, JC and Figueroa, JV), volume 1149 of *Annals of the New York Academy of Sciences*, pp. 84–89. Soc Tropical Med, 9600 Garsington RD, Oxford OX4 2DQ, Oxen, England: Blackwell Publishing. ISBN 978-1-57331-714-6. ISSN 0077-8923. (doi: {10.1196/annals.1428.064}). 9th Biennial Conference on Animal Biodiversity and Emerging Diseases - Prediction and Prevention, Merida, Mexico, JUN 17-22, 2007.
- [255] Diosi, P., Babusceac, L. & David, C., 1967 Recovery of cytomegalovirus from the submaxillary glands of ground squirrels. *Archives of Virology* **20**, 383–386.
- [256] Diosi, P., Plavosin, L., Arcan, P. & David, C., 1975 Recovery of a new herpesvirus from the ground squirrel (*Citellus citellus*). *Pathobiology* **42**, 42–48.
- [257] Profeta, M., Lief, F. & Plotkin, S., 1969 Enzootic sendai infection in laboratory hamsters. *American Journal of Epidemiology* **89**, 316–324.
- [258] Fukumi, H., Nishikawa, F. & Kitayama, T. e. a., 1954 A pneumotropic virus from mice causing hemagglutination. *Japanese Journal of Medical Science & Biology* **7**, 345.
- [259] Kosasih, H., Ibrahim, I., Wicaksana, R., Alisjahbana, B., Hoo, Y., Yo, I., Antonjaya, U., Widjaja, S., Winoto, I., Williams, M. *et al.*, 2011 Evidence of human hantavirus infection and zoonotic investigation of hantavirus prevalence in rodents in western Java, Indonesia. *Vector-Borne and Zoonotic Diseases* **11**, 709–713.
- [260] Reynes, J., Soares, J., H  e, T., Bouloy, M., Sun, S., Kr  y, S., Flye Sainte Marie, F. & Zeller, H., 2003 Evidence of the presence of Seoul virus in Cambodia. *Microbes and Infection* **5**, 769–773.
- [261] Lee, P., Goldgaber, D., Gibbs Jr, C., Gajdusek, D., Yanagihara, R., Svedmyr, A., Hlaca, D., Vesenj  k-Hirjan, J. & Gligic, A., 1982 Other

serotypes of hemorrhagic fever with renal syndrome viruses in Europe. *Lancet* **2**, 1405.

- [262] Chow, L., Shu, P., Huang, J., Wang, H., Chang, S., Lu, H., Lin, T. *et al.*, 2005 A retrospective study of hantavirus infection in Kinmen, Taiwan. *Journal of Microbiology Immunology and Infection* **38**, 343.
- [263] Plyusnina, A., Ibrahim, I.-N. & Plyusnin, A., 2009 A newly recognized hantavirus in the Asian house rat (*Rattus tanezumi*) in Indonesia. *Journal of General Virology* **90**, 205–209. ISSN 0022-1317. (doi: {10.1099/vir.0.006155-0}).
- [264] Dearing, M. D., Mangione, A. M., Karasov, W. H., Morzunov, S., Otteson, E. & St Jeor, S., 1998 Prevalence of hantavirus in four species of *Neotoma* from Arizona and Utah. *Journal of Mammalogy* **79**, 1254–1259.
- [265] Elliott, L., Ksiazek, T., Rollin, P., Spiropoulou, C., Morzunov, S., Monroe, M., Goldsmith, C., Humphrey, C., Zaki, S. & Krebs, J., 1994 Isolation of the causative agent of hantavirus pulmonary syndrome. *The American Journal of Tropical Medicine and Hygiene* **51**, 102.
- [266] Abbott, K. D., Ksiazek, T. G. & Mills, J. N., 1999 Long-term hantavirus persistence in rodent populations in central Arizona. *Emerging Infectious Diseases* **5**, 102–12.
- [267] Cajimat, M., Milazzo, M., Borchert, J., Abbott, K., Bradley, R. & Fulhorst, C., 2008 Diversity among tacaribe serocomplex viruses (family Arenaviridae) naturally associated with the mexican woodrat (*Neotoma mexicana*). *Virus Research* **133**, 211–217.
- [268] Sainsbury, A., Adair, B., Graham, D., Gurnell, J., Cunningham, A., Benko, M. & Papp, T., 2001 Isolation of a novel adenovirus associated with splenitis, diarrhoea, and mortality in translocated red squirrels, *Sciurus vulgaris*. *Verhandlungs Bericht über die Erkrankung der Zootiere* **40**, 265–270.
- [269] Bangari, D., Miller, M., Stevenson, G., Thacker, H., Sharma, A. & Mittal, S., 2009 Cutaneous and systemic poxviral disease in red (*Tamiasciurus hudsonicus*) and gray (*Sciurus carolinensis*) squirrels. *Veterinary Pathology Online* **46**, 667.

- [270] Bruemmer, C., Rushton, S., Gurnell, J., Lurz, P., Nettleton, P., Sainsbury, A., Duff, J., Gilray, J., McInnes, C. *et al.*, 2010 Epidemiology of squirrelpox virus in grey squirrels in the UK. *Epidemiology and Infection* **138**, 941–950.
- [271] Atkin, J., Radford, A., Coyne, K., Stavisky, J. & Chantrey, J., 2010 Detection of squirrel poxvirus by nested and real-time PCR from red (*Sciurus vulgaris*) and grey (*Sciurus carolinensis*) squirrels. *BMC Veterinary Research* **6**, 33.
- [272] Sands, J., Scott, A. & Harkness, J., 1984 Isolation in cell culture of a poxvirus from the red squirrel (*Sciurus vulgaris*). *The Veterinary record* **114**, 117.
- [273] de Souza, L., de Abreu, S., Coimbra, T. & Pereira, L., 1979 Isolation of St. Louis Encephalitis virus in south Brazil. *The American Journal of Tropical Medicine and Hygiene* **28**, 583.
- [274] Kramer, L. & Chandler, L., 2001 Phylogenetic analysis of the envelope gene of St. Louis encephalitis virus. *Archives of Virology* **146**, 2341–2355.
- [275] White, D. & White, C., 1981 The occurrence and relevance of arthropods of medical and veterinary importance captured during a survey on Plum Island, New York. *Journal of the New York Entomological Society* pp. 2–15.
- [276] Calisher, C., Tzianabos, T., Lord, R., Coleman, P. *et al.*, 1970 Tami-ami virus, a new member of the tacaribe group. *American Journal of Tropical Medicine and Hygiene* **19**, 520–26.
- [277] Pattamadilok, S., Lee, B., Kumperasart, S., Yoshimatsu, K., Okumura, M., Nakamura, I., Araki, K., Khoprasert, Y., Dangsupa, P., Panlar, P. *et al.*, 2006 Geographical distribution of hantaviruses in Thailand and potential human health significance of Thailand virus. *The American Journal of Tropical Medicine and Hygiene* **75**, 994–1002.
- [278] Elwell, M., Ward, G., Tingpalapong, M., LeDuc, J. *et al.*, 1985 Sero-logic evidence of hantaan-like virus in rodents and man in Thailand. *The Southeast Asian Journal of Tropical Medicine and Public Health* **16**, 349.

- [279] Theiler, M., 1934 Spontaneous encephalomyelitis of mice-a new virus disease. *Science* **80**, 122.
- [280] Woessner, R., Grauer, M., Langenbach, J., Dobler, G., Kroeger, J., Mielke, H., Mueller, P., Haass, A. & Treib, J., 2000 The erve virus: possible mode of transmission and reservoir. *Infection* **28**, 164–166.
- [281] Golovljova, I., Vene, S., Sjölander, K., Vasilenko, V., Plyusnin, A. & Lundkvist, Å., 2004 Characterization of tick-borne encephalitis virus from estonia. *Journal of Medical Virology* **74**, 580–588.
- [282] Kozuch, O., Gurycova, D., Lysý, J. & Labuda, M., 1995 Mixed natural focus of tick-borne encephalitis, tularemia and haemorrhagic fever with renal syndrome in West Slovakia. *Acta Virologica* **39**, 95.
- [283] Achazi, K., Ruzek, D., Donoso-Mantke, O., Schlegel, M., Ali, H., Wenk, M., Schmidt-Chanasit, J., Ohlmeyer, L., Rühle, F., Vor, T. *et al.*, 2011 Rodents as sentinels for the prevalence of tick-borne encephalitis virus. *Vector-Borne and Zoonotic Diseases* **11**, 641–647.
- [284] Kozuch, O., Labuda, M., Lysý, J., Weismann, P. & Krippel, E., 1990 Longitudinal study of natural foci of central European encephalitis virus in west Slovakia. *Acta Virologica* **34**, 537.
- [285] Bakhvalova, V., Dobrotvorsky, A., Panov, V., Matveeva, V., Tkachev, S. & Morozova, O., 2006 Natural tick-borne encephalitis virus infection among wild small mammals in the southeastern part of western Siberia, Russia. *Vector-Borne & Zoonotic Diseases* **6**, 32–41.
- [286] Vapalahti, O., Lundkvist, A., Fedorov, V., Conroy, C., Hirvonen, S., Plyusnina, A., Nemirov, K., Fredga, K., Cook, J., Niemimaa, J. *et al.*, 1999 Isolation and characterization of a hantavirus from *Lemmus sibiricus*: evidence for host switch during hantavirus evolution. *Journal of Virology* **73**, 5586.
- [287] Heroldová, M., Pejčoch, M., Bryja, J., Jánová, E., Suchomel, J. & Tkadlec, E., 2010 Tula virus in populations of small terrestrial mammals in a rural landscape. *Vector-Borne and Zoonotic Diseases* **10**, 599–603.

- [288] Schmidt-Chanasit, J., Essbauer, S., Petraityte, R., Yoshimatsu, K., Tackmann, K., Conraths, F., Sasnauskas, K., Arikawa, J., Thomas, A., Pfeffer, M. *et al.*, 2009 Extensive host sharing of central European tula virus. *Journal of Virology* pp. JVI-01226.
- [289] Plyusnin, A., Vapalahti, O., Lankinen, H., Lehv  slaiho, H., Apekina, N., Myasnikov, Y., Kallio-Kokko, H., Henttonen, H., Lundkvist, A. & Brummer-Korvenkontio, M., 1994 Tula virus: a newly detected hantavirus carried by European common voles. *Journal of Virology* **68**, 7833–7839.
- [290] Vapalahti, O., Lundkvist,   ., Kukkonen, S., Cheng, Y., Gilljam, M., Kanerva, M., Manni, T., Pejcoch, M., Niemimaa, J., Kaikusalo, A. *et al.*, 1996 Isolation and characterization of tula virus, a distinct serotype in the genus hantavirus, family Bunyaviridae. *Journal of General Virology* **77**, 3063–3067.
- [291] Korva, M., Duh, D., Puterle, A., Trilar, T. & Zupanc, T., 2009 First molecular evidence of tula hantavirus in *Microtus voles* in Slovenia. *Virus Research* **144**, 318–322.
- [292] GRAYSON, M. & Galindo, P., 1968 Epidemiologic studies of Venezuelan equine encephalitis virus in Almirante, Panama. *American Journal of Epidemiology* **88**, 80. ISSN 0002-9262.
- [293] Downs, W., Spence, L. & Aitken, T., 1962 Studies on the virus of Venezuelan equine encephalomyelitis in Trinidad, III. Reisolation of virus. *The American Journal of Tropical Medicine and Hygiene* **11**, 841–3.
- [294] Sudia, W. & Newhouse, V., 1975 Epidemic Venezuelan equine encephalitis in North America: a summary of virus-vector-host relationships. *American Journal of Epidemiology* **101**, 1. ISSN 0002-9262.
- [295] Chamberlain, R., Sudia, W., Coleman, P. & Work, T., 1964 Venezuelan equine encephalitis virus from South Florida. *Science* **145**, 272–274. ISSN 0036-8075.
- [296] BIGLER, W., 1971 Serologic evidence of Venezuelan equine encephalitis virus infections in raccoons of south central Florida. *Journal of Wildlife Diseases* **7**, 166–170.

- [297] Salas, R. A., Garcia, C. Z., Liria, J., Barrera, R., Navarro, J. C., Medina, G., Vasquez, C., Fernandez, Z. & Weaver, S. C., 2001 Ecological studies of enzootic Venezuelan equine encephalitis in north-central Venezuela, 1997-1998. *The American Journal of Tropical Medicine and Hygiene* **64**, 84–92.
- [298] Lord, R. D., 1973 Venezuelan equine encephalitis. Its history and geographic distribution]. *Boletín de la Oficina Sanitaria Panamericana. Pan American Sanitary Bureau* **75**, 530.
- [299] Jimenez, A., Jimenez, C., Castro, L. & Rodriguez, L., 1996 Serological survey of small mammals in a vesicular stomatitis virus enzootic area. *Journal of Wildlife Diseases* **32**, 274–279.
- [300] Regnery, D., 1987 Isolation and partial characterization of an orthopoxvirus from a california vole (*Microtus californicus*). *Archives of Virology* **94**, 159–162.
- [301] Knight, J., Goldsmith, C., Tamin, A., Regnery, R., Regnery, D. & Esposito, J., 1992 Further analyses of the orthopoxviruses volepox virus and raccoon poxvirus. *Virology* **190**, 423–433.
- [302] Hubálek, Z. & Halouzka, J., 1999 West nile fever—a reemerging mosquito-borne viral disease in Europe. *Emerging Infectious Diseases* **5**, 643.
- [303] Dietrich, G., Montenieri, J., Panella, N., Langevin, S., Lasater, S., Klenk, K., Kile, J. & Komar, N., 2005 Serologic evidence of West Nile virus infection in free-ranging mammals, Slidell, Louisiana, 2002. *Vector-Borne & Zoonotic Diseases* **5**, 288–292.
- [304] Kramer, L. & Bernard, K., 2001 West Nile virus infection in birds and mammals. *Annals of the New York Academy of Sciences* **951**, 84–93. ISSN 1749-6632.
- [305] Heinz-Taheny, K., Andrews, J., Kinsel, M., Pessier, A., Pinkerton, M., Lemberger, K., Novak, R., Dizikes, G., Edwards, E. & Komar, N., 2004 West Nile virus infection in free-ranging squirrels in Illinois. *Journal of Veterinary Diagnostic Investigation* **16**, 186.

- [306] Komar, N., 2003 West Nile virus: epidemiology and ecology in North America. *Advances in Virus Research* **61**, 185–234. ISSN 0065-3527.
- [307] Marfin, A., Petersen, L., Eidson, M., Miller, J., Hadler, J., Fareello, C., Werner, B., Campbell, G., Layton, M., Smith, P. *et al.*, 2001 Widespread West Nile virus activity, eastern United States, 2000. *Emerging Infectious Diseases* **7**, 730.
- [308] Fulhorst, C., Bowen, M., Ksiazek, T., Rollin, P., Nichol, S., Kosoy, M. & Peters, C., 1996 Isolation and characterization of Whitewater Arroyo virus, a novel North American arenavirus. *Virology* **224**, 114–120.
- [309] Fulhorst, C., Charrel, R., Weaver, S., Ksiazek, T., Bradley, R., Milazzo, M., Tesh, R. & Bowen, M., 2001 Geographic distribution and genetic diversity of Whitewater Arroyo virus in the southwestern United States. *Emerging Infectious Diseases* **7**, 403.
- [310] Bennett, S., Milazzo, M., Webb Jr, J. & Fulhorst, C., 2000 Arenavirus antibody in rodents indigenous to coastal southern California. *The American Journal of Tropical Medicine and Hygiene* **62**, 626–630.
- [311] Summers, J., Smolec, J. & Snyder, R., 1978 A virus similar to human hepatitis b virus associated with hepatitis and hepatoma in woodchucks. *Proceedings of the National Academy of Sciences* **75**, 4533.
- [312] Schatzmayr, H., Simonetti, B., Abreu, D., Simonetti, J., Simonetti, S., Costa, R., Gonçalves, M., D’Andréa, P., Gerhardt, M., Silva, M. *et al.*, 2009 Animal infections by vaccinia-like viruses in the state of Rio de Janeiro: an expanding disease. *Pesquisa Veterinária Brasileira* **29**, 509–514.
- [313] Reynolds, M., Carroll, D., Olson, V., Hughes, C., Galley, J., Likos, A., Montgomery, J., Suu-Ire, R., Kwasi, M., Root, J. *et al.*, 2010 A silent enzootic of an orthopoxvirus in Ghana, West Africa: evidence for multi-species involvement in the absence of widespread human disease. *The American Journal of Tropical Medicine and Hygiene* **82**, 746–754.
- [314] Drexler, J., Corman, V., Wegner, T., Tateno, A., Zerbinati, R., Gloza-Rausch, F., Seebens, A., Müller, M. & Drosten, C., 2011 Amplification of emerging viruses in a bat colony. *Emerging Infectious Diseases* **17**, 449.

- [315] Li, Y., Ge, X., Zhang, H., Zhou, P., Zhu, Y., Zhang, Y., Yuan, J., Wang, L. & Shi, Z., 2010 Host range, prevalence, and genetic diversity of adenoviruses in bats. *Journal of Virology* **84**, 3889–3897.
- [316] Janoska, M., Vidovszky, M., Molnar, V., Liptovszky, M., Harrach, B. & Benkő, M., 2011 Novel adenoviruses and herpesviruses detected in bats. *Veterinary Journal* **189**, 118–121.
- [317] Sonntag, M., M
uhldorfer, K., Speck, S., Wibbelt, G. & Kurth, A., 2009 New adenovirus in bats, Germany. *Emerging Infectious Diseases* **15**, 2052.
- [318] Maeda, K., Hondo, E., Terakawa, J., Kiso, Y., Nakaichi, N., Endoh, D., Sakai, K., Morikawa, S. & Mizutani, T., 2008 Isolation of novel adenovirus from fruit bat (*Pteropus dasymallus yuyeyamae*). *Emerging Infectious Diseases* **14**, 347–349.
- [319]
- [320] Calisher, C. H., Childs, J., Field, H., Holmes, K. & Schountz, T., 2006 Bats: important reservoir hosts of emerging viruses. *Clinical Microbiology Reviews* **19**, 531–545.
- [321] Price, J., 1978 Serological evidence of infection of Tacaribe virus and arboviruses in Trinidadian bats. *The American Journal of Tropical Medicine and Hygiene* **27**, 162.
- [322] Wong, S., Lau, S., Woo, P. & Yuen, K., 2007 Bats as a continuing source of emerging infections in humans. *Reviews in Medical Virology* **17**, 67–91.
- [323] Chu, D., Poon, L., Guan, Y. & Peiris, J., 2008 Novel astroviruses in insectivorous bats. *Journal of Virology* **82**, 9107.
- [324] Zhu, H. C., Chu, D. K. W., Liu, W., Dong, B. O., Zhang, S. Y., Zhang, J. X., Li, L. F., Vijaykrishna, D., Smith, G. J. D., Chen, H. L. *et al.*, 2009 Detection of diverse astroviruses from bats in China. *Journal of General Virology* **90**, 883–887. ISSN 0022-1317. (doi:{10.1099/vir.0.007732-0}).

- [325] Kim, G., Lee, Y. & Park, C., 1994 A new natural reservoir of hantavirus: isolation of hantaviruses from lung tissues of bats. *Archives of Virology* **134**, 85–95. ISSN 0304-8608.
- [326] Lee, Y., Yun, B. & Yoon, J., 1998 Detection of puumala and hantaan viruses among bats in Korea by nested RT-PCR. *Journal of the Korean Society of Virology* **28**, 147–155.
- [327] Yun, B., Yoon, J. & Lee, Y., 1999 Partial sequence analysis of puumala virus M segment from bats in Korea. *Journal of the Korean Society of Virology* **29**, 23–31.
- [328] Gonzalez, J., Ar Gouilh, M., Reynes, J. & Leroy, E., 2008 *Human Health and Forests*, chapter Bat-borne viral diseases, pp. 161–196. Earthscan, Sterling, VA. ISBN 184407532X.
- [329] Main, A., 1979 Virologic and serologic survey for eastern equine encephalomyelitis and certain other viruses in colonial bats of New England. *Journal of Wildlife Diseases* **15**, 455.
- [330] Calisher, C., Chappell, W., Maness, K., Lord, R. & Sudia, W., 1971 Isolations of Nepuyo virus strains from Honduras, 1967. *The American Journal of Tropical Medicine and Hygiene* **20**, 331.
- [331] Boiro, I., Konstaninov, O. & Numerov, A., 1987 Isolation of Rift Valley fever virus from bats in the Republic of Guinea]. *Bulletin de la Societas de pathologie exotique et de ses filiales* **80**, 62. ISSN 0037-9085.
- [332] Nicoletti, L., Verani, P., Caciolli, S., Ciufolini, M., Renzi, A., Bartolozzi, D., Paci, P., Leoncini, F., Padovani, P., Traini, E. *et al.*, 1991 Central nervous system involvement during infection by Phlebovirus toscana of residents in natural foci in central Italy (1977-1988). *The American Journal of Tropical Medicine and Hygiene* **45**, 429.
- [333] Lvov, D., Karas, F., Timofeev, E., Tsyrkin, Y., Vargina, S., Veselovskaya, O., Osipova, N., Grebenyuk, Y., Gromashevski, V., Steblyanko, S. *et al.*, 1973 “Issyk-kul” virus, a new arbovirus isolated from bats and *Argas (carios) vespertilionis* (latr., 1802) in the Kirghiz SSR. *Archives of Virology* **42**, 207–209.

- [334] Calisher, C., 2009 *Desk Encyclopedia of Human and Medical Virology*, chapter Bunyaviruses: Unassigned, p. 357. Academic Press.
- [335] Kalunda, M., Mukwaya, L., Mukuye, A., Lule, M., Sekyalo, E., Wright, J. & Casals, J., 1986 Kasokero virus: a new human pathogen from bats (*Rousettus aegyptiacus*) in Uganda. *The American Journal of Tropical Medicine and Hygiene* **35**, 387.
- [336] Ar Gouilh, M., Puechmaille, S., Gonzalez, J., Teeling, E., Kittayapong, P. & Manuguerra, J., 2011 Sars-coronavirus ancestor's foot-prints in South-East Asian bat colonies and the refuge theory. *Infection, Genetics and Evolution* .
- [337] Pfefferle, S., Oppong, S., Drexler, J., Gloza-Rausch, F., Ipsen, A., Seebens, A., Müller, M., Annan, A., Vallo, P., Adu-Sarkodie, Y. *et al.*, 2009 Distant relatives of severe acute respiratory syndrome coronavirus and close relatives of human coronavirus 229E in bats, Ghana. *Emerging Infectious Diseases* **15**, 1377.
- [338] Drexler, J., Gloza-Rausch, F., Glende, J., Corman, V., Muth, D., Goettsche, M., Seebens, A., Niedrig, M., Pfefferle, S., Yordanov, S. *et al.*, 2010 Genomic characterization of SARS-related coronavirus in european bats and classification of coronaviruses based on partial RNA-dependent RNA polymerase gene sequences. *Journal of Virology* pp. JVI-00650.
- [339] Reusken, C., Lina, P., Pielaat, A., de Vries, A., Dam-Deisz, C., Adema, J., Drexler, J., Drosten, C. & Kooi, E., 2010 Circulation of group 2 coronaviruses in a bat species common to urban areas in western Europe. *Vector-Borne and Zoonotic Diseases* **10**, 785–791.
- [340] Rihtaric, D., Hostnik, P., Steyer, A., Grom, J. & Toplak, I., 2010 Identification of SARS-like coronaviruses in horseshoe bats (*Rhinolophus hipposideros*) in slovenia. *Archives of Virology* **155**, 507–514.
- [341] Gloza-Rausch, F., Ipsen, A., Seebens, A., Gottsche, M., Panning, M., Drexler, J., Petersen, N., Annan, A., Grywna, K., Muller, M. *et al.*, 2008 Detection and prevalence patterns of group I coronaviruses in bats, northern Germany. *Emerging Infectious Diseases* **14**, 626.

- [342] Cui, J., Han, N., Streicker, D., Li, G., Tang, X., Shi, Z., Hu, Z., Zhao, G., Fontanet, A., Guan, Y. *et al.*, 2007 Evolutionary relationships between bat coronaviruses and their hosts. *Emerging Infectious Diseases* **13**, 1526.
- [343] Dominguez, S., O'Shea, T., Oko, L. & Holmes, K., 2007 Detection of group 1 coronaviruses in bats in North America. *Emerging Infectious Diseases* **13**, 1295–1300.
- [344] Osborne, C., Cryan, P., O'Shea, T., Oko, L., Ndaluka, C., Calisher, C., Berglund, A., Klavetter, M., Bowen, R., Holmes, K. *et al.*, 2011 Alpha-coronaviruses in new world bats: Prevalence, persistence, phylogeny, and potential for interaction with humans. *PloS one* **6**, e19156.
- [345] Misra, V., Dumonceaux, T., Dubois, J., Willis, C., Nadin-Davis, S., Severini, A., Wandeler, A., Lindsay, R. & Artsob, H., 2009 Detection of polyoma and corona viruses in bats of Canada. *Journal of General Virology* **90**, 2015–2022.
- [346] Lau, S., Poon, R., Wong, B., Wang, M., Huang, Y., Xu, H., Guo, R., Li, K., Gao, K., Chan, K. *et al.*, 2010 Coexistence of different genotypes in the same bat and serological characterization of Rousettus bat coronavirus HKU9 belonging to a novel betacoronavirus subgroup. *Journal of Virology* **84**, 11385.
- [347] Hayman, D., Emmerich, P., Yu, M., Wang, L., Suu-Ire, R., Fooks, A., Cunningham, A. & Wood, J., 2010 Long-term survival of an urban fruit bat seropositive for ebola and lagos bat viruses. *PloS one* **5**, e11978.
- [348] Shi, Z., 2010 Bat and virus. *Protein and Cell* **1**, 109–114.
- [349] Pourrut, X., Souris, M., Towner, J., Rollin, P., Nichol, S., Gonzalez, J. & Leroy, E., 2009 Large serological survey showing cocirculation of Ebola and Marburg viruses in Gabonese bat populations, and a high seroprevalence of both viruses in Rousettus aegyptiacus. *BMC Infectious Diseases* **9**, 159.
- [350] Swanepoel, R., Smit, S., Rollin, P., Formenty, P., Leman, P., Kemp, A., Burt, F., Grobbelaar, A., Croft, J., Bausch, D. *et al.*, 2007 Studies of reservoir hosts for Marburg virus. *Emerging Infectious Diseases* **13**, 1847.

- [351] Sulkin, S. E. & Allen, R., 1974 Virus infections in bats. *Monographs in virology* **8**, 1–103.
- [352] Aguilar-Setien, A., Romero-Almaraz, M., Sanchez-Hernandez, C., Figueroa, R., Juarez-Palma, L., Garcia-Flores, M., Vazquez-Salinas, C., Salas-Rojas, M., Hidalgo-Martinez, A., Pierle, S. *et al.*, 2008 Short report: Dengue virus in mexican bats. *Epidemiology and Infection* **136**, 1678–1683.
- [353] O'Connor, J. & Rowan, L., 1955 Relationships between the flying fox (genus *Pteropus*) and arthropod-borne fevers of North Queensland. *Nature* **176**, 472. ISSN 0028-0836.
- [354] Rowan, L. & O'Connor, J., 1957 Relationship between some coastal fauna and arthropod-borne fevers of north Queensland. *Nature* **179**, 786.
- [355] Platt, K., Mangiafico, J., Rocha, O., Zaldivar, M., Mora, J., Trueba, G. & Rowley, W., 2000 Detection of dengue virus neutralizing antibodies in bats from Costa Rica and Ecuador. *Journal of Medical Entomology* **37**, 965–967.
- [356] Lvov, D., Tsyarkin, Y., Karas, F., Timopheev, E., Gromashevski, V., Veselovskaya, O., Osipova, N., Fomina, K. & Grebenyuk, Y., 1973 “Sokuluk” virus, a new group B arbovirus isolated from *Vespertilio pipistrellus* Schreber, 1775, bat in the Kirghiz SSR. *Archives of Virology* **41**, 170–174. ISSN 0304-8608.
- [357] Johnsen, D., Edelman, R., Grossman, R., Muangman, D., Pomsdhit, J. & Gould, D., 1974 Study of Japanese encephalitis virus in Chiangmai valley, Thailand V. Animal infections. *American Journal of Epidemiology* **100**, 57. ISSN 0002-9262.
- [358] Cui, J., Counor, D., Shen, D., Sun, G., He, H., Deubel, V. & Zhang, S., 2008 Detection of Japanese encephalitis virus antibodies in bats in southern China. *The American Journal of Tropical Medicine and Hygiene* **78**, 1007.
- [359] Miura, T., Toyokawa, K., Allen, R. & Sulkin, S., 1970 Studies of arthropod-borne virus infections in Chiroptera: VII. Serologic evidence

- of natural Japanese B encephalitis virus infection in bats. *The American Journal of Tropical Medicine and Hygiene* **19**, 88.
- [360] Miura, T. & Kitaoka, M., 1977 Viruses isolated from bats in Japan. *Archives of Virology* **53**, 281–286.
 - [361] Bhat, H., 1989 Tick ecology in relation to Kyasanur forest disease. *Progress in Acarology* **1**, 11–36.
 - [362] Bhat, H. & Sreenivasan, M., 1990 Records of bats in Kyasanur forest disease area and environs in Karnataka state, India, with ecological notes. *Mammalia* **54**, 69–106.
 - [363] Salaun, J., Klein, J. & Hebrard, G., 1974 A new virus, phnom-penh bat virus, isolated in Cambodia from a short-nosed fruit bat,” *Cynopterus brachyotis angulatus*” Miller, 1898]. In *Annales de Microbiologie*, volume 125, p. 485.
 - [364] Price, J., 1978 Isolation of Rio Bravo and a hitherto undescribed agent, Tamana bat virus, from insectivorous bats in Trinidad, with serological evidence of infection in bats and man. *The American Journal of Tropical Medicine and Hygiene* **27**, 153.
 - [365] Ubico, S. & McLean, R., 1995 Serologic survey of neotropical bats in Guatemala for virus antibodies. *Journal of Wildlife Diseases* **31**, 1–9.
 - [366] Konstantinov, O., Diallo, S., Inapogi, A., Ba, A. & Kamara, S., 2006 The mammals of Guinea as reservoirs and carriers of arboviruses]. *Meditsinskaja Parazitologija i Parazitarnye Bolezni* p. 34.
 - [367] Bunde, J. M., Heske, E. J., Mateus-Pinilla, N. E., Hofmann, J. E. & Novak, R. J., 2006 A survey for West Nile virus in bats from Illinois. *Journal of Wildlife Diseases* **42**, 455–458. ISSN 0090-3558.
 - [368] Yuill, T. & Seymour, C., 2001 Arbovirus infections. *Infectious Diseases of Wild Mammals* pp. 98–118.
 - [369] Tajima, S., Takasaki, T., Matsuno, S., Nakayama, M. & Kurane, I., 2005 Genetic characterization of yokose virus, a flavivirus isolated from the bat in Japan. *Virology* **332**, 38–44.

- [370] Epstein, J., Quan, P., Briese, T., Street, C., Jabado, O., Conlan, S., Khan, S., Verdugo, D., Hossain, M., Hutchison, S. *et al.*, 2010 Identification of GBV-D, a novel GB-like flavivirus from old world frugivorous bats (*Pteropus giganteus*) in Bangladesh. *PLoS Pathogens* **6**, e1000972.
- [371] Razafindratsimandresy, R., Jeanmaire, E., Counor, D., Vasconcelos, P. *et al.*, 2009 Partial molecular characterization of alphaherpesviruses isolated from tropical bats. *Journal of General Virology* **90**, 44.
- [372] Molnar, V., Janoska, M., Harrach, B., Glavits, R., Palmai, N., Rigo, D., Sos, E. & Liptovszky, M., 2008 Detection of a novel bat gammaherpesvirus in Hungary. *Acta Veterinaria Hungarica* **56**, 529–538. ISSN 0236-6290. (doi:{10.1556/AVet.56.2008.4.10}).
- [373] Watanabe, S., Ueda, N., Iha, K., Masangkay, J., Fujii, H., Alviola, P., Mizutani, T., Maeda, K., Yamane, D., Walid, A. *et al.*, 2009 Detection of a new bat gammaherpesvirus in the Philippines. *Virus Genes* **39**, 90–93.
- [374] Wibbelt, G., Kurth, A., Yasmum, N., Bannert, M., Nagel, S., Nitsche, A. & Ehlers, B., 2007 Discovery of herpesviruses in bats. *Journal of General Virology* **88**, 2651.
- [375] Kelkar, S., Kadam, S. & Banerjee, K., 1981 Haemagglutination inhibition antibodies against influenza virus in bats. *Indian Journal of Medical Research* **74**, 147–152.
- [376] Rector, A., Mostmans, S., Van Doorslaer, K., McKnight, C. A., Maes, R. K., Wise, A. G., Kiupel, M. & Van Ranst, M., 2006 Genetic characterization of the first chiropteran papillomavirus, isolated from a basosquamous carcinoma in an Egyptian fruit bat: The *Rousettus aegyptiacus* papillomavirus type 1. *Veterinary Microbiology* **117**, 267–275. ISSN 0378-1135. (doi:{10.1016/j.vetmic.2006.06.010}).
- [377] Mackenzie, J., 1999 Emerging viral diseases: an Australian perspective. *Emerging Infectious Diseases* **5**, 1.
- [378] Iehlé, C., Razafitrimo, G., Razainirina, J. *et al.*, 2007 Henipavirus and Tioman virus antibodies in pteropodid bats, Madagascar. *Emerging Infectious Diseases* **13**, 159.

- [379] Hayman, D., Fooks, A., Horton, D., Suu-Ire, R., Breed, A., Cunningham, A. & Wood, J., 2008 Antibodies against Lagos bat virus in Megachiroptera from West Africa. *Emerging Infectious Diseases* **14**, 926.
- [380] Yob, J., Field, H., Rashdi, A., Morrissy, C., van der Heide, B., Rota, P., bin Adzhar, A., White, J., Daniels, P., Jamaluddin, A. *et al.*, 2001 Nipah virus infection in bats (order Chiroptera) in peninsular Malaysia. *Emerging Infectious Diseases* **7**, 439.
- [381] Epstein, J., Field, H., Luby, S., Pulliam, J. & Daszak, P., 2006 Nipah virus: impact, origins, and causes of emergence. *Current Infectious Disease Reports* **8**, 59–65.
- [382] Olson, J. G., Rupprecht, C., Rollin, P. E., An, U. S., Niezgoda, M., Clemins, T., Walston, J. & Ksiazek, T. G., 2002 Antibodies to nipah-like virus in bats (*Pteropus lylei*), Cambodia. *Emerging Infectious Diseases* **8**, 987.
- [383] Johara, M., Field, H., Rashdi, A., Morrissy, C., van der Heide, B. & Rota, P., 2001 Nipah virus infection in bats (order Chiroptera) in peninsular Malaysia. *Emerging Infectious Diseases* **7**, 439–441.
- [384] Salas-Rojas, M., Sanchez-Hernandez, C., Romero-Almaraz, M., Schnell, G., Schmid, R. & Aguilar-Setien, A., 2004 Prevalence of rabies and LPM paramyxovirus antibody in non-hematophagous bats captured in the central pacific coast of Mexico. *Transactions of the Royal Society of Tropical Medicine and Hygiene* **98**, 577–584.
- [385] Lau, S., Woo, P., Wong, B., Wong, A., Tsoi, H.-W., Wang, M., Lee, P., Xu, H., Poon, R., Guo, R. *et al.*, 2010 Identification and complete genome analysis of three novel paramyxoviruses, Tuhoko virus 1, 2 and 2, in fruit bats from China. *Virology* **404**, 106–116.
- [386] Philbey, A., Kirkland, P., Ross, A., Davis, R., Gleeson, A., Love, R., Daniels, P., Gould, A. & Hyatt, A., 1998 An apparently new virus (family Paramyxoviridae) infectious for pigs, humans, and fruit bats. *Emerging Infectious Diseases* **4**, 269.

- [387] Philbey, A., Kirkland, P., Ross, A., Field, H., Srivastava, M., Davis, R. & Love, R., 2008 Infection with Menangle virus in flying foxes (*Pteropus* spp.) in Australia. *Australian Veterinary Journal* **86**, 449–454.
- [388] Pavri, K., Singh, K. & Hollinger, F., 1971 Isolation of a new parainfluenza virus from a frugivorous bat, *Rousettus leschenaulti*, collected at Ppooona, India. *The American Journal of Tropical Medicine and Hygiene* **20**, 125–130.
- [389] Kemp, G., Le Gonidec, G., Karabatsos, N., Rickenbach, A. & Cropp, C., 1988 IFE: a new African orbivirus isolated from *Eidolon helvum* bats captured in Nigeria, Cameroon and the Central African Republic. *Bulletin de la Soci  t   de pathologie exotique et de ses filiales* **81**, 40.
- [390] Thalmann, C., Cummins, D., Yu, M., Lunt, R., Pritchard, L., Hansson, E., Crameri, S., Hyatt, A. & Wang, L., 2010 Brrome virus, a new fusogenic orthoreovirus species isolated from an Australian fruit bat. *Virology* **402**, 26–40.
- [391] Du, L., Lu, Z., Fan, Y., Meng, K., Jiang, Y., Zhu, Y., Wang, S., Gu, W., Zou, X. & Tu, C., 2010 Xi river virus, a new bat reovirus isolated in southern China. *Archives of Virology* **155**, 1295–1299.
- [392] Pritchard, L., Chua, K., Cummins, D., Hyatt, A., Crameri, G., Eaton, B. & Wang, L., 2006 Pulau virus; a new member of the Nelson Bay orthoreovirus species isolated from fruit bats in Malaysia. *Archives of virology* **151**, 229–239.
- [393] Baillie, G., van de Lagemaat, L., Baust, C. & Mager, D., 2004 Multiple groups of endogenous betaretroviruses in mice, rats, and other mammals. *Journal of Virology* **78**, 5784–5798. ISSN 0022-538X.
- [394] Arai, Y., Kuzmin, I., Kameoka, Y. & Botvinkin, A., 2003 New lyssavirus genotype from the lesser mouse-eared bat (*Myotis blythi*), Kyrgyzstan. *Emerging Infectious Diseases* **9**, 333.
- [395] Lumlertdacha, B., Boongird, K., Wanghongsa, S., Wacharapluesadee, S., Chanhom, L., Khawplod, P., Hemachudha, T., Kuzmin, I. & Rupprecht, C., 2005 Survey for bat lyssaviruses, Thailand. *Emerging Infectious Diseases* **11**, 232–6.

- [396] Arguin, P., K, M.-L., Miranda, M., Smith, J., Calaor, A. & Rupprecht, C., 2002 Serological evidence of lyssavirus infections among bats, the Pphilippines. *Emerging Infectious Diseases* **8**, 258–262.
- [397] Gould, A., Kattenbelt, J., Gumley, S. & Lunt, R., 2002 Characterisation of an Australian bat lyssavirus variant isolated from an insectivorous bat. *Virus Research* **89**, 1–28. ISSN 0168-1702.
- [398] Fraser, G., Hooper, P., Lunt, R., Gould, A., Gleeson, L., Hyatt, A., Russell, G. & Kattenbelt, J., 1996 Encephalitis caused by a Lyssavirus in fruit bats in Australia. *Emerging Infectious Diseases* **2**, 327.
- [399] Mackenzie, J., Chua, K., Daniels, P., Eaton, B., Field, H., Hall, R., Halpin, K., Johansen, C., Kirkland, P., Lam, S. *et al.*, 2001 Emerging viral diseases of southeast Asia and the western Pacific. *Emerging Infectious Diseases* **7**, 497.
- [400] Markotter, W., Van Eeden, C., Kuzmin, I., Rupprecht, C., Paweska, J., Swanepoel, R., Fooks, A., Sabeta, C., Cliquet, F. & Nel, L., 2008 Epidemiology and pathogenicity of african bat lyssaviruses. *Developments in Biologicals* **131**, 317–325.
- [401] Müller, T., Johnson, N., Freuling, C. M., Fooks, A. R., Selhorst, T. & Vos, A., 2007 Epidemiology of bat rabies in Germany. *Archives of Virology* **152**, 273–288.
- [402] Serra-Cobo, J., Amengual, B., Abellan, C. & Bourhy, H., 2002 European bat lyssavirus infection in spanish bat populations. *Emerging Infectious Diseases* **8**, 413–420.
- [403] KUZMIN, I. & RUPPRECHT, C., 1999 Bat rabies. *Handbook of animal models of infection: experimental models in antimicrobial chemotherapy* p. 259.
- [404] M
 ”uller, T., Cox, J., Peter, W., Sch
 ”afer, R., Johnson, N., McElhinney, L., Geue, J., Tjørnehøj, K. & Fooks, A., 2004 Spill-over of European bat lyssavirus type 1 into a stone marten (*Martes foina*) in Germany. *Journal of Veterinary Medicine, Series B* **51**, 49–54.

- [405] Bourhy, H., Kissi, B., Lafon, M., Sacramento, D. & Tordo, N., 1992 Antigenic and molecular characterization of bat rabies virus in Europe. *Journal of Clinical Microbiology* **30**, 2419–2426. ISSN 0095-1137.
- [406] Amengual, B., Whitby, J., King, A., Cobo, J. & Bourhy, H., 1997 Evolution of European bat lyssaviruses. *Journal of General Virology* **78**, 2319–2328. ISSN 0022-1317.
- [407] Botvinkin, A. D., Poleschuk, E. M., Kuzmin, I. V., Borisova, T. I., Gazaryan, S. V., Yager, P. & Rupprecht, C. E., 2003 Novel lyssaviruses isolated from bats in Russia. *Emerging Infectious Diseases* **9**, 1623–1625.
- [408] Kuzmin, I., Orciari, L., Arai, Y., Smith, J., Hanlon, C., Kameoka, Y. & Rupprecht, C., 2003 Bat lyssaviruses (Aravan and Khujand) from central Asia: phylogenetic relationships according to N, P and G gene sequences. *Virus Research* **97**, 65–79.
- [409] Dzikwi, A., Kuzmin, I., Umoh, J., Kwaga, J., Ahmad, A. & Rupprecht, C., 2010 Evidence of Lagos bat virus circulation among Nigerian fruit bats. *Journal of Wildlife Diseases* **46**, 267–271.
- [410] Crick, J., Tignor, G. & Moreno, K., 1982 A new isolate of Lagos bat virus from the Republic of South Africa. *Transactions of the Royal Society of Tropical Medicine and Hygiene* **76**, 211–213. ISSN 0035-9203.
- [411] Johnson, N., Vos, A., Freuling, C., Tordo, N., Fooks, A. & Muller, T., 2010 Human rabies due to lyssavirus infection of bat origin. *Veterinary Microbiology* **142**, 151–159. ISSN 0378-1135.
- [412] Kuzmin, I., Niezgoda, M., Franka, R., Agwanda, B., Markotter, W., Beagley, J., Urazova, O., Breiman, R. & Rupprecht, C., 2008 Lagos bat virus in Kenya. *Journal of Clinical Microbiology* **46**, 1451–1461.
- [413] Kemp, G., Causey, O., Moore, D., Odelola, A. & Fabiyi, A., 1972 Mokola virus: Further studies on Iban 27377, a new rabies-related etiologic agent of zoonosis in Nigeria. *The American Journal of Tropical Medicine and Hygiene* **21**, 356.

- [414] Sodré, M., Gama, A. & Almeida, M., 2010 Updated list of bat species positive for rabies in Brazil. *Revista do Instituto de Medicina Tropical de São Paulo* **52**, 75–81.
- [415] Streicker, D., Turmelle, A., Vonhof, M., Kuzmin, I., McCracken, G. & Rupprecht, C., 2010 Host phylogeny constrains cross-species emergence and establishment of rabies virus in bats. *Science* **329**, 676.
- [416] Burns, K., Farinacci, C., Murnane, T. & Shelton, D., 1956 Insectivorous bats naturally infected with rabies in southwestern United States. *American Journal of Public Health* **46**, 1089.
- [417] Kobayashi, Y., Sato, G., Kato, M., Itou, T., Cunha, E., Silva, M., Mota, C., Ito, F. & Sakai, T., 2007 Genetic diversity of bat rabies viruses in Brazil. *Archives of Virology* **152**, 1995–2004. ISSN 0304-8608.
- [418] Price, J. & Everard, C., 1977 Rabies virus and antibody in bats in Grenada and Trinidad. *Journal of Wildlife Diseases* **13**, 131.
- [419] Stouraitis, P. & Salvatierra, J., 1978 Isolation of rabies virus from bats in Bolivia. *Tropical Animal Health and Production* **10**, 101–102. ISSN 0049-4747.
- [420] Almeida, M., Martorelli, L., Sodré, M., Kataoka, A., Rosa, A., Oliveira, M. & Amatuzzi, E., 2011 Rabies diagnosis and serology in bats from the state of são paulo, brazil. *Revista da Sociedade Brasileira de Medicina Tropical* **44**, 140–145.
- [421] Constantine, D., 1979 An updated list of rabies-infected bats in North America. *Journal of Wildlife Diseases* **15**, 347.
- [422] Favoretto, S., Carrieri, M., Cunha, E., Aguiar, E., Silva, L., Sodré, M., SOUZA, M. & Kotait, I., 2002 Antigenic typing of Brazilian rabies virus samples isolated from animals and humans, 1989-2000. *Revista do Instituto de Medicina Tropical de São Paulo* **44**, 91–95. ISSN 0036-4665.
- [423] Lopez, R., Miranda, P., Tejada, V. & Fishbein, D., 1992 Outbreak of human rabies in the Peruvian jungle. *The Lancet* **339**, 408–411.

- [424] Castilho, J. G., Canello, F. M., Scheffer, K. C., Achkar, S. M., Carrieri, M. L. & Kotait, I., 2008 Antigenic and genetic characterization of the first rabies virus isolated from the bat *Eumops perotis* in Brazil. *Revista do Instituto de Medicina Tropical de São Paulo* **50**, 95–99.
- [425] Castilho, J., Carnieli Jr, P., Oliveira, R., Fahl, W., Cavalcante, R., Santana, A., Rosa, W., Carrieri, M. & Kotait, I., 2010 A comparative study of rabies virus isolates from hematophagous bats in Brazil. *Journal of Wildlife Diseases* **46**, 1335–1339.
- [426] Páez, A., Núñez, C., García, C. & Bóshell, J., 2003 Molecular epidemiology of rabies epizootics in Colombia: evidence for human and dog rabies associated with bats. *Journal of General Virology* **84**, 795–802.
- [427] Cunha, E., Silva, L., Lara, M., Nassar, A., Albas, A., Sodré, M. & Pedro, W., 2006 Bat rabies in the north-northwestern regions of the state of São Paulo, Brazil: 1997-2002. *Revista de Saúde Pública* **40**, 1082–1086.
- [428] Cisterna, D., Bonaventura, R., Caillou, S., Pozo, O., Andreau, M., Fontana, L., Echegoyen, C., Mattos, C., Mattos, C., Russo, S. *et al.*, 2005 Antigenic and molecular characterization of rabies virus in Argentina. *Virus Research* **109**, 139–147. ISSN 0168-1702.
- [429] Velasco-Villa, A., Orciari, L., Juarez-Islas, V., Gómez-Sierra, M., Padilla-Medina, I., Flisser, A., Souza, V., Castillo, A., Franka, R., Escalante-Mane, M. *et al.*, 2006 Molecular diversity of rabies viruses associated with bats in Mexico and other countries of the Americas. *Journal of Clinical Microbiology* **44**, 1697.
- [430] Bell, J. & Moore, G., 1960 Rabies virus isolated from brown fat of naturally infected bats. *Proceedings of the Society for Experimental Biology and Medicine* **103**, 140–42. ISSN 0037-9727.
- [431] Webster, W., Casey, G., Charlton, K. & Wiktor, T., 1985 Antigenic variants of rabies virus in isolates from eastern, central and northern Canada. *Canadian Journal of Comparative Medicine* **49**, 186.
- [432] Constantine, D., Humphrey, G. & Herbenick, T., 1979 Rabies in *Myotis thysanodes*, *Lasiurus ega*, *Euderma maculatum* and *Eumops perotis* in California. *Journal of Wildlife Diseases* **15**, 343–345.

- [433] de Rosa, A., Kataoka, A., Favoretto, S., Sodré, M., Trezza Netto, J., Campos, A., Durigon, E. & Martorelli, L., 2011 First report of rabies infection in bats, *Molossus molossus*, *Molossops neglectus* and *Myotis riparius* in the city of São Paulo, state of São Paulo, southeastern Brazil. *Revista da Sociedade Brasileira de Medicina Tropical* **44**, 146–149.
- [434] Scheffer, K., Carrieri, M., Albas, A., Santos, H., Kotait, I. & Ito, F., 2007 Rabies virus in naturally infected bats in the state of São Paulo, southeastern Brazil. *Revista de Saúde Pública* **41**, 389–395.
- [435] Sheeler-Gordon, L. & Smith, J., 2001 Survey of bat populations from Mexico and Paraguay for rabies. *Journal of Wildlife Diseases* **37**, 582–593.
- [436] Schneider, N., Scatterday, J., Lewis, A., Jennings, W., Venters, H. & Hardy, A., 1957 Rabies in bats in Florida. *American Journal of Public Health and the Nations Health* **47**, 983–989.
- [437] Trimarchi, C. & Debbie, J., 1977 Naturally occurring rabies virus and neutralizing antibody in two species of insectivorous bats of New York state. *Journal of Wildlife Diseases* **13**, 366–369.
- [438] Blanton, J., Hanlon, C. & Rupprecht, C., 2007 Rabies surveillance in the United States during 2006. *Journal of the American Veterinary Medical Association* **231**, 540–556.
- [439] Crawford-Miksza, L., Wadford, D. & Schnurr, D., 1999 Molecular epidemiology of enzootic rabies in California. *Journal of Clinical Virology* **14**, 207–219.
- [440] Blanton, J., Palmer, D., Dyer, J. & Rupprecht, C., 2011 Rabies surveillance in the United States during 2010. *Journal of the American Veterinary Medical Association* **239**, 773–783.
- [441] Selimov, M., Smekhov, A., Antonova, L., Shablovskaya, E., King, A. & Kulikova, L., 1991 New strains of rabies-related viruses isolated from bats in the Ukraine. *Acta virologica* **35**, 226.
- [442] De Yosti, N., Lora, C., Morán, B. & Urbina, R., 1970 First report in Peru of paralytic rabies in cattle transmitted by bats. *Revta Inst. Zoonosis Invest. Pecu.* **1**, 8–18.

- [443] Franka, R., Constantine, D., Kuzmin, I., Velasco-Villa, A., Reeder, S., Streicker, D., Orciari, L., Wong, A., Blanton, J. & Rupprecht, C., 2006 A new phylogenetic lineage of rabies virus associated with western pipistrelle bats (*Pipistrellus hesperus*). *Journal of general virology* **87**, 2309–2321.
- [444] Jiang, Y., Wang, L., Lu, Z., Xuan, H., Han, X., Xia, X., Zhao, F. & Tu, C., 2010 Seroprevalence of rabies virus antibodies in bats from southern China. *Vector-Borne and Zoonotic Diseases* **10**, 177–181.
- [445] Nunes, K., da Rosa, E., Barbosa, T., Pereira, A., Medeiros, D., Casseb, L., Vasvoncelos, P. & Nunes, M., 2008 Genetic characterization of the rabies virus strain GR 18867 (*Rhabdoviridae*, *Lyssavirus*) isolated from the *Uroderma bilobatum* bat in portel municipality, Para state, 2004. *American Journal of Tropical Medical and Hygiene* **79**, 213.
- [446] Kuzmin, I., Mayer, A., Niezgoda, M., Markotter, W., Agwanda, B., Breiman, R. & Rupprecht, C., 2010 Shimoni bat virus, a new representative of the *Lyssavirus* genus. *Virus Research* **149**, 197–210.
- [447] Murphy, F. A. & Fields, B. N., 1967 Kern canyon virus: electron microscopic and immunological studies. *Virology* **33**, 625–37.
- [448] Iwasaki, T., Inoue, S., Tanaka, K., Sato, Y., Morikawa, S., Hayasaka, D., Moriyama, M., Ono, T., Kanai, S., Yamada, A. *et al.*, 2004 Characterization of oita virus 296/1972 of *rhabdoviridae* isolated from a horse-shoe bat bearing characteristics of both *lyssavirus* and *vesiculovirus*. *Archives of Virology* **149**, 1139–1154.
- [449] Tesh, R., Peralta, P. & Johnson, K., 1969 Ecologic studies of vesicular stomatitis virus: I. prevalence of infection among animals and humans living in an area of endemic VSV activity. *American Journal of Epidemiology* **90**, 255–261.
- [450] lihua Yu Yongxin Zi Dengyun Li Zhaoxiang Zhang Tianshou Cui Wuquan Wang Zhiwei Guo Zhenming Li Xinnian Jia Li Yunnan, Z. H. S. H. L., 1989 Isolation of Chikungunya virus from bat in Yunnan province and serological investigations. *Chinese Journal of Virology* **1989-01**.

- [451] Wilkins, K., 1989 *Tadarida brasiliensis*. *Mammalian species* pp. 1–10. ISSN 0076-3519.
- [452] Fernandez, A., Moncayo, A., Carrara, A., Forattini, O. & Weaver, S., 2003 Vector competence of rural and urban strains of *Aedes* (*Stegomyia*) *albopictus* (diptera:Culicidae) from Sao Paulo state, Brazil for IC, ID, and IF subtypes of Venezuelan equine encephalitis virus. *Journal of Medical Entomology* **40**, 522–527.
- [453] Li, Y., Wang, J., Hickey, A., Zhang, Y., Li, Y., Wu, Y., Zhang, H., Yuan, J., Han, Z., McEachern, J. *et al.*, 2008 Antibodies to nipah or nipah-like viruses in bats, China. *Emerging Infectious Diseases* **14**, 1974.
- [454] Constantine, D., 1970 *Bats in relation to the health, welfare, and economy of man*. Academic Press Incorporated.
- [455] Hubalek, Z., 1987 Geographic distribution of bhanja virus. *Folia parasitologica* **34**, 77.