

## List of Publications

Udo Hetzel, Dr. med. vet., Dr. rer. nat., FTA (Pathologie)

1. McGarry J, Ratsep E, Ressel L, Leeming G, Ricci E, Verin R, Blundell R, Kipar A, **Hetzel U**, Yeates J. Introducing forensic entomology in cases of suspect animal neglect. *Vet Rec.* 2017 Dec 20. pii: vetrec-2016-104158. doi: 10.1136/vr.104158. [Epub ahead of print]
2. Dervas E, Hepojoki J, Laimbacher A, Romero-Palomo F, Jelinek C, Keller S, Smura T, Hepojoki S, Kipar A, **Hetzel U**. Nidovirus-associated proliferative pneumonia in the green tree python (*Morelia viridis*). *J Virol* 2017 Aug 9. pii: JVI.00718-17. doi: 10.1128/JVI.00718-17. [Epub ahead of print].
3. Fonfara S, Kitz S, **Hetzel U**, Kipar A. Myocardial leptin transcription in feline hypertrophic cardiomyopathy. *Res Vet Sci.* 2017 Jun;112:105-108. doi: 10.1016/j.rvsc.2017.02.006. Epub 2017 Feb 13.
4. Braun U1, Warislohner S2, **Hetzel U3**, Nuss K2. Case report: clinical and postmortem findings in four cows with rib fracture. *BMC Res Notes.* 2017 Feb 6;10(1):85. doi: 10.1186/s13104-017-2415-1
5. Keller S, **Hetzel U**, Sironen T, Korzyukov Y, Vapalahti O, Kipar A, Hepojoki J. Co-infecting reptarenavirus species can be vertically transmitted in boa constrictor. *PLoS Pathog.* 2017 Jan 23;13(1):e1006179. doi: 10.1371/journal.ppat.1006179. eCollection 2017 Jan.
6. Stadler S1, Dennler M2, **Hetzel U3**, Del Chicca F2, Hoey S2, Spiess BM1, Voelter K1, Pot SA1. Sub-Tenon's injection in equine cadaver eyes: MRI visualization of anesthetic fluid distribution and comparison of two different volumes. *Vet Ophthalmol.* 2016 Dec 23. doi: 10.1111/vop.12452. [Epub ahead of print]
7. Ressel L1, **Hetzel U2**, Ricci E3. Blunt Force Trauma in Veterinary Forensic Pathology. *Vet Pathol.* 2016 Sep;53(5):941-61.
8. Korzyukov Y, **Hetzel U**, Kipar A, Vapalahti O, Hepojoki J, 2016. Generation of anti-boa immunoglobulin antibodies for serodiagnostic applications, and their use to detect anti-reptarenavirus antibodies in *Boa constrictor*. *PLoSOne* 2016 Jun 29;11(6):e0158417. doi: 10.1371/journal.pone.0158417. eCollection 2016.
9. Fonfara S, **Hetzel U**, Kipar A, 2015. Age-dependent myocardial transcription patterns of cytokines and extracellular matrix remodelling enzymes in cats with non-cardiac diseases. *Exp Gerontol* 72,117-123.
10. Hepojoki J, Salmenperä P, Sironen T, **Hetzel U**, Korzyukov Y, Kipar A, Vapalahti O, 2015. Arenavirus co-infections are common in snakes with boid inclusion body disease. *J Virol* 89(16), 8657-8660.
11. Hepojoki J, Kipar A, Korzyukov Y, Bell-Sakyi L, Vapalahti O, **Hetzel U**, 2015. Replication of boid inclusion body disease associated arenaviruses is temperature sensitive in both boid and mammalian cells. *J Virol* 89(2), 1119-1128 (article selected for Spotlight; articles of significant interest selected from this issue by the editors).

12. Mosseri S, **Hetzel U**, Hahn S, Sallabank H, Knottenbelt DC, Kipar A, 2014. Equine sarcoids: in situ study on the local behaviour. *Vet J* 202(2), 279-285.
13. Nordgren H1, Aaltonen K2, Sironen T2, Kinnunen PM3, Kivistö I4, Raunio-Saarnisto M5, Moisander-Jylhä AM6, Korpela J6, Kokkonen UM7, **Hetzel U3**, Sukura A3, Vapalahti O8. Characterization of a new epidemic necrotic pyoderma in fur animals and its association with *Arcanobacterium phocae* infection. *PLoS One*. 2014 Oct 10;9(10):e110210. doi: 10.1371/journal.pone.0110210. eCollection 2014.
14. Hepojoki J, Strandin TM, **Hetzel U**, Sironen T, Klingström J, Sane J, Mäkelä S, Mustonen J, Meri S, Lundkvist A, Vapalahri O, Lankinen HM, Vaheri A, 2014. Acute hantavirus infection induces galectin-3 binding protein. *J Gen Virol*. 2014 Nov;95(Pt 11):2356-64
15. Darke S, Marschang RE, **Hetzel U**, Reinacher M, 2014. Experimental infection of *Boa constrictor* with an orthoreovirus isolated from a snake with inclusion body disease. *J Zoo Wildl Med* 45(2), 433-436.
16. McGarry JW, Higgins A, White NG, Pounder KC, **Hetzel U**, 2014. Zoonotic helminths of urban brown rats (*Rattus norvegicus*) in the UK: Neglected public health considerations? *Zoonoses and Public Health* 62(1):44-52.
17. Fonfara S, **Hetzel U**, Oyama, MA, Kipar A, 2014. The potential role of myocardial serotonin 2B receptor expression in canine dilated cardiomyopathy. *Vet J* 199(3), 406-412.
18. Antuofermo E, Pais A, Novuli S, **Hetzel U**, Burrai GP, Rocca S, Caffara M, Giorgi I, Pedron C, Prearo M, 2014. *Mycobacterium chelonae* associated with tumor-like skin and oral masses in farmed Russian Sturgeons (*Acipenser gueldenstaedtii*). *BMC Vet Res* 2014 Jan 14; 10:18. DOI: 10.1186/1746-6148-10-18.
19. **Hetzel U**, Sironen T, Laurinmäki P, Liljeroos L, Patjas A, Henttonen H, Vaheri A, Artelt A, Kipar A, Butcher S, Vapalahti O, Hepojoki J, 2013. Reply to "Updated phylogenetic analysis of arenaviruses detected in boid snakes". *J Virol* 88(2), 1401.
20. Kipar A, Burthe SJ, **Hetzel U**, Ibrahim M, Telfer S, Lambin X, Birtles R, 2014. *Mycobacterium microti* tuberculosis in its maintenance host, the field vole (*Microtus agrestis*): Characterization of the disease and possible routes of transmission. *Vet Pathol*. 51(5):903-14.
21. Hinnigan GJ, Papoula-Pereira R, **Hetzel U**, Singer ER, 2013. Severe supracondylar lysis of the third metatarsal bone due to intra-articular haemorrhage with similarities to human pigmented villonodular synovitis: A differential diagnosis to intra-articular neoplasia. *Equine Vet Educ*. 2013 August 27. DOI: 10.1111/eve.12071
22. **Hetzel U**, Sironen T, Laurinmäki P, Liljeroos L, Patjas A, Henttonen H, Vaheri A, Artelt A, Kipar A, Butcher S, Vapalahti O, Hepojoki J, 2013. Isolation, identification and characterization of novel Arenaviruses, the etiological agent of Boid Inclusion Body Disease. *J Virol* 87(20), 10918-10935.
23. Schönherr FA1,2, Sparber F1, Kirchner FR1, Guiducci E1, Trautwein-Weidner K1, Gladiator A1, Sertour N3, **Hetzel U4**, Le GTT5, Pavelka N5, d'Enfert C3, Bougnoux ME3,6, Corti CF2, LeibundGut-Landmann S1. The intraspecies diversity of *C. albicans* triggers qualitatively and temporally distinct host responses that determine the balance between commensalism and pathogenicity. *Mucosal Immunol*. 2017 Sep;10(5):1335-1350.

24. Bányai K, Borzák R, Ihász K, Fehér E, Dán A, Jakab F, Papp T, **Hetzel U**, Marschang RE, Farkas SL, 2014. Whole-genome sequencing of a green bush viper reovirus reveals a shared evolutionary history between reptilian and unusual mammalian orthoreoviruses. *Arch Virol* 159(1), 153-158.
25. Pellegrini G, Starkey Lewis P, Palmer L, **Hetzel U**, Goldring C, Park BK, Kipar A, Williams D, 2013. Intraperitoneal administration of high doses of polyethylene glycol (PEG) causes hepatic subcapsular necrosis and low-grade peritonitis with a rise in hepatic biomarkers. *Toxicology* 314(2-3), 262-266.
26. Nikolaou G, de Bont M, Herden C, **Hetzel U**. Paravertebral malignant peripheral nerve sheath tumour (MPNST) in a horse. *Equine Vet Educ*. 2013 May 24. DOI: 10.1111/eve.12041 [Epub ahead of print].
27. Fonfara S, **Hetzel U**, Tew S, Cripps P, Dukes-McEwan J, Clegg P, 2013. Myocardial cytokine expression in dogs with end-stage systemic and naturally occurring cardiac diseases. *Am J Vet Res* 74(3), 408-416.
28. Fonfara S, **Hetzel U**, Tew S, Cripps P, Dukes-McEwan J, Clegg P, 2013. Expression of matrix metalloproteinases, their inhibitors, and lysyl oxidase in myocardial samples from dogs with end-stage systemic and cardiac diseases. *Am J Vet Res* 74(2), 216-223.
29. Trokovic N, Pöllänen R, Porola P, Stegaev V, **Hetzel U**, Tivesten A, Engdahl C, Carsten H, Forsblad-d'Elia H, Fagman JB, Lagerquist MK, Kontinen YT, 2012. Eosomal secretion of death bullets, a new way of apoptotic escape? *Am J Physiol Endocrinol Metab* 303(8), E1015-E1024.
30. **Hetzel U**, Dixon CE, Just AE, Birtles RJ, Kipar A, 2012. *Mycobacterium malmoense* as an extrapulmonary pathogen of cats. *Vet Rec* 171(11), 274.
31. Sommerey CC, Borgeat KA, **Hetzel U**, Archer J, Torrance AG, 2012. Intrathoracic myxosarcoma in a dog. *J Comp Pathol* 147(2-3), 199-203.
32. Lindner A, Dag Erginsoy S, Kissenbeck S, Mosen H, **Hetzel U**, Drommer W, Chamizo VE, Rivero JL, 2012. Effect of different blood-guided conditioning programmes on skeletal muscle ultrastructure and histochemistry of sport horses. *J Anim Physiol Anim Nutr (Berl)*. 97(2):374-386.
33. Lacourse EJ, Perally S, Morphew RM, Moxon JV, Prescott M, Dowling DJ, O'Neill SM, Kipar A, **Hetzel U**, Hoey E, Zafra R, Buffoni L, Pérez Arévalo J, Brophy PM, 2012. The sigma class glutathione transferase from the liver fluke *Fasciola hepatica*. *PLoS Negl Trop Dis*. 2012 May;6(5):e1666.
34. Soare T, Noble PJ, **Hetzel U**, Fonfara S, Kipar A, 2012. Paraneoplastic syndrome in haemophagocytic histiocytic sarcoma in a dog. *J Comp Path* 146(2-3), 168-174.