

Publikationer 2019

Baltzer Nielsen S, S Stanislaus, K Saunamäki, C Grøndahl, J Banner, MB Jørgensen. Can acute stress be fatal? A systematic cross-disciplinary review. *Stress*. 2019 May;22(3):286-294.

Bertelsen MF. Anaesthesia. In Girling S (eds.) *BSAVA Manual of Reptiles*. 3rd ed. 2019.

Bertelsen MF, ER Miller. *Journal of Zoo and Wildlife Medicine 1970-2019*. *Journal of Zoo and Wildlife Medicine* 2019, 50(1): 2-4.

Besenbacher S, C Hvilsom, T Marques-Bonet, T Mailund, MH Schierup

Direct estimation of mutations in great apes reconciles phylogenetic dating. *Nature Ecology and Evolution*. 2019, 3, 4022-4028.

Beumer L T ; FM van Beest, M Stelvig, NM Schmidt. Spatiotemporal dynamics in habitat suitability of a large Arctic herbivore: Environmental heterogeneity is key to a sedentary lifestyle. *Global Ecology and Conservation*, April 2019, Vol.18.

Boesen AH, A Thiel, B Fuchs, AL Evans, MF Bertelsen, I Rodushkin, JM Arnemo. Assessment of the LeadCare® Plus for use on Scandinavian Brown Bears (*Ursus arctos*). *Frontiers in Veterinary Science* Aug 28;6:285. doi: 10.3389/fvets.2019.00285.

Carlsen, F., T. de Jongh. 2018 European studbook for chimpanzees (*Pan troglodytes*). 2019. Copenhagen ZOO, Denmark

Chen L, Q Qiu, Y Jiang, K Wang, Z Lin, Z Li, F Bibi, Y Yang, J Wang, W Nie, W Su, G Liu, Q Li, W Fu, X Pan, C Liu, J Yang, C Zhang, Y Yin, Y Wang, Y Zhao, C Zhang, Z Wang, Y Qin, W Liu, B Wang, Y Ren, R Zhang, Y Zeng, RR da Fonseca, B Wei, R Li, W Wan, R Zhao, W Zhu, Y Wang, S Duan, Y Gao, YE Zhang, C Chen, C Hvilsom, CW Epps, LG Chemnick, Y Dong, S Mirarab, HR Siegismund, OA Ryder, MTP Gilbert, HA Lewin, G Zhang, R Heller, W Wang

Large-scale ruminant genome sequencing provides insights into their evolution and distinct traits. *Science*. 2019, 364 (6446), eaav6202

Dahlen B, C Traeholt. Successful aerial survey using thermal camera to detect wild orangutans in a fragmented landscape. *Journal of Indonesian Natural History* 2018 6(2): 12-23.

Greunz EM, K Lemberger, J Catinaud, B Chenet, MF Bertelsen. Amyloidosis in nine caracals (*Caracal caracal*) from European ZOOlogical institutions. Proceedings of the ZOO and Wildlife Health Conference, Kolmården, Sweden; Jun 2019, p. 114.

Greunz EM, D Límon, RL Petersen, G Grøndahl, MF Bertelsen. The impact of Vatinoxan on a medetomidine-based anaesthesia in Patagonian Maras (*Dolichotis patagonum*) Proceedings of the ZOO and Wildlife Health Conference, Kolmården, Sweden; Jun 2019, p. 52.

Hansen MF, VA Nawangsari, FM Beest, NM Schmidt, A Fuentes, C Traeholt, M Stelvig, T Dabelsteen. Estimating densities and spatial distribution of a commensal primate species, the long-tailed macaque (*Macaca fascicularis*). Conservation Science and Practice, September 2019, Vol.1(9)

Huda M, AF Fauzil, A.I Amran, C Traeholt, M Silmi. First record of hairy-nosed otter (*Lutra sumatrana*) in southern Central Kalimantan, Indonesia. *IUCN Otter Spec. Group Bull.* 2019 **36(2):** 98-102.

Ito M, AA Macdonald, K Leus, IW Balik, IWGB Arimbawa, IDGA Atmaja. Nest building behaviour of Sulawesi babirusa (*Babyrousa celebensis*). Japanese Journal of Zoo and Wildlife Medicine, 2019, 24, 9-20.

Ito M, AA Macdonald, K Leus, IW Balik, IWGB Arimbawa. Effects of meteorological factors on the expression of nesting behaviour in the Sulawesi babirusa (*Babyrousa celebensis*). Japanese Journal of Zoo and Wildlife Medicine, 2019, 24, 73-84.

Lauridsen H, S Gonzales, D Hedwig, KL Perrin, CJA Williams, PH Wrege, MF Bertelsen, M Pedersen, JT Butcher. Extracting physiological information in experimental biology via Eulerian video magnification. *BMC Biol.* 2019 Dec 12;17(1):103. doi: 10.1186/s12915-019-0716-7c

Lopes-Marques M, AM Machado, LQ Alves, MM Fonseca, S Barbosa, MHS Sinding, MH Rasmussen, MR Iversen, MF Bertelsen, PF Campos, R Da Fonseca, R Ruivo, LFC Castro. Complete Inactivation of Sebum-Producing Genes Parallels the Loss of Sebaceous Glands in Cetacea. *Molecular Biology and Evolution*, 2019, 36,6: 1270-1280.

Mahathir M, D Yawah, D Magintan, C Traeholt, NJN Jemali. Habitat utilization of a translocated Malayan tapir in Senaling Inas forest reserve, Negeri Sembilan. *Journal of Sustainability Science and Management* 2019, 14(4): 65-70.

Mota B, SE Dos Santos, L Ventura-Antunes, D Jardim-Messeder, K Neves, RS Kazu, S Noctor, KL Lambert, MF Bertelsen, PR Manger, CC Sherwood, JH Kaas, S Herculano-Houzel. White matter volume and white/gray matter ratio in mammalian species as a consequence of the universal scaling of cortical folding. *PNAS* 2019, 116(30):15253–15261.

Nguyen, V, R Riri, A Warling, L Sloan, M Saviano, B Wicinski, T Hård, MF Bertelsen, C Stimpson, K Bitterman, M Schall, P Hof, C Sherwood, P Manger, M Spocter, B Jacobs. Comparative neocortical neuromorphology in felids: African lion (*Panthera leo leo*), African leopard (*Panthera pardus pardus*), and cheetah (*Acinonyx jubatus jubatus*). *Journal of Comparative Neurology* 2019 Nov 21. doi:10.1002/cne.24823.

Pan H, TL Cole, X Bi, M Fang, C Zhou, Z Yang, DT Ksepka, T Hart, JL Bouzat, LS Argilla, MF Bertelsen, PD Boersma, CA Bost, Y Cherel, P Dann, SR Fiddaman, P Howard, K Labuschagne, T Mattern, G Miller, P Parker, RA Phillips, P Quillfeldt, PG Ryan, H Taylor, DR Thompson, MJ Young, MR Ellegaard, MTP Gilbert, MS Sinding, G Pacheco, LD Shepherd, AJD Tennyson, S Grosser, E Kay, LJ Nupen, U Ellenberg, DM Houston, AH Reeve, K Johnson, JF Masello, T Stracke, B McKinlay, PG Borboroglu, DX Zhang, G Zhang. High-coverage genomes to elucidate the evolution of penguins. *Gigascience*. 2019 Sep 1;8(9). pii: giz117.

Perrin KL, JL Willesen, J Koch, R Langhorn, AK Krogh, SS Nielsen, MF Bertelsen. Investigation into cardiovascular assessment of captive adult scarlet ibis (*Eudocimus ruber*). *Journal of Zoo and Wildlife Medicine* 2019, 50(1): 190–198.

Perrin KL, D Denk, AT Kristensen, SS Nielsen, MF Bertelsen. Epidemiology and pathology of elephant endotheliotropic herpesvirus fatalities in Europe. *Proceedings of the 51st Annual Conference of AAZV, St. Louis, MO, USA; Oct 2019, p. 100.*

Perrin KL, MF Bertelsen. Acute phase reactants in healthy, sick and devil facial tumour disease Tasmanian devils (*Sarcophilus harrisi*); *Proceedings of the Zoo and Wildlife Health Conference, Kolmården, Sweden; Jun 2019, p. 20*

Perrin KL, MF Bertelsen, D Denk, AT Kristensen, SS Nielsen. EEHV in Europe (1985–2017) – Review of unpublished case information in fatal and surviving Elephant endotheliotropic herpesvirus haemorrhagic disease cases. *Proceedings of International Conference on Avian, Herpetological and Exotic mammal medicine, London, UK; May 2019, p. 372*

Platt SG, L McCaskill, TR Rainwater, Y Temsiripong, M As-singkily, B Simpson, MR Bezuijen (2019). Siamese Crocodile, *Crocodylus siamensis*. in Crocodiles. Status Survey and Conservation Action Plan. Fourth Edition, ed. by S.C. Manolis and C. Stevenson. Crocodile Specialist Group: Darwin. [published online at

<http://www.iucncsg.org/pages/Publications.html>]

Sharney K, B Shwedick, B Simpson, C Stevenson (2019). Tomistoma, *Tomistoma schlegelii*. Pp. in Crocodiles. Status Survey and Conservation Action Plan. Fourth Edition, ed. by S.C. Manolis and C. Stevenson. Crocodile Specialist Group: Darwin. [published online at

<http://www.iucncsg.org/pages/Publications.html>]

Williams CG, LE James, MF Bertelsen, T Wang. Analgesia for non-mammalian vertebrates. *Current Opinion in Physiology* 2019, 11:75–84.

Williams CJ, EM Greunz, S Ringgaard, K Hansen, MF Bertelsen, T Wang. Magnetic Resonance Imaging (MRI) reveals high cardiac ejection fractions in red-footed tortoises (*Chelonoidis carbonarius*). *Journal of Experimental Biology* 2019 Sep 16;222(Pt 18). pii: jeb206714. doi: 10.1242/jeb.206714.