

Curriculum vitae

Adjunct Prof Dr. **Robert Hermes**, MRCVS, DipIECZM (ZHM)
Leibniz Institute for Zoo & Wildlife Research
Depart. Reproduction Management
Alfred-Kowalke-Str. 17, 10315 Berlin, Germany
Phone: +491704844061
hermes@izw-berlin.de



Personal data

Birth: 15.11.1969
Place of birth: Celle, Germany
Nationality: Germany

Professional education

2017 Diplome of the European College of Zoological Medicine
2013 facultas docendi (habilitation): wildlife conservation medicine
Veterinary University of Vienna, Austria
2001 Veterinary board certification: zoo and wildlife medicine
1998 Doctoral thesis, Freie Universität, Berlin, Germany
1995 Veterinary registration, Berlin, Germany
1989 – 1995 Faculty of veterinary medicine, Freie Universität Berlin, Germany

Employment

2000 – present Senior Scientist, Leibniz Institute for Zoo & Wildlife Research, Berlin
1998 – 2000 Post doc, Leibniz Institute for Zoo & Wildlife Research, Berlin
1995 – 1998 Post graduate, Leibniz Institute for Zoo & Wildlife Research, Berlin

Appointments and Awards

2019– present Veterinary Advisor European Endangered Species Program for Reproduction Management Group
2018 – present Veterinary Advisor European Endangered Species Program for equids
2018 – present adjunct Professor, Sydney University, School of Life and Environmental Science, Sydney Australia
2015 – 2018 adjunct associate Professor, Sydney University, School of Life and Environmental Science, Sydney Australia
2010 Recognition of outstanding contribution: Obstetrics in elephants.
3rd most downloaded article in Theriogenology 2009.
2009 – present Veterinary Advisor European Endangered Species Program for white rhinoceroses
2009 – present Veterinary Advisor to Rhinoceros Taxon Advisory Group of the European Association of Zoos and Aquaria (EAZA)

2007 – present	Scientific Associate, Taronga Conservation Society, Sydney, Australia
2007	Research Award for Outstanding Achievement in Scientific Research, The Australian Regional Association of Zoological Parks and Aquaria
2005 – present	Veterinary Fellow, Zoological Society London, London, UK
2002 – present	Fellow Researcher, Zoological Society of San Diego, CRES, USA
2000 – present	Associate scientist, Smithsonian Institution, Washington DC, USA

Lectures at universities

2013 -present	Assistant professor, Veterinary University of Vienna, Austria
2009 – 2013	Lecturer, Veterinary University of Vienna, Austria,
2000 – present	Lecturer, Veterinary Faculty, Freie Universität Berlin, Germany

Memberships

2008 –present	Member of the Royal College of Veterinary Surgeons (RCVS)
2000 –present	European Association of Zoo and Wildlife Veterinarians (EAZWV)
2001-2012	American Association of Zoo Veterinarians (AAZV)

International conferences and workshops

1998 – 2014	Presentations on 95 international conferences and workshops
1998 – 2014	Organization of 18 international workshops on wildlife reproduction

Research interests

Reproductive management and assisted reproduction of wildlife species

Ultrasound as imaging tool in wildlife reproduction

Cryopreservation of cryo-sensitive spermatoocytes of wildlife species

Gender-specific separation of sperm carrying X or Y chromosome.

Ten most important publications

1. Hermes R, Göritz F, Portas TJ, Bryant BR, Kelly JM, Maclellan LJ, Keeley T, Schwarzenberger F, Walzer C, Schnorrenberg A, Spindler RE, Saragusty J, Kaandorp S, Hildebrandt TB. Ovarian superstimulation, transrectal ultrasound-guided oocyte recovery, and IVF in rhinoceros. *Theriogenology* 2009; 72: 959–968.
2. Hermes R, Göritz F, Saragusty J, Sos E, Molnar V, Reid CE, Schwarzenberger F, Hildebrandt TB. First successful artificial insemination with frozen-thawed semen in rhinoceros. *Theriogenology* 2009; 71: 393–399.
3. Hermes R, Göritz F, Portas TJ, Bryant BR, Kelly JM, LJ, Keeley T, Schwarzenberger F, Walzer C, Schnorrenberg A, Spindler RE, Saragusty J, Kaandorp S, Hildebrandt TB. Ovarian superstimulation, transrectal ultrasound-guided oocyte recovery, and IVF in rhinoceros. *Theriogenology* 2009; 72: 959–968.
4. Hermes R, Hildebrandt TB, Walzer C, Göritz F, Gray C, Niemuller C, Schwarzenberger F. Oestrus induction in white rhinoceros. *Theriogenology* 2012; 78:1217-23.
5. Hermes R, Göritz F, Saragusty J, Stoops MA, Hildebrandt TB. Reproductive tract tumours: the scourge of woman reproduction ails Indian rhinoceroses. *PLoS One*. 2014; 9:e92595.
6. Hermes R, Saragusty J, Göritz F, Bartels P, Potier R, Baker B, Streich WJ, Hildebrandt TB. Freezing African elephant semen as a new population management tool. *PLoS One*. 2013;8(3):e57616.
7. Hildebrandt TB, Hermes R, Colleoni S, Diecke S, Holtze S, Renfree MB, Stejskal J, Hayashi K, Drukker M, Loi P, Göritz F, Lazzari G, Galli C. Embryos and embryonic stem cells from the white rhinoceros. *Nature Communications* 2018; 9:2589.

8. Hildebrandt TB, Hermes R, Walzer C, Sos E, Molnar V, Mezösi L, Schnorrenberg A, Silinski S, Streich JW, Schwarzenberger F, Göritz F. Artificial insemination in the anoestrous and the postpartum white rhinoceros using GnRH analogue to induce ovulation. *Theriogenology* 2007; 67: 1473–148.
9. Saragusty J, Hermes R, Hofer H, Bouts T, Göritz F, Hildebrandt TB. Male pygmy hippopotamus influence offspring sex ratio. *Nature communications* 2012; 3: 697 doi:10.1038/ncomms1700.
10. Roellig K, Goeritz F, Fickel J, Hermes R, Hofer H, Hildebrandt TB. Superconception in mammalian pregnancy can be detected and increases reproductive output per breeding season. *Nature communications* 2010;1: 78 doi:10.1038/ncomms1079.

Publication list (alphabetical by years):

2018

1. Hermes R, Hildebrandt TB, Goeritz F. Cryopreservation in rhinoceros-Setting a new benchmark for sperm cryosurvival. *PLOS ONE* 2018: 13 (7):e0200154.
2. Hildebrandt TB, Hermes R, Colleoni S, Diecke S, Holtze S, Renfree MB, Stejskal J, Hayashi K, Drukker M, Loi P, Göritz F, Lazzari G, Galli C. Embryos and embryonic stem cells from the white rhinoceros. *Nature Communications* 2018: 9:2589.
3. Hermes R., Saragusty J, Moser I., Holtze S, Nieter J, Sachse , Voracek T, Bernhard B, Bouts T, Göritz F, Hildebrandt TB. Bronchoalveolar lavage for diagnosis of tuberculosis infection in elephants. *Epidemiology and Infection* 146: 4; 481-488.

2017

1. Holtze S, Lukac M, Cizelj I, Mutschamnn F, Szentiks CA, Jelic D, Hermes R, Göritz F, Braude S, Hildebrandt TB. Monitoring health and reproductive status of olms (*Proteus anguinus*) by ultrasound. *Plos ONE* 2017: 12(8); e0182209
2. Potier R, Monge E, Loucachevsky T, Hermes R, Göritz F, Rochel D, Risi E. Effects of deslorelin acetate on plasma testosterone concentrations in captive yellow-bellied sliders (*Trachemys scripta* sp.). *Acta Veterinaria Hungarica* 2017: 65; 440 – 445.
3. Rickard PP, Ryan G, Hall E, de Graaf SP, Hermes R. Using transrectal ultrasound to examine the effect of exogenous progesterone on early embryonic loss in sheep. *Plos ONE* 2016: 12(7): e0183659.

2016

1. Greunz EM, Simon M, Lemberger K, Galateanu G, Hermes R, Leclerc A. Clinical management of bilateral cutaneous squamous cell carcinoma of the hind feet pads in a southern white rhinoceros (*Ceratotherium simum simum*). *Journal of Zoo and Wildlife Medicine* 2016: 47; 645 – 649.
2. Hermes R, Schwarzenberger F, Göritz F, Oh S, Fernandes T, Bernardino R, Leclerc A, Greunz E, Mathew A, Forsyth S, Saragusty J, Hildebrandt TB. Ovarian down Regulation by GnRF Vaccination Decreases Reproductive Tract Tumour Size in Female White and Greater One-Horned Rhinoceroses *Plos ONE* 2016: 11(7); e0157963.
3. Kretzschmar P, Kramer-Schad S, Ambu L, Bender J, Bohm T, Ernsing M, Göritz F, Hermes R, Payne J, Shcaffer N, Thayapara ST, Zainal ZZ, Hildebrandt TB, Hofer H. The catastrophic decline of the Sumatran rhino (*Dicerorhinus sumatrensis harrissoni*) in Sabah: Historic exploitation, reduced female reproductive performance and population viability. *Global Ecology and Conservation* 2016: 6; 257 – 275.
4. Prieto-Pablos MT, Sanchez-Calabuig MJ, Hildebrandt TB, Göritz F, Ortmann S, Eder S, Santiago-Moreno J, Hermes R, Saragusty J. Cryopreservation of captive roe deer (*Capreolus capreolus*) semen. *Theriogenology* 2016: 86; 695 – 703.
5. Saragusty J, Prieto MT, Courtiol A, Potier R, Göritz F, Hildebrandt TB, Hermes R. Sperm rescue in wild African elephants. *Reproduction Fertility and Development* 2016: 28; 1433 – 1442.

6. Saragusty J, Diecke S, Drukker M, Durrant B, Friedrich Ben-Nun I, Galli C, Göritz F, Hayashi K, Hermes R, Holtze S, Johnson S, Lazzari G, Loi P, Loring JF, Okita K, Renfree MB, Seet S, Voracek T, Stejskal J, Ryder OA, Hildebrandt TB. Rewinding the Process of Mammalian Extinction. *Zoo Biology* 2016; 35; 280 – 292.

2015

1. Abdelgawad A, Hermes R, Damiani A, Lamglait B, Czirják GÁ, East M, Aschenborn O, Wenker C, Kasem S, Osterrieder N, Greenwood AD (. Comprehensive Serology Based on a Peptide ELISA to Assess the Prevalence of Closely Related Equine Herpesviruses in Zoo and Wild Animals. *PLoS One* 2015; 10(9):e0138370.
2. Pablos MT, Saragusty J, Santiago-Moreno J, Stagegaard J, Göritz F, Hildebrandt TB, Hermes R. Cryopreservation of onager (equus hemionus onager) epididymal spermatozoa. *J Zoo Wildl Med* 2015; 46(3):517-25.
3. Saragusty J, Prieto MT, Courtiol A, Potier R, Göritz F, Hildebrandt TB, Hermes R. Sperm rescue in wild African elephants. *Reprod Fertil Dev.* 2015; doi: 10.1071/RD14378.

2014

4. Galateanu G, Hermes R, Saragusty J, Göritz F, Potier R, Mulot B, Maillot A, Etienne P, Bernardino R, Fernandes T, Mews J, Hildebrandt TB. Rhinoceros feet step out of a rule-of-thumb: a wildlife imaging pioneering approach of synchronized computed tomography-digital radiography. *PLoS One* 2014; 9(6):e100415.
5. Hermes R, Göritz F, Saragusty J, Stoops MA, Hildebrandt TB. Reproductive tract tumours: the scourge of woman reproduction ails Indian rhinoceroses. *PLoS One* 2014; 9(3):e92595.
6. Walzer C, Petit T, Stalder GL, Horowitz I, Saragusty J, Hermes . Surgical castration of the male common hippopotamus (*Hippopotamus amphibius*). *Theriogenology* 2014; 81(3):514-8.

2013

7. Galateanu G, Hildebrandt TB, Maillot A, Etienne P, Potier R, Mulot B, Saragusty J, Hermes R. One small step for rhinos, one giant leap for wildlife management--imaging diagnosis of bone pathology in distal limb. *PLoS One* 2013; 8(7):e68493.
8. Hermes R, Saragusty J, Göritz F, Bartels P, Potier R, Baker B, Streich WJ, Hildebrandt TB. Freezing African elephant semen as a new population management tool. *PLoS One* 2013; 8(3):e57616.
9. Regnault S, Hermes R, Hildebrandt T, Hutchinson J, Weller R. Osteopathology in the feet of rhinoceroses: lesion type and distribution. *J Zoo Wildl Med* 2013; 44(4):918-27.