

William F. Swanson
 Director of Animal Research
 Center for Conservation and Research of Endangered Wildlife
 Cincinnati Zoo & Botanical Garden, 3400 Vine Street, Cincinnati, OH 45220

Education/Training

Institution and Location	Degree	Year(s)	Field of Study
University of Texas, Austin, TX	B.S.	1982	Zoology
Texas A & M University, College Station, TX	D.V.M.	1988	Veterinary Medicine
Louisiana State University, Baton Rouge, LA	Ph.D.	1994	Animal Science
Smithsonian's National Zoological Park, Washington D.C.	Post-doc	1992-1994	Reproductive Physiology

Positions and Honors

Coordinator, Ocelot Species Survival Plan, Association of Zoos & Aquariums	2016-present
Duane Ullrey Achievement Award, American Association of Zoo Veterinarians	2015
Co-Chair, Felid Taxon Advisory Group, Association of Zoos & Aquariums	2002-2012
Coordinator, Fishing Cat Species Survival Plan, Association of Zoos & Aquariums	2001-2008
Director of Animal Research. Center for Conservation and Research of Endangered Wildlife, Cincinnati Zoo and Botanical Garden, Cincinnati, OH	1997-present
Gamete Biologist. Conservation & Research Center, National Zoological Park, Smithsonian Institution, Front Royal, VA.	1994-1997

Selected Peer-Reviewed Publications

- Swanson WF.** 2018. Practical application of laparoscopic oviductal artificial insemination for propagation of domestic cats and wild felids. *Reprod., Fert. Devel.* 31:27-39.
- Swanson WF** and LM Penfold. 2018. Captive wildlife breeding: mammals & birds. In: Skinner M (ed.), *Encyclopedia of Reproduction*, 2nd Edition. New York, NY: Academic Press; Pp. 782-790.
- Bateman HL and **WF Swanson.** 2017. Interaction of extender composition and freezing method for effective semen cryopreservation in the North American river otter (*Lontra canadensis*). *Theriogenology* 101:26-34.
- Swanson WF**, HL Bateman and LM Vansandt. 2016. Urethral catheterization and sperm vitrification for simplified semen banking in felids. *Reprod. Dom. Anim.* 52(Suppl. 2):255-260.
- MacKinnon KM, MJ Guilfoyle, **WF Swanson** and MA Stoops. 2015. Assessment of the reproductive physiology of the potto (*Perodicticus potto*) through fecal hormone metabolite analyses and trans-abdominal ultrasonography. *Zoo Biol.* 34:244-254.
- Conforti VA, HL Bateman, MM Schook, J Newsom, LA Lyons, RA Grahn, JA Deddens and **WF Swanson.** 2013. Laparoscopic oviductal artificial insemination improves pregnancy success in exogenous gonadotropin-treated domestic cats as a model for endangered felids. *Biol. Reprod.* 89:1-9.
- Vick MM, HL Bateman, CA Lambo and **WF Swanson.** 2012. Improved cryopreservation of domestic cat spermatozoa in a chemically defined medium. *Theriogenology* 78:2120-2128.
- Herrick JR, M Campbell, G Levens, T Moore, K Benson, J D'Agostino, G West, D Okeson, R Coke, S Portacio, K Leiske, C Kreider, PJ Polumbo and **WF Swanson.** 2010. In vitro fertilization and sperm cryopreservation in the black-footed cat (*Felis nigripes*) and sand cat (*Felis margarita*). *Biol. Reprod.* 82:552-562.
- Herrick JR, JB Bond, M Campbell, G Levens, T Moore, K Benson, J D'Agostino, G West, D Okeson, R Coke, S Portacio, K Leiske, C Kreider, PJ Polumbo and **WF Swanson.** 2010. Fecal endocrine

- profiles and ejaculate traits in black-footed cats (*Felis nigripes*) and sand cats (*Felis margarita*). Gen. Comp. Endocrin. 165:204-214.
- Wildt D, **WF Swanson**, J Brown, A Sliwa and A Vargas. 2010. Felids *ex situ* for managed programmes, research and species recovery. In: Macdonald DW, AJ Loveridge (eds). Biology and Conservation of Wild Felids. Oxford, UK: Oxford University Press; Pp. 217-235.
- Herrick JR, JB Bond, GM Magarey, HL Bateman, RL Krisher, SA Dunford and **WF Swanson**. 2007. Development of a feline optimized culture medium: effects of ions, carbohydrates, essential amino acids, vitamins and serum on the development and metabolism of IVF-derived feline embryos relative to embryos grown *in vivo*. Biol. Reprod. 76:858-870.
- Swanson WF**, MA Stoops, GM Magarey and JR Herrick. 2007. Sperm cryopreservation in endangered felids: developing linkage of *in situ* – *ex situ* populations. In: Roldan E, M Gomenido (eds.). Spermatology. Nottingham, UK: Nottingham University Press; Pp. 417-432.
- Swanson WF**, DJ Maggs, HE Clarke, AE Newell, JB Bond, HL Bateman and S Kennedy-Stoskopf. 2006. Assessment of viral presence in semen and reproductive function of frozen-thawed spermatozoa from Pallas' cats (*Otocolobus manul*) infected with feline herpesvirus. J. Zoo Wildl. Med. 37:336-346.
- Gloor KT, GD Winget and **WF Swanson**. 2006. Conservation science in a terrorist age: the impact of airport security screening on the viability and DNA integrity of frozen felid spermatozoa. J. Zoo Wildl. Med. 37:327-335.
- van Dorsser FJH, **WF Swanson**, S Lasano and BG Steinetz. 2006. Development, validation and application of a urinary relaxin radioimmunoassay for pregnancy diagnosis and monitoring in felids. Biol. Reprod. 74:1090-1095.
- Swanson WF**. 2006. Application of assisted reproduction for population management in felids: the potential and reality for conservation of small cats. Theriogenology 66:49-58
- Thiangtum K, **WF Swanson**, JG Howard, W Tunwattana, D Tongthainan, W Wichasilpa, P Patumrattanathan and T Pinyopoommintr. 2006. Assessment of basic seminal characteristics, sperm cryopreservation and heterologous *in vitro* fertilization in the fishing cat (*Prionailurus viverrinus*). Reprod. Fertil. Devel. 18:373-382.
- Swanson WF** and JL Brown. 2004. International training programs in reproductive sciences for conservation of Latin American felids. Anim. Reprod. Sci. 82:21-34.
- Swanson WF**, WE Johnson, RC Cambre, SB Citino, KB Quigley, DM Brousset, RN Morais, N Moreira, SJ O'Brien and DE Wildt. 2003. Reproductive status of endemic felid species in Latin American zoos and implications for *ex situ* conservation. Zoo Biol. 22:421-441.
- Swanson WF**, BA Wolfe, JL Brown, T Martin-Jimenez, JE Riviere, TL Roth and DE Wildt. 1997. Pharmacokinetics and ovarian-stimulatory effects of equine and human chorionic gonadotropins administered singly and in combination in the domestic cat. Biol. Reprod. 57:295-302.
- Howard JG, TL Roth, AP Byers, **WF Swanson** and DE Wildt. 1997. Sensitivity to exogenous gonadotropins for ovulation induction and laparoscopic artificial insemination in the cheetah and clouded leopard. Biol. Reprod. 56:1059-1069.
- Swanson WF**, JG Howard, TL Roth, JL Brown, T Alvarado, M Burton, D Starnes and DE Wildt. 1996. Responsiveness of ovaries to exogenous gonadotrophins and laparoscopic artificial insemination with frozen-thawed spermatozoa in ocelots (*Felis pardalis*). J. Reprod. Fertil. 106:87-94.
- Swanson WF**, TL Roth, JL Brown and DE Wildt. 1995. Relationship of circulating steroid hormones, luteal LH receptor and progesterone concentration, and embryonic mortality during early embryogenesis in the domestic cat. Biol. Reprod. 53:1046-1053.
- Swanson WF**, DW Horohov and RA Godke. 1995. Production of exogenous gonadotrophin-neutralizing immunoglobulins in cats following repeated eCG/hCG treatment and relevance for assisted reproduction in felids. J. Reprod. Fertil. 105:35-41.
- Roth TL, **WF Swanson** and DE Wildt. 1994. Developmental competence of domestic cat (*Felis catus*) embryos fertilized *in vivo* versus *in vitro*. Biol. Reprod. 51:441-451.
- Swanson WF**, TL Roth and DE Wildt. 1994. *In vivo* embryogenesis, embryo migration and embryonic mortality in the domestic cat. Biol. Reprod. 51:452-464.