

Jessye Wojtusik
 Post-Doctoral Scientist
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Education/Training

Institution and Location	Degree	Year(s)	Field of Study
Cornell University, Ithaca, NY	B.S.	2008	Animal Science
Cornell University, Ithaca, NY	M.S.	2011	Reproductive Physiology
George Mason University, Fairfax, VA	Ph.D.	2015	Reproductive Physiology

Positions and Honors

IMLS Polar Bear Conservation Post-Doctoral Fellow	2019-present
Rhino Taxonomy Advisory Group Reproduction Co-Advisor	2018-present
Center of Excellence for Iron Overload Disorder in Browsing Rhinos Member	2018-present
Rhino Signature Conservation Post-Doctoral Fellow	2016-2019
Association of Zoos and Aquariums, Professional Affiliate	2016-present
Rhino Signature Conservation Project Fellowship	2016-2019
George Mason University Graduate Teaching Assistantship	2011-2015
USDA NRI CSREES Merit Award	2010
SSR Larry Ewing Memorial Trainee Travel Fund Scholarship	2009, '10, '15
Cornell University Graduate Student Conference Grant	2009 & 2010
Cornell University Master of Science Thesis Funding Award	2009-2011

Peer-Reviewed Publications

- Wojtusik J**, Brandicourt IMC, Rice W, and TL Roth. 2019. Reproductive cycle and pregnancy monitoring in the common hippopotamus (*Hippopotamus amphibius*) through salivary steroid analyses and trans-abdominal ultrasonography. (*under review*).
- Curry E, Easley JS, **Wojtusik J**, and TL Roth. 2019. Identification of mink (*Neovison vison*) fecal proteins during embryonic diapause and placental pregnancy for non-invasive pregnancy diagnosis in wildlife. (*under review*).
- Wojtusik J**, Stoops MA, and TL Roth. 2019. Animal protein-free OptiXcell and shortened equilibration periods can replace egg yolk-based extender and slow cooling for rhinoceros semen cryopreservation. *Cryobiology*, 89:21-25.
- Wojtusik J**, Stoops MS, and TL. Roth. 2018. Comparison of soy lecithin, coconut water, and coconut milk as substitutes for egg-yolk in semen cryodiluent for black rhinoceros (*Diceros bicornis*) and Indian rhinoceros (*Rhinoceros unicornis*). *Theriogenology*, 121:72-77.
- Wojtusik J** and TL Roth. 2018. Investigation of factors potentially associated with serum ferritin concentrations in the black rhinoceros (*Diceros bicornis*) using a validated rhinoceros-specific assay. *Journal of Zoo and Wildlife Medicine*, 49:297-306.
- Wojtusik J**, Wang Y, and BS Pukazhenth. 2018. Pretreatment with cholesterol-loaded cyclodextrins prevents loss of motility associated proteins during cryopreservation of addra gazelle (*Nanger dama ruficollis*) spermatozoa. *Cryobiology*, 81:74-80.
- Wojtusik J**, Brown JL, and BS Pukazhenth. 2017. Non-invasive hormonal characterization of the ovarian cycle, pregnancy, and seasonal anestrus of the female addra gazelle (*Nanger dama ruficollis*). *Theriogenology*, 95:96-104.
- Wojtusik J**, Pennington P, Songsasen N, Padilla LR, Citino SB, and BS Pukazhenth. 2016.

Pretreatment of addra gazelle (*Nanger dama ruficollis*) spermatozoa with cholesterol-loaded cyclodextrins improves cryosurvival. *Cryobiology*, 73:388-395.

Wojtusik J and PA Johnson. 2012. Vitamin D regulates anti-Müllerian hormone expression in granulosa cells of the hen. *Biology of Reproduction*, 86:91, 1-7.

Kundu MC, **Wojtusik J**, and PA Johnson. 2012. Expression and regulation of kit ligand in the ovary of the hen. *General and Comparative Endocrinology*, 179:47-52.

Select Abstracts and Presentations

Wojtusik J, Brandicourt IMC, Rice W, and TL Roth. 2019. Reproductive cycle and pregnancy monitoring in the common hippopotamus (*Hippopotamus amphibius*) through salivary analyses and trans-abdominal ultrasonography. Oral presentation at the 45th International Embryo Technology Society (IETS) Annual Conference.

Wojtusik J, Stoops MA, and TL Roth. 2018. OptiXcell is a comparable animal protein-free alternative to egg-yolk based extender for rhinoceros semen cryopreservation. Poster presentation at 2018 Society for the Study of Reproduction (SSR) Meeting.

Wojtusik J, Stoops MA, and TL Roth. 2017. Use of animal-protein free extenders as alternatives to standard egg-yolk based extender in semen cryopreservation of the black rhino (*Diceros bicornis*) and Indian rhino (*Rhinoceros unicornis*). Poster presentation at 11th International Conference on Behaviour, Physiology and Genetics of Wildlife.

Wojtusik J and TL Roth. 2016. Validation of a rhino specific ferritin enzyme immunoassay for the black rhinoceros (*Diceros bicornis*) for assessing the impact of individual and environmental factors on serum ferritin concentrations. Oral presentation at the 15th International Elephant and Rhino Conservation and Research Symposium.

Wojtusik J, Songsasen N, Penfold L, Citino S, and BS Pukazhenth. 2013. Pretreatment of Dama gazelle (*Nanger dama ruficollis*) spermatozoa with cholesterol-loaded cyclodextrins improves cryosurvival. *Cryobiology*: 67(3):433. Poster presentation at 2013 Cryobiology meeting.

Wojtusik J and PA Johnson. 2010. Vitamin D3 regulates anti-Müllerian hormone expression in granulosa cells of the hen. *Biology of Reproduction*: 83:614. Poster presentation at 2010 SSR meeting.

Wojtusik J, Kundu MC, and PA Johnson. 2009. The regulation of anti-Müllerian hormone expression in granulosa cells of the hen. *Biology of Reproduction*: 81:504. Poster presentation at 2009 SSR meeting.