

Erin Curry
 Reproductive Physiologist
 Center for Conservation and Research of Endangered Wildlife (CREW)
 Cincinnati Zoo & Botanical Garden
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Education/Training

Institution and Location	Degree	Year	Field of Study
University of Delaware, Newark, DE	B.S.	2003	Animal Science
Clemson University, Clemson, SC	M.S.	2007	Reproductive Physiology
Clemson University, Clemson, SC	Ph.D.	2010	Reproductive Phys / Mol Bio

Positions and Honors

Dean's List, University of Delaware	1999-2003
Alpha Zeta Award for Scholastic Achievement, University of Delaware	2000
Graduate Teaching Assistantship, Clemson University	2005-2007
Graduate Research Assistantship, Clemson University	2007-2010
Outstanding Graduate Researcher Award, Clemson University	2010
Post-Doctoral Fellow, CREW	2011-2014
1 st Place Trainee Presentation, Internat'l Symp on Canine & Feline Reproduction	2012
Reproductive Physiologist, CREW	2014-present
Adjunct Assistant Professor, University of Cincinnati	2015-present
YWCA Rising Star Award, Cincinnati, OH	2016
Polar Bear Research Council, Reproductive Advisor	2017-present
Red Panda SSP, Research Advisor	2017-present

Peer-Reviewed Publications

- Curry E, Easley JS, Wojtusik J, Roth TL (2019) Identification of mink (*Neovison vison*) fecal proteins during embryonic diapause and placental pregnancy for non-invasive pregnancy diagnosis in wildlife. (*under review*)
- Steinman KJ, O'Brien JK, Fetter GA, Curry E, Roth TL, Owen MA, Robeck TR. (2017). Enzyme immunoassay analysis for androgens in polar bear (*Ursus maritimus*) urine using enzyme hydrolysis. *Aquatic Mammals*. 43: 245-253
- Curry E, Browning L, Reinhart P, Roth TL. (2017). Integrating trans-abdominal ultrasonography with fecal steroid metabolite monitoring to accurately diagnose pregnancy and predict the timing of parturition in the red panda (*Ailurus fulgens styani*). *Zoo Biology* 36:193-200.
- Curry E, Safayi S, Meyerson R, Roth TL. (2015). Reproductive trends of captive polar bears (*Ursus maritimus*) in North American zoos: a historical analysis. *Journal of Zoo and Aquarium Research* 3:99-106.
- Curry E, Wyatt J, Sorrel L, MacKinnon KM, Roth TL. (2014). Ovulation induction and artificial insemination of a captive polar bear (*Ursus maritimus*) using fresh semen. *Journal of Zoo and Wildlife Medicine* (*in press*)
- Curry E, Roth TL, MacKinnon KM, Stoops MA. (2012). Factors influencing annual fecal testosterone metabolite profiles in captive male polar bears (*Ursus maritimus*). *Reproduction in Domestic Animals* 47:222-225.

- Stowe HM, Curry E, Calcaterra SM, Krisher RL, Paczkowski MJ, Pratt SL. (2012). Cloning and expression of porcine Dicer and the impact of developmental stage and culture conditions on microRNA expression in porcine embryos. *Gene* 501:198-205.
- Curry E, Stoops MA, Roth TL. (2012). Non-invasive detection of candidate pregnancy protein biomarkers in the feces of captive polar bears (*Ursus maritimus*). *Theriogenology* 78:308-314.
- Curry E, Safranski TJ, Pratt, SL. (2011). Differential expression of porcine sperm microRNAs and their association with sperm morphology and motility. *Theriogenology* 76:1532-1539.
- Davis SE, Curry E, Gibbons JR. (2011). Commercial application and cost analysis of a 5 day co-synch synchronization protocol. *Clinical Theriogenology* 3:129-134.
- Pratt SL, Burns TA, Curry E, Duckett SK. (2010). Expression of microRNA during bovine adipogenesis. *Journal of Nucleic Acid Investigations* 1:62-70.
- Curry E, Davis SE, Gibbons JR. (2010). Advances in sex ratio management in cattle. *Clinical Theriogenology* 2:29-40.
- Curry E, Pratt SL, Lapin DR, Gibbons JR. (2009). Efficacy of a commercially available post-thaw bovine semen sexing kit in both single-ovulating and hyperstimulated cows. *Animal Reproduction Science* 116:376-380.
- Curry E, Ellis SE, Pratt SL. (2009). Detection of porcine sperm microRNAs using a heterologous microRNA microarray and reverse transcriptase polymerase chain reaction. *Molecular Reproduction & Development* 76:218-219.
- Curry E, Pratt SL, Kelley DE, Lapin DR, Gibbons JR. (2008). Use of a combined duplex PCR/dot blot assay for more sensitive genetic characterization. *Biochemistry Insights* 1:43-47.

Select Abstracts and Presentations (of >30)

- Curry E, Easley JS, Wojtusik J, Roth TL (2019). Oral presentation. Evaluating mink fecal proteins during embryonic diapause and placental pregnancy for non-invasive pregnancy diagnosis. 3rd International Symposium on Embryonic Diapause. Ascona, Switzerland (June 2nd-6th).
- Curry E, Stoops MA, Roth TL (2019). Poster presentation. Fecal metabolite monitoring as a tool to assess sexual maturation in polar bears. Proceedings of the International Embryo Transfer Society 45th Annual Conference. New Orleans, LA (January 20th-January 23rd).
- Curry E and Roth TL. (2017). Poster presentation. A rapid method of semen collection from polar bears immobilized with medetomidine. Proceedings of the 22nd Biennial Society for Marine Mammalogy. Halifax, Nova Scotia (October 22nd-27th).
- Curry E, Roth TL, MacKinnon KM, Stoops MA. (2016). Poster presentation. Monitoring the long-term effects of contraceptives on the fertility of captive polar bears (*Ursus maritimus*). International Congress on Canine and Feline Reproduction. Paris, France (June 22nd-25th).
- Curry E, Stoops MA, DeLorenzo CJ, MacKinnon KM, Roth TL. (2016). Oral presentation. Using the *ex situ* population to advance the reproductive science of polar bears. 24th International Conference on Bear Research and Management. Anchorage, AK (June 12th-16th).
- Curry E and Roth TL. (2016). Poster presentation. A rapid, minimally-invasive method of collecting semen from polar bears. Proceedings of the International Embryo Transfer Society 42nd Annual Conference. Louisville, KY (January 23rd-January 26th).