

CREW's Most Recent Peer-reviewed Rhino Scientific Publications

- Roth, TL. 2024. That was then, this is now – Over two decades of progress in rhinoceros reproductive science and technology. *Theriogenology Wild* 4, doi: 10.1016/j.therwi.2023.100065.
- Rispoli, LA and TL Roth. 2023. Validation of the iSperm for assessing rhinoceros sperm. *Theriogenology Wild* 3, doi: 10.1016/j.therwi.2023.100048.
- Roth TL, EM Donelan, LA Rispoli and T Reilly. 2023. Prolactin enzyme-linked immunosorbent assay for rhinoceroses—another tool for assessing reproductive function and dysfunction in this taxon. *Theriogenology Wild*, doi: 10.1016/j.therwi.2023.100035.
- Roth TL, M Philpott and J Wojtusik. 2022. Rhinoceros serum labile plasma iron and associated redox potential: interspecific variation, sex bias and iron overload disorder disconnect. *Conservation Physiology* 10(1), <https://doi.org/10.1093/conphys/coac025>
- Wojtusik J, E Curry and TL Roth. 2021. Rhinoceros serum microRNAs: Identification, characterization, and evaluation of potential iron overload biomarkers. *Frontiers in Veterinary Science* 8:711576.
- Pollock, KE, JK O'Brien, TL Roth, J Proudfoot, J Niederlander, L Micheas, TR Robeck and MA Stoops. 2020. Anti-Müllerian hormone in managed African and Asian rhino species. *General and Comparative Endocrinology* 294, DOI: <https://doi.org/10.1016/j.yggen.2020.113487>
- Roth TL, A Switzer, M Watanabe-Chailland, EM Bik, DA Relman, LE Romick-Rosendale and NJ Ollberding. 2019. Reduced gut microbiome diversity and metabolome differences in rhinoceros species at risk for iron overload disorder. *Frontiers in Microbiology*, DOI: <https://doi.org/10.3389/fmicb.2019.02291>
- Wojtusik J, MA Stoops 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*, DOI: <https://doi.org/10.1016/j.cryobiol.2019.06.003>
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- Wojtusik J, MA Stoops 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(2):297-306.

- Roth TL, MW Schook and MA Stoops. 2017. Monitoring and controlling ovarian function in the rhinoceros. *Theriogenology* 109:14-21. DOI: <https://doi.org/10.1016/j.theriogenology.2017.12.007>
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