

Publications:

Book Chapters

**Horstmann, L.** (2020) Anatomy and physiology of the gastro-intestinal system. In: J.C. George, J.G.M. Thewissen (eds) The bowhead whale *Balaena mysticetus*: Biology and human interactions. Academic Press. ISBN: 9780128189696

George, J.C., **Horstmann, L.**, Fortune, S., Sformo, T., Elsner, R., Follmann, E. (2020) Thermoregulation and energetics. In: J.C. George, J.G.M. Thewissen (eds) The bowhead whale *Balaena mysticetus*: Biology and human interactions. Academic Press. ISBN: 9780128189696

Stimmelmayer, R., **Horstmann, L.**, Person, B., George, J.C. (2020) Hematology, serum, and urine composition. In: J.C. George, J.G.M. Thewissen (eds) The bowhead whale *Balaena mysticetus*: Biology and human interactions. Academic Press. ISBN: 9780128189696

**Horstmann-Dehn, L.** (2017) Gastrointestinal tract of marine mammals. Encyclopedia of Marine Mammals. 3rd edition. Elsevier.

Publications – peer-reviewed (underlined text indicates student author)

Charapata, P., **Horstmann, L.**, Misarti, N. (*In Revision*) Pacific walrus bones reveal changes in stress-related and reproductive steroid hormones over the last 3 millennia. Conservation Physiology.

Clark, C.T., **Horstmann, L.**, Misarti, N. (*In Press*) Evaluating tooth strontium and barium as indicators of weaning age in Pacific walruses. Methods in Ecology and Evolution.

Karpovich, S., **Horstmann, L.**, Polasek, L. (2020) Validation of a novel method to create temporal records of hormone concentrations from the claws of ringed and bearded seals. Conservation Physiology. <https://doi.org/10.1093/conphys/coaa073>

Taylor, N., Clark, C.T., Misarti, N., **Horstmann, L.** (2020) A cost effective method to determine Pacific walrus sex from skeletal remains. Journal of Mammalogy. <https://doi.org/10.1093/jmammal/qyaa051>

Ohlberger, J., Schindler, D., Brown, R., Harding, J., Adkison, M., Munro, A., **Horstmann, L.**, Spaeder, J. (2020) The reproductive value of large females: Consequences of shifts in demographic structure for population reproductive potential in Chinook salmon. Canadian Journal of Fisheries and Aquatic Science. <https://doi.org/10.1139/cjfas-2020-0012>

Clark, C.T., **Horstmann, L.**, Misarti, N. (2020) Zinc concentrations in the teeth of female walruses reflect the onset of reproductive maturity. Conservation Physiology 8:coaa029. <https://doi.org/10.1093/conphys/coaa029>

Miller, C.A., Holm, H., **Horstmann, L.**, George, J.C., Fredricks, H., Van Mooy, B., Apprill, A. (2019). Coordinated transformation of the gut microbiome and lipidome of bowhead whales provides novel insights into digestion. ISME Journal. <https://doi.org/10.1038/s41396-019-0549-y>

Smith, J., Karpovich, S., **Horstmann, L.**, McIntyre, J., O'Brien, D. (2019) Seasonal differences in foraging and isotopic niche width related to body size in Gulf of Alaska harbor seals. Canadian Journal of Zoology. <https://doi.org/10.1139/cjz-2019-0108>

Clark, C.T., **Horstmann, L.**, Misarti, N. (2019) Lipid normalization and stable isotope discrimination in Pacific walrus tissues. Scientific Reports 9:5843. <https://doi.org/10.1038/s41598-019-42095-z>

Clark, C.T., **Horstmann, L.**, de Vernal, A., Jensen, A.M., Misarti, N. (2019) Pacific walrus diet across 4,000 years of changing sea ice conditions. Quaternary Research. <https://doi.org/10.1017/qua.2018.140>

Dissen, J.N., Oliveira, A., **Horstmann, L.**, Hardy, S.M. (2018) Regional and temporal variation in fatty acid profiles of polar cod (*Boreogadus saida*) in Alaska. Polar Biology 41: 2495-2510. <https://doi.org/10.1007/s00300-018-2386-2>

Charapata, P., **Horstmann, L.**, Jannasch, A., Misarti, N. (2018) A novel method to measure steroid hormone concentrations in walrus bone from archaeological, historical, and modern time periods using LC/MS/MS. Rapid Communications in Mass Spectrometry 32:1999-2023. <https://doi.org/10.1002/rcm.8272>

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- Clark, C., Horstmann, L., Misarti, N. (2017) Quantifying variability in stable carbon and nitrogen isotope ratios within the skeletons of marine mammals of the suborder Caniformia. *Journal of Archeological Science: Reports* 15: 393-400. <https://doi.org/10.1016/j.jasrep.2017.09.007>
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