



Michael K. Stoskopf



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Ecological Metabolomics - aquatic & terrestrial wildlife

Research emphasis:

Dr. Stoskopf investigates effects of environmental impacts (physical, nutritional, toxicological) on the physiology of wildlife and adaptations to those impacts. He directs the Marine Magnetic Resonance Facility at NCSU's Center for Marine Sciences and Technology. His Marine Ecological Metabolomics Laboratory focuses on assessment of metabolic adaptations of wildlife to environmental impacts including global change. He is a Co-PI of the Southeastern Climate Science Center and actively involved in the Center for Comparative Medicine and Translational Research's Conservation Genomics Working Group. He is active in several endangered species recovery efforts contributing insights into habitat health risk assessment.

Selected publications:

E. Gese, F. Knowlton, J. Adams, K. Beck, T. Fuller, D. Murray, T. Steury, **M. K. Stoskopf**, W. Waddell, L. Waits. (2015) Addressing Challenges from Hybridization in Endangered Species Recovery: the Red Wolf as a Case Study. *Current Zoology* 61: 191-203.

Niemuth, J.N., C.A. Harms, **M.K. Stoskopf** (2015) Effects of Processing Time on Whole Blood and Plasma Samples from Loggerhead Sea Turtles (*Caretta caretta*) for ¹H-NMR-Based Metabolomics. *Herpetological Conservation Bio.* 10(1):149-160.

Hurley-Sanders, J., Levine, J., Nelson, S., Law, M., Showers, W., **Stoskopf, M.K.** (2015) Key metabolites in tissue extracts of *Elliptio complanata* identified using ¹H Nuclear Magnetic Resonance (NMR) spectroscopy. *Conservation Physiology.* 3 (1): cov023 doi: 10.1093/conphys/cov023

Tikunov, Andrey P., **Michael K. Stoskopf**, Jeffrey M. Macdonald (2014) Fluxomics of the Eastern Oyster for Environmental Stress Studies. *Metabolites* 4: 53-70. DOI 10.3390/metabo4010053

Application:

- Aquatic & Terrestrial Wildlife Health Assessment
- Ecological Metabolomics
- Capture, Immobilization, Sampling

Collaboration potential:

- NMR based Metabolomics
- Habitat Health Risk Assessment
- Wildlife Physiology
- Imaging/Anatomy