Genetics and Genomics (G2) Seminar Series



The Interdisciplinary Faculty of Genetics
Genetics Graduate Student Association



Extreme environments, physiological adaptation and the origin of species

Dr. Michael Tobler

Department of Biology, Kansas State University

Our work uses extremophile fishes as a model to ask questions about the origins of functional trait diversity and speciation. We study how selection shapes genetic changes modification of mediate adaptive properties and physiological processes that govern organismal function, and how the resulting functional differences among diverging populations reproductive isolation. We leverage over a dozen independent lineages of fishes in sulfide springs and representative lineages from non-sulfidic environments to determine how ecological, genetic, and functional factors contribute to convergence at macroevolutionary scales and test when and why evolutionary change is repeatable and predictable.



Monday, December 4, 2017

3:30 p.m.

Rudder Tower 410

Seminar co-hosted with the Ecology & Evolutionary Biology (EEB) Seminar Series

Host: Dr. Gary Voelker gvoelker@tamu.edu

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Texas A&M Institute for Genome Sciences and Society (TIGSS)