CENTER FOR BIOMEDICAL RESEARCH (CBR)

Population Genetics/Genomics

Natural Selection and Speciation Studies

- •Evolutionary ecology of topminnows (genus *Fundulus*).
- •Chromosomal rearrangements and reproductive isolation.
- Evolution of metabolic pathway genes in *Drosophila*.Retrotransposable elements in vertebrate genomes.

Techniques and Applications

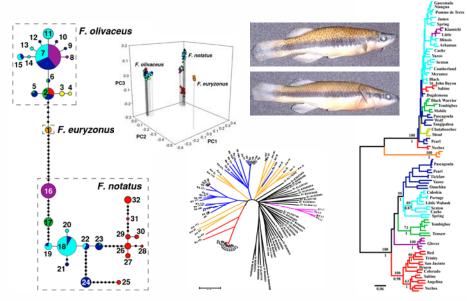
- •SNP sampling using NGS techniques.
- •Phylogenetic methods for studying gene and organism histories.
- •Analysis of genetic variation in populations.
- •Molecular tests of natural selection.

Contact Information:

David Duvernell Professor Department of Biological Sci. Email: duvernelld@mst.edu Phone: (573) 341-6988

Google Scholar Profile





Keywords

•Single Nucleotide Polymorphism, Next Generation Sequencing, Genotype by Sequencing, phylogenetics, population genetics, natural selection, speciation.

CBR Research

Federal Funding

- National Science Foundation 2002, 2007, 2013, 2016.
- National Institutes of Health 2002.

