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

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