BEACON progress report, September 2012

*An Integrated Approach to Testing Divergence with Gene Flow Model of Speciation; Empirical Genomics: Simulation, and In Silico Evolution*

PI’s Jack Sullivan, David Hillis, James Foster

**Progress:**

EJM was a visiting student at University of Idaho from September 19, 2012- October 19, 2012. At UIdaho she developed simulation ideas for this project with collaborators Jack Sullivan, James Foster, and Brice Sarver. In addition she attended discussion groups with BEACON PI’s Luke Harmon and Holly Wickman. While at Idaho she presented at a BEACON Friday meeting (Oct 9) and gave a seminar to the iBEST group at UIdaho. In addition EJM attended the December NSF Site visit and presented her research to the site visit committee. At the University of Texas EJM is organizing and will be teaching at a BEACON sponsored Software Carpentry Workshop in December, which teaches basic computational skills to biologists. Ninety participants, including many UT BEACONites have already signed up.

**Publications acknowledging BEACON support:**

**McTavish, E.J**.\*, G.K. Smith\*, R.F. Guerrero, and E. J. Gering. In press. Flight morphology variation in a damselfly with female limited polymorphism. Evolutionary Ecology Research

**Goals for 2012-2013 academic year:**

Write a manuscript for this project:

Approximate title “Chipmunk mtDNA genome, and analysis of patterns of selection vs. surfing”

Responsibilities:

Brice (assembly, codon models?...)

McTavish (Alternative models for outcomes under surfing vs. demographic

with selection)