PBIO/BIO 381 – Ecological Genomics

01/18/17

Definitions:

* Genetic source of adaptations
* Approaches and tools for Relationship geno/pheno/environment
* Environmental change and adaptations

Questions:

* Genes expressed at certain times
* metagenomes and metabolic potential
* independence from genetic code in epigenetics
* patterns of diversity
* constraints in genomes

Methods:

* De-novo
* Differential expression analysis: RNA-Seq
* Microbial community diversity, 16S metagenomics
* Reduced genome, a sample, RAD-Seq

Processes:

Interest: speciation and hybridization

Melissa’s and Steve’s story