

MCB 493 EGD

Exploring Genomic Data

Spring Only, 1 Hr

OVERVIEW: Students will learn to work in a computer lab with processing, assembly, and analysis of next generation sequencing data for a hands-on view of natural variation at the genome level. Each semester a class project will be developed, analyzed and completed by students meeting once a week for one hour to work with primary sequence data with instructor guidance and infrastructure provided. Spring 2017 students will analyze virus-host interactions in the human lung and gut microbiomes using sequence assemblies of CRISPR sequences from microbial metagenomes.

Counts as advanced MCB course credit.

**Instructors: Dr. Rachel J. Whitaker
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