Learning Objectives:

STAT 446/646 is an applied statistics course covering the analysis of "-omic" data with R. At the end of the semester, students will be able to use R to:

• work with R packages from Bioconductor.
• analyze genomic sequence data.
• analyze expression microarray data.
• analyze genome-wide association study data.
• analyze next-generation sequencing data.
• analyze mass spectrometry data.
• analyze protein structure data.
• perform classification analysis on -omics data.