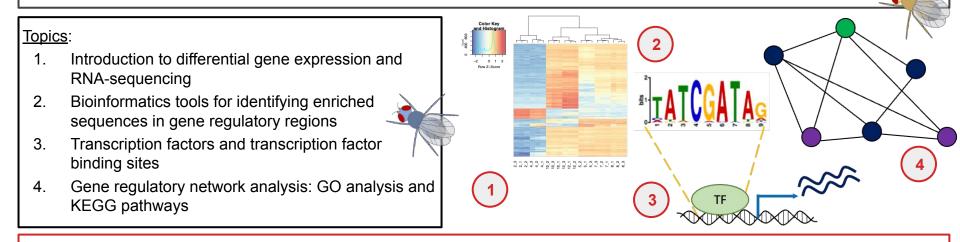


Fly-ing Beyond the Transcriptome: Transcriptional Regulation and Gene Networks

Overview:

- Students will use publicly available Drosophila transcriptome data to identify patterns of gene expression across conditions
- Using identified groups of genes, students will complete motif enrichment analysis to examine regulatory sequences in upstream regions of the genes
- Students will synthesize findings to construct a model of gene regulation and outline future experimental testing and hypotheses



The course will be designed to allow students to explore RNA-sequencing data, build confidence using computational tools for analysis, and connect findings from sequencing data to regulatory networks!