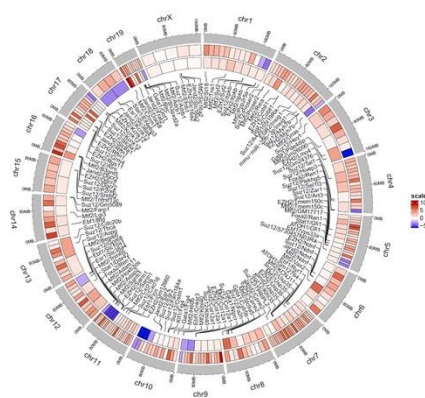
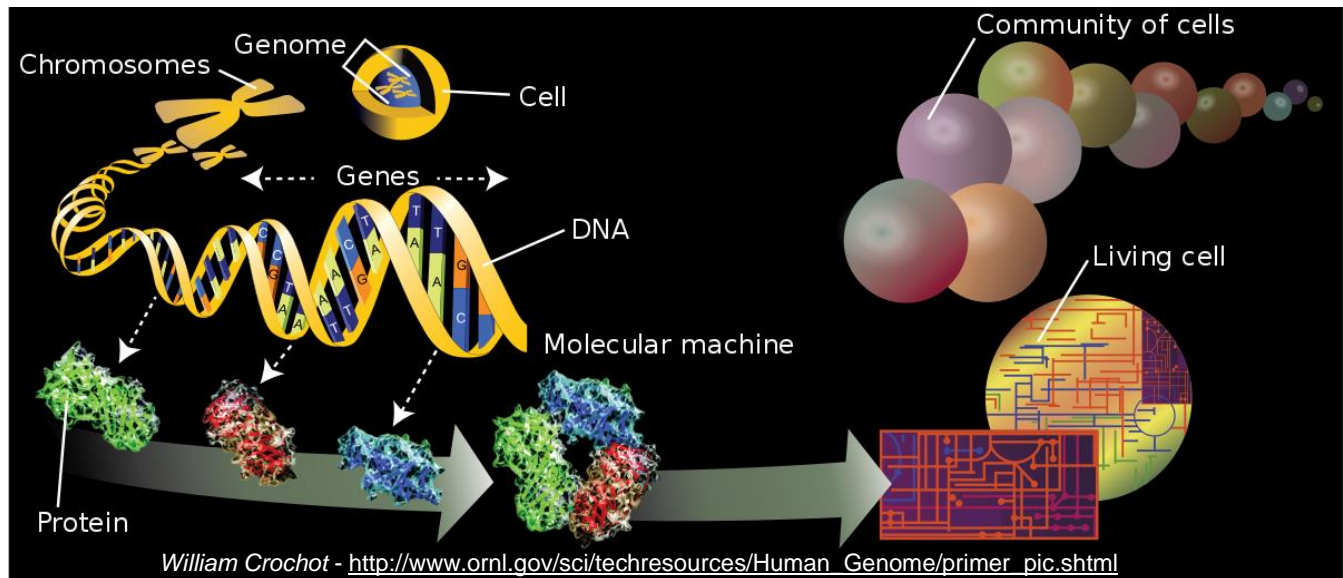
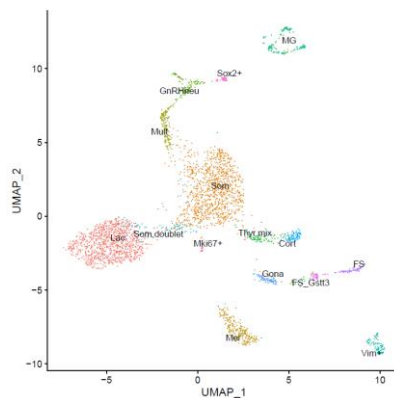


# Special Topics: Applied Systems Biology

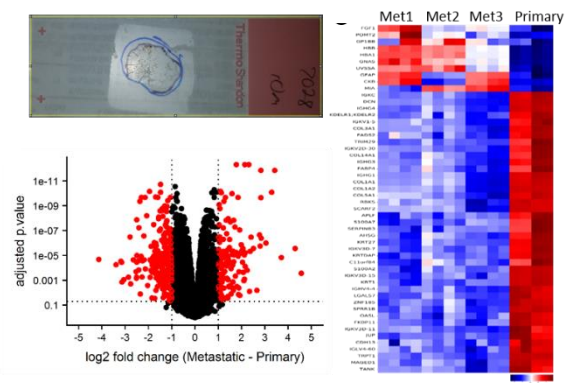
## BIOC 6102 (1 hour credit) – Spring 2021



DNA methylation



Single cell RNA-seq



Proteomics

### Course Description:

This graduate course provides an overview of cutting omics technologies to study systems as a whole.

The course will introduce sequencing technologies such as genomics, transcriptomics, 16S rRNA, metagenomics, and proteomics.

The course provides hands on data analysis experience using Jupyter Notebooks.

### Course Objectives:

- Review concepts of omics technologies
- Learn about data rigor and reproducibility
- Build a Bioinformatics Toolbox to apply these technologies to your own research

**Times: 8 Sessions**

Tuesday 1:00 – 3:00 PM

**Contact: Sbyrum@uams.edu**