

# **Bioinformatics**

**CS300**

**Exam 3**

**Fall 2017**

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# On Exam 3

- Thursday, 30th November 2017
- Gene prediction algorithms
  - Qualities and applications for each
- Prokaryote / Eukaryote gene structure general differences
- Intron and Exon structures, differences and similarities
- Codon usage across organisms
- CpG Islands
- GCPlot coding concepts
- Protein folding concepts
- Jmol
- Website major tools and applications
  - Protein Data Bank: [www.rcsb.org](http://www.rcsb.org)
  - String data base: [string-db.org](http://string-db.org)
  - UniProt: [www.uniprot.org](http://www.uniprot.org)