

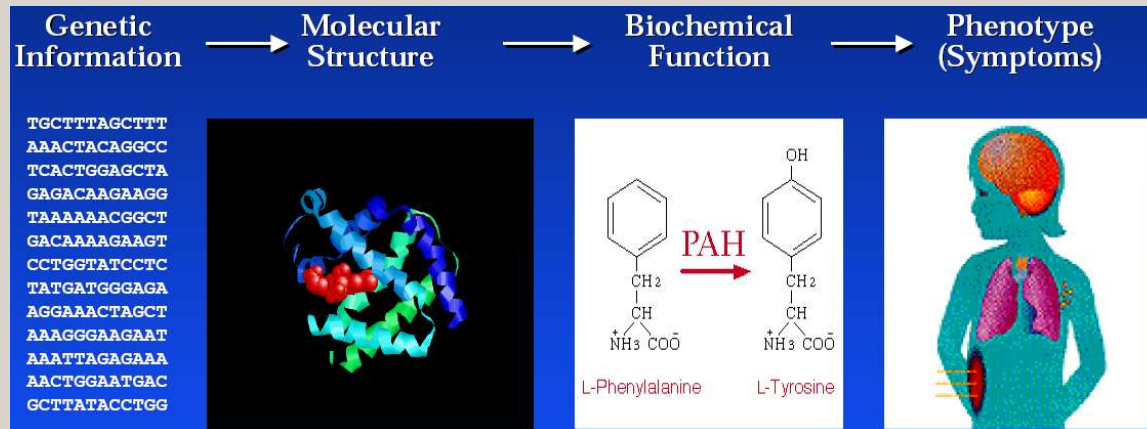
CSE 397-497 Bioinformatics: Issues and Algorithms

Professor Daniel Lopresti

“Biology easily has 500 years of exciting problems to work on.”

– Donald Knuth (Stanford Professor & famous Computer Scientist)

<http://cmgm.stanford.edu/biochem218/>



By applying methods from Computer Science to the analysis of sequence data and related structures, we can help in understanding genetic nature of disease.

Topics we study in CSE 397-497:

- sequence comparison & alignment
- sequence assembly
- physical mapping of DNA
- phylogenetic (evolutionary) trees
- genome rearrangements
- RNA & protein structure prediction
- DNA microarray analysis
- DNA computing

No prior knowledge of biology is required. For more details: dal9@lehigh.edu.