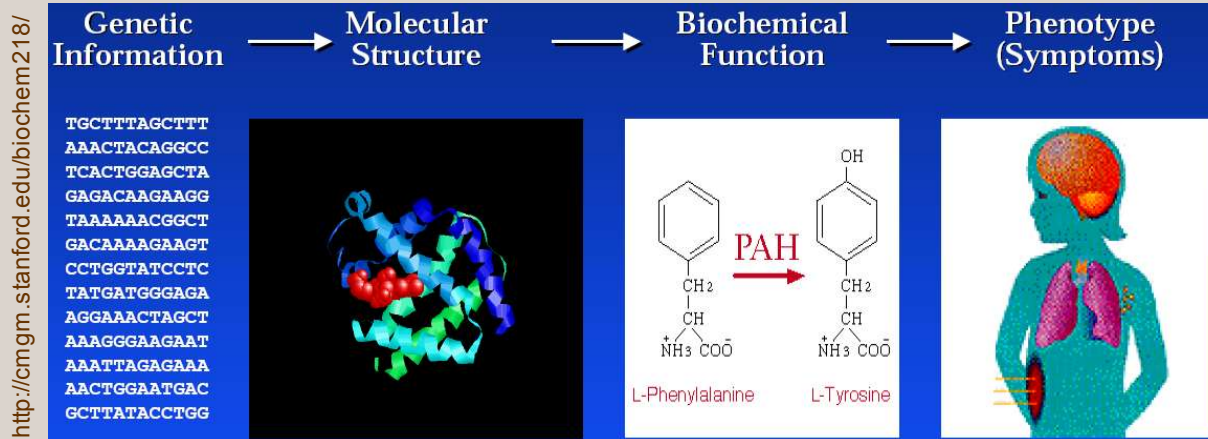


# CSE 398-498 Bioinformatics: Issues and Algorithms

Professor Daniel Lopresti • Spring 2006 • TuThr 2:30 - 3:50

“Biology easily has 500 years of exciting problems to work on.”  
– Donald Knuth (Stanford Professor & famous Computer Scientist)



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 398-498 (may be soon renumbered CSE 308-408):

- 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](mailto:dal9@lehigh.edu).