Genetics is the study of genes, genetic variation, and heredity in living organisms. This online textbook covers major topics in molecular genetics in a problems-based approach. It grew out of teaching a course for upper level undergraduates and graduate students at the Pennsylvania State University.

- Front Matter

- Unit I: Genes, Nucleic Acids, Genomes and Chromosomes
Unit II: Replication, Maintenance and Alteration of the Genetic Material

Unit III: The Pathway of Gene Expression

Unit IV: Regulation of Gene Expression

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