

Syllabus - Fall 2003

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<u>Date</u>	<u>Lab Exercise</u>
9/3	Introductory session
9/10	Mitosis and meiosis Introduction to Sterile Technique
9/17	<i>Drosophila</i> Genetics I: Analysis of monohybrid & dihybrid crosses (An introduction to <i>D. melanogaster</i> as a genetic system)
9/24	<i>Drosophila</i> Genetics II: Gene hopping study
10/1	Population Genetics
10/8	PCR Amplification: <i>Alu</i> Insertion Polymorphism (Procedures A & B)
10/15	<i>Alu</i> Insertion Polymorphism (agarose gel & analysis—Procedure C) Bacterial DNA repair systems
10/22	Southern Blotting (agarose gel & transfer—Modules 1 & 2)
10/29	Southern Blotting (detection & analysis—Module 3)
11/5	Molecular Genetics of Yeast: PCR amplification of the <i>His</i> gene
11/12	Molecular Genetics of Yeast: Transformation of <i>his</i> ⁻ cells
11/19	PCR analysis of transformants
11/26	No labs (Thanksgiving week)
12/3	EXAM
12/10	Lab reports due