

Syllabus “Introductory Genetics: Mendelian Approach” Spring 2011

Lectures: Thursday 8:15 – 9:45 am

Instructor: Dr. Dmitri Maslov, email: maslov@ucr.edu

Textbook: Griffiths “**Introduction to Genetic Analysis**”, 9th ed., 2008, Freeman

Problem solving guide: Fixsen, Lavett “**Solutions MegaManual**”, 9th ed., 2008, Freeman

Date	Lecture	Topic
March 3	1	Introduction and Mendel’s laws
March 10	2	Mitosis and meiosis
March 17	3	Chromosomes and sex determination
March 24	4	Gene interactions
March 31	5	Linkage and gene mapping (1)
April 7	6	Linkage and gene mapping (2)
April 14	No lecture	
April 21	7	Mapping by tetrad analysis in <i>Neurospora</i>
April 28	8	Gene mapping in bacteria
May 5	9	Gene function. Complementation test.
May 12	10	Control of gene expression
May 19	11	Mutations 1: point mutations and mutagenesis
May 26	12	Mutations 2: chromosomal rearrangements
Date TBA:	13	Mitochondrial inheritance