

Molecular Genetics Laboratory 11:126:482
Spring 2011 labs 1-6
Drs. Kobayashi, Belanger and Zhang

Week 1 (Jan 17)	No Class
Week 2 (Jan 24) Kobayashi	Laboratory 1 P. 6 Growth curves of <i>Serratia marcescens</i> Recitation lab: count colonies on plates for growth curve
Week 3 (Jan 31) Kobayashi	Laboratory 2 P. 9 Chemical mutagenesis: generation of kill curves Recitation lab: count colonies on plates for kill curves
Week 4 (Feb 7) Kobayashi	Laboratory 3 P. 13 Chemical mutagenesis (cont.): generation of NTG mutants for selection of <i>lipA</i> activity loss dilution plating of mutagenized cells Transposon mutagenesis: mating of donor and recipient cells plating of matings Recitation lab: Plating of matings 3,4 and 5 of transposon mutagenesis
Week 5 (Feb 14) Kobayashi	Laboratory 4 P. 20 Chemical mutagenesis (cont.): Select bacterial colonies and replica-plate onto LB agar and LB agar supplemented with 1% Tween 80. Transposon mutagenesis (cont.): Selection of mutants and replica plating Recitation lab: Observation of mutants and restreaking of <i>lipA</i> mutants
Week 6 (Feb 21) Kobayashi	Laboratory 5 P. 22 Direct cloning Isolation of plasmid DNA from lipase expressing clones Recitation lab: none
Week 7 (Feb 28) Kobayashi	Laboratory 6 P. 24 Direct cloning (cont.): Restriction analysis of isolated plasmid DNA from lab 5 Recitation lab: none
Week 8 (Mar 7)	MIDTERM EXAM: Monday, First week of yeast labs (Belanger)
Week 15	Oral Presentations