

HCS 604F03 Section (F) Call # 14928-6 (Wooster Campus) “Molecular Methods”
 Spring 2005 Tuesday and Thursday 1:00-4:00 Williams 123, Williams 210, and MCIC
 Instructors: David Francis and Michelle Jones

Laboratory Exercise Schedule (2005)

Tue. March 29	Introduction, Lab Safety, and note book	Francis
Thur. March 31	Recombinant DNA and DNA Ligation	Jones
Tue. April 5	Bacterial transformation	Jones
	April 6, start overnight cultures	
Thur. April 7	Plasmid DNA minipreps	Jones
Tue. April 12	Restriction digest analysis and preparation of samples for sequencing	Jones/MCIC
Thur. April 14	Genetic Resources on the Web Notebook grading	Francis
Tue. April 19	Gene expression analysis – RNA extraction	Francis
Thur. April 21	Gene expression analysis by RT-PCR	Francis
Tue. April 26	Gene expression analysis by microarray	Francis
Thur. April 28	Gene expression analysis by microarray Notebook grading	Francis
Tue. May 3	Construction of DNA libraries	Francis
Thur. May 5	Identification of positive BAC pools	Francis
Tue. May 10.	Preparation of high density BAC filters	Francis/MCIC
Thur. May 12	Identification of positive clones Notebook grading	Francis/MCIC
Tue. May 17	Marker/Mapping lesson I	Francis
Thur. May 19	Marker/Mapping lesson II	Francis
Tue May 24	Marker/Mapping lesson III (analysis) Notebook grading	Francis
Thur. May 26	Protein Expression in E-Coli	Francis
Tue. May 31	Protein Purification	Francis
Thur. June 2	Enzyme activity optimization Notebook grading	Francis