

<b>Date</b>	<b>Activity</b>
Friday, August 25	Lecture: Introduction to microarrays. Environmental control of gene expression
Saturday, August 26	Lecture: Planning session and introduction to laboratory safety
Friday, September 1	Lecture: RNA chemistry and isolation
Saturday, September 2	Introduction to liquid Handling, preparation of solutions, buffers, and media
Friday, September 8	① Fly treatment (heat shock, cold shock) and Solution Preparation
Saturday, September 9	① Fly treatment, tissue collection and homogenization, and RNA extraction
Friday, September 15	① RNA quantitation and quality control: Spectrophotometry, RNA agarose gel, documentation
Saturday, September 16	① cDNA synthesis
Friday, September 22	① Micro array slide preparation. cDNA hybridization
Saturday, September 23	① Post hybridization washes (extra long lab 4-5 hrs)
Friday, September 29	Lecture: the control of transcription in eukaryotes. Ectopic gene expression as a means to study gene function
Saturday, September 30	Literature research – preparation of presentation and report
Friday, October 6	② Collection of flies, homogenization and preparation of tissue for SDS gel electrophoresis, ① Fly treatment (heat shock, cold shock)
Saturday, October 7	① Fly treatment (heat shock, cold shock) and RNA extraction
Friday, October 13	② SDS PAGE of fly proteins, Western blotting ① RNA quantitation and quality control: Spectrophotometry, RNA agarose gel, documentation
Saturday, October 14	① cDNA synthesis
Friday, October 20	② Western hybridization I ① Micro array prep/cDNA hybridization
Saturday, October 21	② Western hybridization II – X-ray film development ① Post hybridization washes (extra long lab 5-6 hrs)
Friday, October 27	② Visit to College of Natural Sciences Sequencing Center Snyder 311 Lecture: high throughput sequencing methods
Saturday, October 28	Immunocytochemistry
Friday, November 3	② Confocal microscopy lab
Saturday, November 4	⑤ Bioinformatics lab: Microarray analysis I
Friday, November 10	<b>Holiday: Veteran's Day</b>
Saturday, November 11	⑤ Bioinformatics lab: Microarray analysis II
Friday, November 17	Lecture/tutorial and demonstration yeast two-hybrid system
Saturday, November 18	
Friday, November 24	<b>Holiday: Thanksgiving Vacation</b>
Saturday, November 25	<b>Holiday: Thanksgiving Vacation</b>
Friday, December 1	Final presentations (oral)

Saturday, December 2	Final presentations (oral)
Friday, December 8	<b>Study Days</b>
Saturday, December 9	<b>Study Days</b>
Friday, December 15	<b>Finals Week</b>
Saturday, December 16	<b>Finals Week</b>