Lab Schedule Winter Semester 2019. 80 min 140 min

Lab	Date	#	Content
1	9/3	**2-3**	Onion tip mitosis, Anther meiosis
2	9/5	**2-3**	Human Barr bodies
3	9/10		**1** Meet the fly. Set up epistasis crosses
4	9/12	**4**	Polytene chromosome squashes
5	9/17	**6**	Monohybrid and dihybrid crosses in maize. Chi square tests.
		4	Remove adults from epistasis crosses
6	9/19	**5**	Design mapping experiments for unknown mutations
7	9/24	**5**	Set up mapping crosses for unknown mutations
8	9/26	**4**	Observe epistasis F1 offspring, set up F2 crosses.
9	10/1	**7**	Neurospora, mapping to centromere.
		5	Remove adults from mapping of unknown mutations
10	10/3	**5**	Inspect mapping F1. Identify X linkage. Set up F2.
		4	Remove adults from F2 epistasis crosses
11	10/8	**9**	Prepare plasmid DNA
12	10/10	**9**	Digest plasmid DNA
		5	Remove adults from F2 mapping cross
		4	Inspect epistasis F2 offspring
13	10/15	**9**	Run plasmid DNA on gel. Generate plasmid map
14	10/17	**8**	Extract DNA from flies.
		5	Inspect F2 offspring from mapping of mutations.
15	10/22	**13**	PCR genomic DNA for cloning
16	10/24	**13**	Clean up PCR product, rapid cloning
17	10/29	**10**	Digest genomic DNA for inverse PCR
		13	Transform cells for rapid cloning
18	10/31	**10**	Ligate genomic DNA for inverse PCR
		13	Miniprep colonies from rapid cloning
19	11/5	**13**	Run miniprep DNA on gel
20	11/7	**10**	PCR ligated genomic template
		13	Prepare miniprep DNA for sequencing
21	11/12	**10**	Set mating between UAS_{gal}-GFP and GAL4 drivers
22	11/14	**10**	Run inverse PCR products on gel, clean up for sequencing
23	11/19	**14**	Examine GFP-expressing flies.
24	11/21	**10,13**	Analyze sequenced PCR products and plasmids
25	11/26	**12**	Forensics lab. Extract human DNA. VNTR PCR
26	12/3	**12**	Run VNTR PCR products on gel
27	12/5		Lab Final