Spring 2019 **Profs. Martin Yanofsky and Yunde Zhao**

BICD123: Plant Molecular Genetics Laboratory

April 2 (T)	Safety/Plant Transformation/Arabidopsis crosses 1	Yanofsky
April 4 (Th)	Seed Storage Protein Expression/Protein gels	Yanofsky
April 9 (T)	Light signaling 1	Zhao
April 11 (Th)	Auxin signaling 1	Zhao
April 16 (T)	Light signaling 2	Zhao
April 18 (Th)	Auxin signaling 2	Zhao
April 23 (T)	DNA markers and Positional cloning 1	Zhao
April 25 (Th)	DNA markers and Positional cloning 2	Zhao
April 30 (T)	Nitrate reductase biochemical assay	Zhao
May 2 (Th)	Environmental induction of nitrate reductase	Zhao
May 7 (T)	Mutant PCR/Arabidopsis crosses 2	Yanofsky
May 9 (Th)	Agarose Gels/Ligations/Transformations	Yanofsky
May 14 (T)	Minipreps/Digests/Gels/Sequencing	Yanofsky
May 16 (Th)	Sequence analyses/Database search	Yanofsky
May 21 (T)	GUS staining vs. In situs	Yanofsky
May 23 (Th)	Allelism/Mutant screen	Yanofsky
May 28 (T)	Harvest of Fear/GMO Discussion	Yanofsky/Zhao
May 30 (Th)	Stomatal movements	Zhao
June 4 (T)	Yeast complementation/heavy metal resistance	Zhao
June 6 (Th)	Arabidopsis Crosses and Final Exam	Yanofsky

Instructional Assistants:

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Grading policies

Course Grade: Grades will be determined by a combination of the written lab reports (80%) and a Final exam (20%).

Late lab reports: All lab reports must be handed in on time to receive full credit. Late lab reports will be assessed a 10% penalty for each day they are late. For example, if a report is worth 20 points, a lab report handed in two days late could receive a maximum of 16 points.

Class Attendance: Students are expected to attend ALL of the lab classes. If, for reasons of illness, a student misses a class, they must write an essay on a topic that will be assigned by the instructor. If a student misses a class and fails to write the essay, they will lose 5% from the overall course grade.

Note: ADD/DROP DEADLINES are different for lab courses than lecture courses. Students who drop a Biology lab class after the end of the second-class meeting will be assigned a “W”.