

PLB 856 Plant Molecular and Omic Biology

Lecture	Date	Instructor	Topics	Quizzes & HW	Exams	Research Proposal Writing
1	1/11/22	Takahashi	Course Organization, Natural Diversity, Model Organism			
2	1/13/22	Takahashi	Plant Transformation			
3	1/18/22	Takahashi	Genome Editing	Quiz 1		
4	1/20/22	Takahashi	Forward and Reverse Genetic Approaches			
5	1/25/22	Takahashi	Transcriptional Regulation	Quiz 2		
6	1/27/22	Takahashi	Gene Expression			
7	2/1/22	Kerwin	High-throughput sequencing			
8	2/3/22	Niederhuth	DNA Methylation; Chromatin Modification			
9	2/8/22	Takahashi	Transcriptional and Post-transcriptional Gene Silencing	Quiz 3		
10	2/10/22	Takahashi	VIGS, miRNA			
11	2/15/22	Takahashi	Transcriptomics	Quiz 4		Phase I. Title and Abstract
12	2/17/22	Takahashi	Integration with Metabolomics			
	2/22/22	Last/Takahashi	<a href="#">Proposal Conferences</a>	Homework 1		
	2/24/22	Last/Takahashi	<a href="#">Proposal Conferences</a>		Midterm (Lec 1-12); Due 2/26/22	
13	3/1/22	Hsu	Mechanisms of Translation; Translatome Analysis			
14	3/3/22	Hsu	Translational Regulation and Application			
	3/8/22		Spring Break			
	3/10/22		Spring Break			
15	3/15/22	Takahashi	Small Peptides	Quiz 5		
16	3/17/22	Takahashi	Chemical Genomics			
17	3/22/22	Takahashi	Hormone Signaling	Quiz 6		Phase II. Background and Significance
18	3/24/22	Takahashi	Hormone Transport			
19	3/29/22	Takahashi	Ionomics	Quiz 7		
20	3/31/22	Lebeis	Plant-Microbe Interaction			
21	4/5/22	Lebeis	Microbiome	Quiz 8		
22	4/7/22	Lundquist	Proteomics			
23	4/12/22	Lundquist	Post-translational Modification	Homework 2		
24	4/14/22	Lundquist	Chloroplast Protein Localization			
25	4/19/22	Last	Evolution of Metabolism			Phase III. Full proposal
26	4/21/22	Last	Biochemistry of Tastiness			
	4/26/22		<a href="#">Student Presentation</a>			
	4/28/22		<a href="#">Student Presentation</a>		Final (Lec 13-26); Due 4/30/22	