

**BMB/CSS/PLB 856 - Plant Molecular and Omic Biology**
**Lecture and Assignment Schedule for Fall 2018**

Date	Instructor	Topics	Assignments/Exams
8/30/18	Last	Course Organization. The Changing Nature of Model Organisms.	
9/4/18	Last	Review of TAIR, The Plant Cell	Take home assignment 1 <b>due in class</b>
9/6/18	Takahashi	Molecular Biology of Plant Transformation and Genome Editing	Quiz 1 - Plant Transformation
9/11/18	Last	Finish Plant Cell, Start Forward and Reverse Genetic Approaches	Quiz 2 - The Plant Cell
9/13/18	Last	Forward and Reverse Genetic Approaches / Proposal Discussion	Quiz 3 - Forward and Reverse Genetics
9/18/18	Last	Centromeres and Chromosomes	Quiz 4 - The Centromere
9/20/18	Last	Genes, Gene Families, and Genome Evolution	Quiz 5 - Genome Evolution
9/25/18	Last	Transcriptional Regulation of Gene Expression	
9/27/18	Niederhuth	Transcriptome Analysis	
10/2/18	Niederhuth	Epigenomics / Accessing Gene Expression Data	Proposal: Title and abstract <b>due in class</b>
10/4/18	Hsu	Translatome	Take home assignment 2 <b>due in class</b>
10/9/18	Last/Takahashi	<i>Proposal Conferences - Monday AM and Wednesday PM</i>	
10/11/18	Last	Proteomics	Quiz 6 - Protein Analysis
10/16/18	Last	<i>Midterm Format and Content / Catch Up Time</i>	
10/18/18	Last	Floral Development and Evolution	Midterm available at 8:00 AM, <b>due on Friday at 5:00 PM</b> to R. Last Mailbox
10/23/18	Last	Evolution of Metabolism	
10/25/18	Last	Biochemistry of Tastiness	Proposal: Background and Significance <b>due in class</b>
10/30/18	Takahashi	Transcriptional and Posttranscriptional Gene Silencing	
11/1/18	Takahashi	Auxin Signaling	Quiz 7 - Auxin Signaling
11/6/18	Takahashi	Cytokinin Signaling	
11/8/18	Takahashi	Nitrogen Signaling	Quiz 8 - Nitrogen Signaling
11/13/18	Takahashi	Phosphorus Signaling	
11/15/18	Takahashi	Interaction with Soil Microbiome	Quiz 9 - Interaction with Soil Microbiome
11/20/18	Takahashi	Water and Nutrient Use Efficiency	Proposals: Final full proposal <b>due in class</b>
11/22/18		<i>No Class - Happy Thanksgiving</i>	
11/27/18	He	Plant Disease Resistance Genes/ SA signaling	Quiz 10 - JA signaling
11/29/18	He	Jasmonic Acid and ABA Signaling	
12/4/18	Last/Takahashi	<i>Student Presentations</i>	
12/6/18	Last/Takahashi	<i>Student Presentations</i>	Final available at 5:00 PM, <b>due on Saturday at 5:00 PM</b> by email to HT