

## **SYLLABUS - Plant Molecular Biology**

**Plant Biology/MG 622**

**M, W 9:30 – 11:18 AM; F 9:30 – 10:18; 132 Jennings**

Monday, Jan 3 (Meier)	Introduction
Wednesday, Jan 5 (Grotewold)	Methods: Molecular and Biochemical
Friday, Jan 7 (Verma)	Methods: Cell Biology and Plant Transformation
Monday, Jan 10 (Meier)	Methods: Bioinformatics (Guest lecture: Dr. A. Rose)
Wednesday, Jan 12 (Meier)	The Nucleus and Nuclear DNA Metabolism
Friday, Jan 14 (Meier)	Chromatin Organization and Mitosis
Monday, Jan 17	Martin Luther King – No class
Wednesday, Jan. 19 (Meier)	Paper presentation 1 & 2
Friday, Jan 21 (Meier)	Organelle Genomes
Monday, Jan 24 (Meier)	Paper presentation 3 & 4
Wednesday, Jan 26 (Grotewold)	Promoters and Transcription
Friday, Jan 28 (Grotewold)	Cis-Acting Elements and Transcription factors
Monday, Jan 31 (Grotewold)	Paper presentation 5 & 6
Wednesday, Feb 2(Grotewold)	Signaling that Controls Nuclear Gene Expression and paper 7
Friday, Feb 4 (Grotewold)	Paper presentation 8
Monday, Feb 7 (Meier/Grotewold)	Paper 9 and Questions and Answers
Wednesday, Feb 9 (Meier)	<b>MIDTERM</b>
Friday, Feb 11 (Verma)	Co-Suppression & Gene Silencing
Monday, Feb 14 (Verma)	Control of Organelle Gene Expression
Wednesday, Feb 16 (Verma)	Paper presentation 10 & 11
Friday, Feb 18 (Meier)	Processing of RNA and RNA transport
Monday, Feb 21 (Meier)	Protein Synthesis, assembly, and degradation
Wednesday, Feb 23 (Meier)	Paper presentation 12 & 13
Friday, Feb 25 (Bisaro)	Plant viruses (Guest lecturer: Dr. David Bisaro, MG)
Monday, Feb 28 Grotewold	Genes and Enhancer Traps
Wednesday, March 2 (Grotewold)	Transposons
Friday, March 4 (Grotewold)	Reverse genetics
Monday, March 7 (Verma)	-Signal Transduction, PAPER REVIEWS DUE
Wednesday, March 9 (Grotewold)	Papers 14 and 15
Friday, March 11 (Grotewold/Meier)	Questions & Answers PAPERS AND REVIEWS RETURNED TO CLASS
Wednesday, March 17 (Grotewold)	<b>FINAL EXAM 9:30 – 11:30 AM B&amp;Z</b> <b>314Jennings 132</b>

