

SYLLABUS - Plant Molecular Biology

PCMB/MG 622

M, W 9:30 – 11:18 AM; F 9:30 – 10:18; 101D Bolz Hall/Gourley Hall (Wooster)

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| Friday, Jan 4 (Meier) | Introduction |
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| Monday, Jan 7 (Meier) | Methods: Cell Biology & Plant Transformation |
| Wednesday, Jan 9 (Waddell) | Methods: Molecular Biology |
| Friday, Jan 11 (Waddell) | Methods: Genetics and Genomics |
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| Monday, Jan 14 (Meier) | The Nucleus and Nuclear DNA Metabolism |
| Wednesday, Jan. 16 (Meier) | Chromatin Organization and Paper presentation 1 |
| Friday, Jan 18 (Meier) | Paper presentation 2, Quiz 1 |
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| Monday, Jan 21 | Martin Luther King – No class |
| Wednesday, Jan 23 (Waddell) | Promoters and Transcription |
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| Friday, Jan 25 (Waddell) | Cis-Acting Elements and Transcription factors |
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| Monday, Jan 28 (Waddell) | Transposons |
| Wednesday, Jan 30 (Waddell) | Genes and Enhancer traps and Paper Presentation 3 |
| Friday, Feb 1 (Waddell) | Paper presentation 4, Quiz 2 |
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| Monday, Feb 4 (Meier) | MIDTERM |
| Wednesday, Feb 6 (Verma) | Small RNAs 1 |
| Friday, Feb 8 (Verma) | Paper presentation 5 |
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| Monday, Feb 11 (Verma) | Small RNAs 2 |
| Wednesday, Feb 13 (Verma) | Epigenetic control of gene expression & Q4 |
| Friday, Feb 15 (Verma) | Paper presentation 6, Quiz 3 |
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| Monday, Feb 18 (Bisaro) | Plant viruses (Guest lecturer: Dr. David Bisaro, MG) |
| Wednesday, Feb 20 (Ding, Meier) | Viroids (Guest lecture: Dr. Biao Ding, PCMB) and Paper Presentation 7 |
| Friday, Feb 22 (Meier) | Paper presentation 8 |
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| Monday, Feb 25 (Meier) | Posttranscriptional Regulation 1 |
| Wednesday, Feb 27 (Meier) | Posttranscriptional Regulation 2 |
| Friday, Feb 29(Meier) | Paper presentation 9, Quiz 4 |
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| Monday, March 3 (Meier) | Organelle Genomes |
| Wednesday, March 5 (Verma/Meier) | Paper 10 & 11 |
| Friday, March 7 (Meier) | Paper 12 |
| Wednesday, March 12 (Meier) | FINAL EXAM 9:30 – 11:30 AM 101D Bolz Hall |