

**TENTATIVE SYLLABUS – PB 625 - Plant Metabolic Engineering
Winter 2003**

Wed. & Friday 3:30 PM – 5:18 PM, 132 Jennings
Call #: 03128

Date	Topic
Wednesday, January 8	Introduction - Plant Molecular Biology & Biochemistry
Friday, January 10	Plant Natural Products & Metabolic Engineering
Wednesday, January 15	Channeling & Trafficking of Phytochemicals
Friday, January 17	Biosynthesis and Importance of Lipids
Wednesday, January 22	Metabolic Profiling & Transcription Factors for Metabolic Engineering
Friday, January 24	Presentations 1 & 2: Metabolic Engineering of Lipids
Wednesday, January 29	Biosynthesis and Importance of Phenolics
Friday, January 31	Presentations 3 & 4: Metabolic Engineering of Phenolics
Wednesday, February 5	Dr. Joseph Noel – Salk Institute
Friday, February 7	Metabolic Engineering of Cyanogenic Glycosides
Wednesday, February 12	MIDTERM
Friday, February 14	Biosynthesis and Importance of Isoprenoids
Wednesday, February 19	Presentations 5 & 6: Metabolic Engineering of Isoprenoids
Friday, February 21	Dr. Joseph Chappell – University of Kentucky
Wednesday, February 26	GMO Issues and Biosafety
Friday, February 28	Biosynthesis and Importance of Alkaloids
Wednesday, March 5	Dr. Judith Bender – John Hopkins
Friday, March 7	Presentations 7 & 8: Metabolic Engineering of Alkaloids
Wednesday, March 12	Presentations 9 & 10: Metabolic Engineering of Vitamins