

**TENTATIVE SCHEDULE: SPRING 2010**  
**MOLECULAR PLANT-PATHOGEN/PEST INTERACTIONS**  
**Offered via INTERNET II**  
**between Colorado State University and Oklahoma State University**  
**CSU BI550; 11:00-12:15 ON TUES/THURS E005 PLANT SCIENCES**

DATE		LECTURE TOPIC
<b>Jan</b>	19	LECTURE 1: Introductions, overview of course. Plant-Pest Interactions: Definitions, concepts, research tools
	21	LECTURE 2: Pre-penetration and penetration
	26	<b>PAPER DISCUSSION :</b>
	28	LECTURE 3: Toxins in pathogenesis
<b>Feb</b>	2	LECTURE 4: Biofilms, exopolysaccharides
	4	<b>PAPER DISCUSSION:</b>
	9	LECTURE 5: Pathogen secretion of factors that effect plants (bacterial and fungal)
	11	LECTURE 6: Tissue maceration: degradative and modifying enzymes
	16	<b>STUDENT-LED PAPER DISCUSSION:</b>
	18	LECTURE 7: Growth Regulators & Ti plasmid
	23	<b>Mid-Term Exam</b>
	25	LECTURE 8: PAMPs and PAMP-triggered immunity
<b>Mar</b>	2	LECTURE 9: Effectors and effector-triggered immunity
	4	<b>STUDENT-LED PAPER DISCUSSION:</b>
	9	LECTURE 10: Effector protein functions
	11	LECTURE 11: Hypersensitive response/Programmed Cell Death
	15-19	SPRING BREAK
	23	LECTURE 12: Defense responses: phytoalexins, elicitors
	25	<b>STUDENT-LED PAPER DISCUSSION:</b>

	30	LECTURE 13: Defense responses: PR Proteins, active oxygen species
<b>April</b>	1	LECTURE 14: Systemic acquired resistance (SAR)
	6	LECTURE 15: Signal transduction in resistance
	8	LECTURE 16: Signal transduction in resistance
	13	<b>STUDENT-LED PAPER DISCUSSION:</b>
	15	LECTURE 17: Plant-Insect Interactions
	20	LECTURE 18: Plant-Virus Interactions
	22	LECTURE 19: Special Topic
	27	<b>STUDENT-LED PAPER DISCUSSION:</b>
	29	LECTURE 20: SUMMARY
<b>May</b>		Final Exam