

PS9540 GENETICS OF THE PLANT-MICROBE INTERACTION
CLASS NUMBER 71219
SPRING SEMESTER, EVEN-NUMBERED YEARS
9:00 – 9:50 MWF ROOM 121 LSC

INSTRUCTORS: WALTER GASSMANN AND GARY STACEY

LECTURE	SUBJECT	LECTURER
1	Course organization/Introduction to plant disease resistance	WG
2	Basal and gene-for-gene resistance	WG
3	Bacterial hrp and avirulence genes	WG
4	Bacterial hrp and avirulence genes	WG
5	Bacterial hrp and avirulence genes	WG
6	Functions of pathogen effector proteins	WG
7	Functions of pathogen effector proteins	WG
8	Functions of pathogen effector proteins	WG
9	Genomics of plant pathogens	WG
10	Genomics of plant pathogens	WG
11	Genomics of plant pathogens	WG
12	Biocontrol of plant diseases	Bob Kremer
13	Agrobacterium	Laszlo Kovacs
14	The <i>Pseudomonas</i> - tomato system	Jeff Anderson
15	What does genomics teach us?	GS
16	Bacterial transcriptional regulation	GS
17	Host inducible regulation	GS
18	Bacterial quorum sensing	GS
19	Bacterial endophytes	GS
20	Bacterial endophytes	GS
21	PAMP responses	GS
22	PAMP responses	GS
23	PAMP responses	GS
24	Plant disease resistance genes	WG
25	Plant disease resistance genes	WG
26	Exam	WG/GS
SPRING BREAK WEEK		
27	Resistance signaling	WG
28	Resistance signaling	WG
29	Resistance signaling	WG
30	Evolution and durability of resistance genes	WG

31	Evolution and durability of resistance genes	WG
32	Evolution and durability of resistance genes	WG
33	Bacterial extracellular proteins and their secretion	AKC
34	Bacterial extracellular proteins and their secretion	AKC
35	Bacterial extracellular proteins and their secretion	AKC
36	Overview of biological and symbiotic nitrogen fixation	GS
37	Overview of biological and symbiotic nitrogen fixation	GS
38	Overview of biological and symbiotic nitrogen fixation	GS
39	Symbiotic nitrogen fixation: bacterial traits for infection	GS
40	Symbiotic nitrogen fixation: bacterial traits for infection	GS
41	Symbiotic nitrogen fixation: bacterial traits for infection	GS
42	Symbiotic nitrogen fixation: Plant response to infection	GS
43	Symbiotic nitrogen fixation: Plant response to infection	GS

Exam

Finals Week

This course will rely heavily on the presentation and interpretation of original literature. Active participation in classroom discussions will be an important part of the final grade. In addition, there will be 2 written exams. These will be weighted in the following way:

Exam March 20 (WG/GS/AKC):	50%
Exam May 8 (WG/GS):	50%

The final grade will consist of:

Written exams:	70%
Classroom participation:	30%

Notice: If you need accommodations because of a disability, if you have emergency medical information to share with the course director, or if you need special arrangements in case the building must be evacuated, please inform the course director immediately, either after class, or in his office

Office location: Walter Gassmann, 371c LSC or Gary Stacey, 271e LSC

To request academic accommodations (for example, a note taker), students must also register with Disability Services, A038 Brady Commons, 882-4696. This office is responsible for reviewing documentation provided by students requesting academic accommodations, and for accommodations planning in cooperation with students and instructors, as needed and consistent with course requirements.

Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, or collaboration, consult the course instructor.