

Genome Sciences/Microbiology 411 (Gene Action)

Winter Qtr, 2009

Lecturers: Colin Manoil, Beth Traxler

Lab Instructor: Kendall Gray T384

Teaching Assistants: Elizabeth Dietrich, Julie Silverman, Troy Zerr

Text: Snyder and Champness, *Molecular Genetics of Bacteria*; 3rd ed.

Lectures MWF 1:30-2:55 (T747); Exams F 1:30-2:55; Lab sections (T370)

<http://www.gs.washington.edu/academics/courses/manoil/41109/index.htm>

Required Reading

1/5	Introduction/Review	
1/7	QUIZ ; <i>lac</i> operon arcana	Handout, pp 502-506
1/9	Lab orientation	
1/12	DNA replication	pp 17-48
1/14	Mutation	pp 139-144, 153-167, 506-510
1/16	Lab lecture	
1/19	Holiday -Martin Luther King Day	
1/21	Mutation/DNA repair	pp 459-477
1/23	EXAM 1 (through 1/21 inclusive)	
1/26	DNA repair	pp 477-495
1/28	Transposition	pp 377-397
1/30	Lab lecture	
2/2	Transposition	pp 272-273, 397-400, 410-417, 423-424
2/4	Special topic	
2/6	EXAM 2 (through 2/4 inclusive)	
2/9	Lab lecture	
2/11	Recombination	pp 429-457
2/13	Regulation of gene expression	(reading to be announced)
2/16	Holiday	
2/18	Lab lecture	
2/20	Phages: Lambda and P1	pp 293-296, 335-337, 343-374
2/23	Plasmid biology	pp 197-240
2/25	Mutant construction, isolation, and screening	(reading to be announced)
2/27	EXAM 3 (through 2/25 inclusive)	
3/2	Lab lecture	
3/4	Gene transfer mechanisms	(reading to be announced)
3/6	Special topic	
3/9	Special topic	
3/11	Global Regulation	(reading to be announced)

3/13

EXAM 4 (through 3/11 inclusive)