

### Cell Signaling, Genetic Rearrangements and Cancer

Date	Lecturer/ Department	Topic
Jan. 15	McCubrey (MCBI)	Introduction to Course and Eukaryotic Cell Growth
Jan. 17	McCubrey (MCBI)	Eukaryotic Cell Mutants
Jan. 22	McCubrey (MCBI)	Cell Transformation I
Jan. 24	McCubrey (MCBI)	Cell Transformation II
Jan. 29	Franklin (MCBI)	Functional Aspects of Cell Signaling Pathways-Proliferation
Jan. 31	Franklin (MCBI)	Functional Aspects of Cell Signaling Pathways- Apoptosis
Feb 5	Franklin (MCBI)	Mechanisms of Drug Resistance Conferred by Cellular Redox
Feb. 12	-	<b>Exam 1</b>
Feb. 14	Terrian (ANAT)	Hormone-Responsive Cancers
Feb. 19	Terrian (ANAT)	Establishment of Bypass Pathways
Feb. 21	Bertrand (MCBI)	Chromosomal Translocations & Cancer I
Feb. 26	Bertrand (MCBI)	Chromosomal Translocations & Cancer II
Feb. 28	Lemasson (MCBI)	Eukaryotic Transcription
Mar. 4	Lemasson (MCBI)	Eukaryotic Chromatin
Mar. 6	-	<b>Exam 2</b>

### Prokaryote Genome Structure and Dynamics & Mechanisms of Genetic Control

Date	Lecturer/ Department	Topic
March 9 - March 16	Spring Break	March 9 - March 16
Mar. 18	Roop (MCBI)	Prokaryote Genome Structure
Mar. 20	Roop (MCBI)	Genes to Gene Products
Mar. 25	Pesci (MCBI)	Plasmids and Plasmid Replication
Mar. 27	Smith (MCBI)	Conjugation and Plasmid Transfer
Apr. 1	Smith (MCBI)	Transposons and Transposition
Apr. 3	Coleman (MCBI)	Operon Structure
Apr. 8	Coleman (MCBI)	Operon Control- Negative Regulation and Attenuation
Apr. 10	-	<b>Exam III</b>
Apr. 15	Pesci (MCBI)	Regulatory RNA
Apr. 17	Roop (MCBI)	Genetic Analysis of Bacteria
Apr. 22	Martin (MCBI)	Sigma Factors in Gene Regulation
Apr. 24	Martin (MCBI)	Mechanisms of Genetic Switching
-	-	<a href="#">Turn in Term Papers on this date. If late, reduces one letter grade each day late.</a>
Apr. 29	Smith (MCBI)	Prokaryotic Signal Transduction- Genetic Structure of Two Component Regulatory Systems
May. 1	-	Exam IV

Note: All exams will be "in class" exams and not "take home".

