

BMS 715 Molecular Biology

Schedule - Spring 2019

9 AM to 10 AM

Monday, Wednesday, and Friday – 2118 HSN

Date	Session	Topic	Instructor
January 2019			
7	1	Course Overview, DNA Structure & Properties	Hillgartner
9	2	Bacterial Genome	Stoilov
11	3	Prokaryotic Gene Transcription	Stoilov
14	4	Structure of Eukaryotic Genomes	Mathers
16	5	Structure and Replication of DNA/Chromosomes	Mathers
18	6	DNA Methods/Bioinformatics	Mathers
21	-	No Class - Martin Luther King Day	-
23	7	DNA Methods/Bioinformatics	Mathers
25	8	<i>Exam 1 (20 Points), (HSN 2911, LC-3) 2 - 4 pm</i>	-
28	9	Mendelian and Non-Mendelian Genetics	Mathers
30	10	Genetic Mapping	Mathers
February 2019			
1	11	Genetic Manipulations	Mathers
4	12	CRISPR/Cas9 Genome Targeting	Mathers
6	13	Cell Specification and Differentiation	Mathers
8	14	Stem Cell Biology	Mathers
11	15	Journal Club (Wirtz Conference Room)	Mathers
13	16	Methods for Studying Eukaryotic Gene Transcription	Hillgartner
15	17	Mechanism of Gene Transcription in Eukaryotes	Hillgartner
18	18	Regulation of Gene Transcription in Eukaryotes	Hillgartner
20	19	Regulation of Gene Transcription in Eukaryotes	Hillgartner
22	20	Journal Club (Wirtz Conference Room)	Hillgartner
25	21	<i>Exam 2 (34 Points), (HSN 2911, LC-3) 9 to 11 am</i>	-
27	22	mRNA Processing, Part 1	Stoilov
March 2019			
1	23	mRNA Processing, Part 2	Stoilov
4	24	Regulation of RNA Splicing and RNA Turnover	Stoilov
6	25	Regulation of RNA Splicing and RNA Turnover	Stoilov
8	26	Micro-RNA and Non-coding RNA; siRNA Technology	Stoilov
-	-	No Class - March 11 to March 15	-
18	27	Epigenetics	Stoilov
20	28	DNA Repair	Stoilov
22	-	No Class - Van Liere Research Day	-
25	29	tRNA and rRNA Processing	Stoilov
27	30	Journal Club (Wirtz Conference Room)	Stoilov
29	31	<i>Exam 3 (26 Points), (HSN 2911, LC-3) 2 - 4pm</i>	-

April 2019

1	32	Translating the Genetic Code	Smith
3	33	Translation Initiation	Smith
5	34	Translation Elongation and Termination	Smith
8	35	Protein Folding /Chaperones	Smith
10	36	Protein Degradation 1	Smith
12	37	Protein Degradation 2	Smith
15	38	Journal Club (Wirtz Conference Room)	Smith
17	39	<i>Exam 4 (20 Points), (HSN 2911, LC-3) 2 - 4 pm</i>	-

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