

Biophysics 205: Computational and Functional Genomics
Spring 2020
SYLLABUS

Monday, January 27 Martha Bulyk	Course Overview <i>Genome Sequencing Lecture</i>
Wednesday, January 29 Martha Bulyk	Transcriptome I <i>Transcriptional Profiling and Clustering Lecture</i>
Monday, February 3 Martha Bulyk	Transcriptome II
Wednesday, February 5 Shamil Sunyaev	Genome Analysis <i>Genome Analysis Lecture</i>
Monday, February 10 Shamil Sunyaev	Comparative Genomics and Metagenomics
Wednesday, February 12 Shamil Sunyaev	Genomics and Protein Structures
Monday, February 17	No Class: President's Day
Wednesday, February 19 Martha Bulyk	Noncoding RNAomics
Monday, February 24 Shamil Sunyaev	Genetic Variation I <i>Genetic Variation Lecture</i>
Wednesday, February 26 Marc Vidal	Metabolome
Monday, March 2 Martha Bulyk	HiC, DHS, and Histone Modifications <i>Histone Modifications Mini-Lecture</i>
Wednesday, March 4 Martha Bulyk	Sequence Motifs
Monday, March 9 Martha Bulyk	Regulome
Wednesday, March 11 March Vidal	Phenome
Monday, March 16	No Class: Spring Break
Wednesday, March 18	No Class: Spring Break

Monday, March 23 Martha Bulyk	Epigenomes and Epitranscriptomes
Wednesday, March 25 Peter Sorger	Proteomics and Mass Spectrometry <i>Proteomics Lecture</i>
Monday, April 30 Shamil Sunyaev	Genetic Variation II
Wednesday, April 1	No Class: NHGRI Trainees Conference
Monday, April 6 Peter Sorger	RNA Stability and Translation Regulation
Wednesday, April 8 Shamil Sunyaev	Genetic Variation III
Monday, April 13 Peter Sorger	Protein Interactions, Modifications, and Networks
Wednesday, April 15 Shamil Sunyaev	Network Analysis
Monday, April 20 Peter Kharchenko	Cell-to-Cell Variability
Wednesday, April 22 Shamil Sunyaev	Genetic Interactions
Monday, April 27 Peter Sorger	Signaling Dynamics <i>Signaling Dynamics Mini-Lecture</i>
Wednesday, April 29 Peter Sorger	Chemical Genomics and Drug Discovery
Monday, May 4	Proposal Presentations
Wednesday, May 6	Proposal Presentations