

Mammalian Genetics
Spring 2019
Agata Smogorzewska (asmogorzewska@rockefeller.edu)

TIME: MONDAYS 1-3 PM

**** TUESDAYS 3-5 PM (four classes: May 7, May14, 21, and 28 will take place on Tuesdays)**

PLACE: CRC506 except Tuesday May 21st: CRC406

April 1	Agata Smogorzewska	1. Genetics 101 (review of key concepts in genetics) 2. Genetics of bone marrow failure syndromes
April 8	Richard Lifton	Disease gene identification by sequencing
April 15	Richard Lifton	Genetics of hypertension
April 22	Paul Cohen	Genetics of coronary heart disease
April 29	Robert Klein	Human gene mapping: linkage analysis and genome-wide association studies
May 6	Sid Strickland	Genetics of neurodegenerative diseases
May 7** 3-5 pm	Jeff Friedman	Genetics of obesity: discovery of Leptin
May 13	Elaine Fuchs	Of mice and men: reverse genetic approaches to human disorders
May 14** 3-5 pm	Ken Offit (MSKCC)	Clinical syndromes of cancer susceptibility
May 20	No class	
May 21** 3-5 pm	Ken Offit (MSKCC)	Ethical issues in genetic testing and genome profiling. Dr. Offit will be joined by a genetic counselor for part of this lecture
May 27	No class (Memorial Day)	
May 28** 3-5 pm	Agata Smogorzewska	Cancer genetics (somatic)
June 3	No class	
June 10	Britt Adamson (Princeton)	Genetic screening platforms
June 10 6PM	Book discussion: "Who We Are and How We Got Here: Ancient DNA and the New Science of the Human Past" by David Reich- Faculty and Student Club at RU.	

****Please note that these are Tuesdays.**

Course requirements: Class participation and a take home final exam.

"Principles of Genetics" by Snustad and Simmons, 6th edition is on hold in the library. **Please read chapters 1-6 before the start of the class.** The essential material from those chapters will be reviewed in Genetics 101. Other chapters in the book will be relevant during the course. 7th edition is available for Kindle if anybody is interested.

David's Reich book is available from Amazon.