

## MCB200AB Fall 2016

Date	Lecture #	Lecturer	
8/24/16	1	IH	Cell theory and structure
8/25/16	2	IH	History of genetics - linkage and recombination
8/26/16	3	AD	Chromosome structure, centromeres/telomeres
8/29/16	4	Randy Schekman	Membranes and trafficking
8/30/16	5	Marla Feller	Intro to microscopes
8/31/16	6	SM	Amino acid chemistry
9/1/16	7	DR	Nucleic acid chemistry
9/2/16	8	Jasper Rine	How to read a paper
9/5/16			No class - Labor Day
9/6/16	9	DR	Protein Purification
9/7/16	10	SM	Intro to macromolecules and thermodynamics
9/8/16	11	SM	Protein conformations: entropy and hydrophobicity
9/9/16	12		Small Group meetings-classic paper presentation prep
9/12/16	13	SM	Protein conformations: entropy and hydrophobicity
9/13/16	14	Jim Hurley	Crystallography & Cryo-EM
9/14/16	15	SM	Binding
9/15/16	16	GB	Antibodies
9/16/16	17		Classic paper presentations I
9/19/16	18	GB	Flow cytometry
9/20/16	19	DR	DNA replication: concepts and mechanisms
9/21/16	20	IH	mutations
9/22/16	21	DR	DNA repair pathways, genome editing
9/23/16	22		Classic paper presentations II
9/26/16	23	AD	Histone modifications/epigenetics
9/27/16	24	AD	Meiosis and recombination
9/28/16	25	Nick Ingolia	Translation
9/29/16	26	DR	Nucleic acid protein interactions
9/30/16	27		Nobel presentations
10/3/16	28	DR	Transcription
10/4/16	29	DR	RNA processing
10/5/16	30	DR	Transposition
10/6/16	31	GB	Generation of antigen receptor diversity
10/7/16	32		small group JC 1
10/10/16	33	IH	Genetic screens - haploid cells
10/11/16	34	IH	Genetic screens - diploid organisms
10/12/16	35	IH	Genetic screens - mosaic screens and modifiers
10/13/16	36	Craig Miller	Complex genetics
10/14/16	37		small group JC 2
10/17/16	38	SM	Basic kinetics
10/18/16	39	SM	Protein folding hydrogen exchange
10/19/16	40	Andy Martin	proteostasis
10/20/16	41	AD	Compartmentalization, phase separation
10/21/16	42		small group JC 3

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10/24/16	43	AD	receptors and signaling
10/25/16	44	DB	Intro to the nervous system and techniques
10/26/16	45	DB	Receptors and channels
10/27/16	46	DB	Membrane potential/Action Potential
10/28/16	47		small group JC 4
10/31/2016	48	Micha Rape	Signaling logic
11/1/2016	49	AD	motor proteins
11/2/16	50	GB	Innate Immunity and Pattern Recognition in the Immune System
11/3/16	51	GB	Major Histocompatibility Complex - Genetics and Biochemistry
11/4/16	52		small group JC 5
11/7/16	53	GB	Activation and Function of T cells
11/8/16	54	Dan Portnoy	Guest lecture: Immunobiology of intracellular pathogens
11/9/16	55	GB	Tolerance
11/10/16	56		small group JC 6
11/11/16			No class - Veteran's Day
11/14/16	57	Nicole King	
11/15/16	58	Nipam Patel	
11/16/16	59	Dirk Hockemeyer	
11/17/16	60		How to give a talk-preparing for SMS
11/18/16	61	DB	Synaptic transmission & Plasticity
11/21/16	62	DB	Celular mechanisms of learning and memory
11/22/16	63	DB	Pick a sensory system
11/28/16	64	Adesnik	
11/29/16	65	IH	Cancer
11/30/16	66	GB	Cancer immunotherapy
12/1/16	67	DB	Cancer Pain- molecular mechanisms of transduction, chemotherapies
12/2/16	68		Evaluations, Advanced Topics and Party
12/5/16			SMS
12/6/16			SMS
12/7/16			SMS
12/8/16			SMS
12/9/16			SMS
12/12/16			Final due online 5pm