

BMS 747 - FOUNDATIONS FOR CONTEMPORARY BIOMEDICAL RESEARCH I**Fall 2018 Schedule**

(August 15 - October 9, 2018)

Date	Day	Week	Lecture #	Time	Title/Topic	Leader/Lecturer
August 2018						
8/15/2018	W	1	1	9:00 AM	Intro and organization	Weed
8/15/2018	W	1	2	10:00 AM	Water, thermodynamics	Gunther
8/16/2018	Th	1	3	9:00 AM	Prokaryotes and eukaryotes	Robinson
8/16/2018	Th	1	4	10:00 AM	Prokaryotes and eukaryotes	Robinson
8/17/2018	F	1	5	9:00 AM	Eukaryotic organelles and biogenesis	Schaller
8/17/2018	F	1	6	10:00 AM	Eukaryotic organelles turnover - autophagy	Schaller
8/20/2018	M	2	-	9:00 AM	NO CLASS - READING MORNING	-
8/20/2018	M	2	-	10:00 AM	NO CLASS - READING MORNING	-
8/21/2018	Tu	2	7	9:00 AM	Cellular fuel and raw materials - metabolism	Gunther
8/21/2018	Tu	2	8	10:00 AM	Cellular fuel and raw materials - metabolism	Gunther
8/22/2018	W	2	9	9:00 AM	Anaerobic bioenergetics	Gunther
8/22/2018	W	2	10	10:00 AM	Aerobic bioenergetics	Gunther
8/23/2018	Th	2	11	9:00 AM	Biochemical Redox reactions	Gunther
8/23/2018	Th	2	12	10:00 AM	Primary and secondary protein structure	Gunther
8/24/2018	F	2	13	9:00 AM	Higher order protein structure	Gunther
8/24/2018	F	2	14	10:00 AM	Protein structure/function	Smith
8/27/2018	M	3	-	9:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
8/27/2018	M	3	-	10:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
8/27/2018	M	3	-	5:00 PM	BMS747 MIDTERM	NOTE DAY
8/27/2018	M	3	-	8:00 PM	Lectures 1-14	& TIME !!!!!
8/28/2018	T	3	-	9:00 AM	NO CLASS TODAY!!!	-
8/28/2018	T	3	-	10:00 AM	HURRAY!!!	-
8/29/2018	W	3	15	9:00 AM	Membranes composition overview	Ramamurthy
8/29/2018	W	3	16	10:00 AM	Membrane organization - proteins and carbohydrates I	Ramamurthy
8/30/2018	Th	3	17	9:00 AM	Membrane organization - proteins and carbohydrates II	Ramamurthy
8/30/2018	Th	3	18	10:00 AM	Protein and vesicular trafficking	Ramamurthy
8/31/2018	F	3	19	9:00 AM	Exocytosis and secretion	Ramamurthy

8/31/2018	F	3	20	10:00 AM	Endocytosis	Ramamurthy
September 2018						
9/3/2018	M	-	-	-	LABOR DAY	-
9/4/2018	Tu	4	21	9:00 AM	Allostery	Smith
9/4/2018	Tu	4	22	10:00 AM	Enzyme catalysis strategies	Smith
9/5/2018	W	4	23	9:00 AM	Catalysis and Kinetics - Michaelis-Menton	Smith
9/5/2018	W	4	24	10:00 AM	Kinetics and inhibitors	Smith
9/6/2018	Th	4	25	9:00 AM	Allosteric and multisubunit kinetics	Smith
9/6/2018	Th	4	26	10:00 AM	Regulation of enzyme activity	Smith
9/7/2018	F	4	-	-	STUDENT PRESENTATIONS	FACULTY
9/7/2018	F	4	-	-	STUDENT PRESENTATIONS	FACULTY
9/10/2018	M	5	-	-	NO CLASS - OPTIONAL REVIEW	FACULTY
9/10/2018	M	5	-	-	NO CLASS - OPTIONAL REVIEW	FACULTY
9/11/2018	Tu	5	27	9:00 AM	Diffusion - passive and facilitated	Huber
9/11/2018	Tu	5	28	10:00 AM	Pumps & channels 1	Huber
9/12/2018	W	5	29	9:00 AM	Pumps & channels 2	Huber
9/12/2018	W	5	30	10:00 AM	Calcium homeostasis	Huber
9/13/2018	Th	5	31	9:00 AM	Membrane bound enzymes	Huber
9/13/2018	Th	5	32	10:00 AM	Pharmacological targeting of channels and transporters I	Huber
9/14/2018	F	5	33	9:00 AM	Pharmacological targeting of channels and transporters II	Huber
9/14/2018	F	5	34	10:00 AM	Excitable cells and unidirectional conduction 1	Hardy
9/17/2018	M	6	-	9:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
9/17/2018	M	6	-	10:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
9/18/2018	Tu	6	-	9:00 AM	BMS747 MIDTERM	-
9/18/2018	Tu	6	-	10:00 AM	Lectures 21-34	-
9/19/2018	W	6	35	9:00 AM	Excitable cells and unidirectional conduction 2	Hardy
9/19/2018	W	6	36	10:00 AM	Synaptic transmission	Hardy
9/20/2018	Th	6	37	9:00 AM	Cytoskeleton - microtubules and intermediate filaments	Schaller
9/20/2018	Th	6	38	10:00 AM	Cytoskeleton - microfilaments	Weed
9/21/2018	F	6	39	9:00 AM	Dynamics & regulation	Weed
9/21/2018	F	6	40	10:00 AM	Molecular motors	Schaller
9/24/2018	M	7	-	9:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
9/24/2018	M	7	-	10:00	NO CLASS - OPTIONAL REVIEW	FACULTY

				AM		
9/25/2018	Tu	7	41	9:00 AM	Cytoskeleton drugs	Schaller/Weed
9/25/2018	Tu	7	42	10:00 AM	General Principles - modes, ligands, receptors, etc	Schaller
9/26/2018	W	7	43	9:00 AM	Signal Initiation - Ligand and Membrane Receptors	Schaller
9/26/2018	W	7	44	10:00 AM	Signal Propagation - Kinases and GTP Binding Proteins	Schaller
9/27/2018	T	7	45	9:00 AM	Lipids and Second Messengers	Schaller
9/27/2018	T	7	46	10:00 AM	Signaling to the Nucleus	Schaller
9/28/2018	F	7	47	9:00 AM	Control of cell cycle - molecular signaling pathways	Frisch
9/28/2018	F	7	48	10:00 AM	Control of cell cycle - molecular signaling pathways	Frisch
October 2018						
10/1/2018	M	8	-	9:00 AM	STUDENT PRESENTATIONS	FACULTY
10/1/2018	M	8	-	10:00 AM	STUDENT PRESENTATIONS	FACULTY
10/2/2018	Tu	8	-	9:00 AM	STUDENT PRESENTATIONS	FACULTY
10/2/2018	Tu	8	49	10:00 AM	Senescence and aging	Frisch
10/3/2018	W	8	50	9:00 AM	Control of cell death - molecular signaling pathways	Frisch
10/3/2018	W	8	51	10:00 AM	Control of cell death - molecular signaling pathways	Frisch
10/4/2018	Th	8	52	9:00 AM	Stem cells	Weed
10/4/2018	Th	8	53	10:00 AM	Signaling - reprise	Schaller
10/5/2018	F	8	-	9:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
10/5/2018	F	8	-	10:00 AM	NO CLASS - OPTIONAL REVIEW	FACULTY
10/8/2018	M	9	-	9:00 AM	BMS747 MIDTERM	-
10/8/2018	M	9	-	10:00 AM	Lectures 35-41, 47-52	-