

MCB 230 Schedule | Spring 2018

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General notes: no exam; depending on class size, we will meet in place of the discussion session and each student has to prepare a 15 min presentation about a paper, plus a handout; grade: 50% talk, 50% participation

1/16 (Tu)	MCB230-1	RS	Cell, organelle and membrane structure, function and dynamics
1/19 (Fri)	MCB230-2	RS	Nucleocytoplasmic transport and nuclear assembly
1/23 (Tu)	MCB230-3	DH	DNA repair/ Genome editing
1/25 (Th)	MCB230-4	DH	Nuclear organization/ CRISPR/CAS9 screens
1/30 (Tu)	MCB230-5	DH	DNA damage signaling/ early cancer
2/1 (Th)	MCB230-6	RS	Membrane assembly in the ER
2/6 (Tu)	MCB230-7	RS	Protein folding, misfolding, degradation during ER stress
2/13 (Tu)	MCB230-9	RS	Protein traffic from the ER through the Golgi complex
2/15 (Th)	MCB230-10	RS	Lysosome function and assembly
2/16 (Fri)	MCB230-8	RS	Organelle assembly: Mitochondria and peroxisomes
2/20 (Tu)	MCB230-11	RS	Autophagy
2/22 (Th)	MCB230-12	DH	Integrating cellular responses (p53 check point control)
2/27 (Tu)	MCB230-13	DH	Early development/Pluripotency and adult stem cells/reprogramming
3/1 (Th)	MCB230-14	DH	Controlling cell fate decisions and differentiation
3/6 (Tu)	MCB230-15	DH	Signal transduction/ Organismal signaling and development
3/8 (Th)	MCB230-16	DH	Signal transduction/ Organismal signaling and development II
3/13 (Tu)	MCB230-17	DH	Epigenetic regulation of cellular functions
3/15 (Th)	MCB230-18	RS	Traffic to the cell surface and the synapse
3/20 (Tu)	MCB230-19	RS	Extracellular vesicles
3/22 (Th)	MCB230-20	MR	INTRODUCTION INTO SIGNALING
3/26-30	SPRING BREAK		
4/3 (Tu)	MCB230-21	MR	BISTABILITY (cell cycle transitions)
4/5 (Th)	MCB230-22	MR	OSCILLATORY SIGNALING
4/10 (Tu)	MCB230-23	MR	SIGNAL AMPLIFICATION (DNA repair)
4/12 (Th)	MCB230-24	MR	PULSATILE SIGNALING
4/13 (Fri)	MCB230-25	MR	QUANTITATIVE SIGNALING (Wnt signaling)
4/20 (Fri)	MCB230-26	MR	LONG TERM SIGNALING (memory)
4/24 (Tu)	MCB230-27	MR	PHASE SEPARATION IN SIGNALING
4/26 (Th)	MCB230-28	MR	QUALITY CONTROL IN SIGNALING (autophagy)
4/30-5/4	RRR week		