## MCB 64. Cell Biology in the World Syllabus - Spring 2022

Date	Meeting	Subject	Notes
Tu Jan 25 Jessica Liu	L1	Welcome / course introduction Guide to approaching PIEs How do we want to learn? Growth mindset, what do you value in a learning community?	Confirm Poll Everywhere registration
Th Jan 27 Sam Kunes	L2	What happens in the womb: inheritance and environment	
Tu Feb 1 Sam Kunes	L3	Epigenetics and molecular mechanisms of inheritance	
Th Feb 3 Jessica Liu	L4	Paper discussion: Weaver <i>et al</i> .	
Tu Feb 8 Sam Kunes	L5	Paper discussion: Benito <i>et al</i> . 2018	Announce student teams
Th Feb 10 Sam Kunes	L6	Life cycle of mitochondria (short lecture after PIE 1)	PIE 1 (covers L2-L4)
Tu Feb 15 Sam Kunes	L7	Mitochondria	
Th Feb 17 <i>Jessica Liu</i>	L8	Paper discussion: Fan et al. 2008	
Tu Feb 22 Sam Kunes	L9	Neuromuscular junction / muscular dystrophy	
Th Feb 24 Sam Kunes	L10	Gene editing / muscular dystrophy (short lecture after PIE 2)	PIE 2 (covers L5-L8)

## **MCB 64**

Tu Mar 1 Sam Kunes Jessica Liu	L11	Paper discussion: Nelson et al. 2016 (research article) Isasi et al. 2016 (commentary)	
Th Mar 3 Jessica Liu	L12	Your immune system: an overview	
Tu Mar 8 Jessica Liu	L13	Viruses: HIV and COVID-19	
Th Mar 10 Jessica Liu	L14	CRISPR/Cas9-HIV Case Study (short lecture after PIE 3)	PIE 3 (covers L9-L11)
Tu Mar 15	-	No Class – Spring Break	
Th Mar 17	-	No Class – Spring Break	
Tu Mar 22 Jessica Liu	L15	HIV and COVID-19 denialism Global Impact of HIV and COVID-19	
Th Mar 24 Jessica Liu	L16	Time to work on case development	PIE 4 (covers L12-L14)
Tu Mar 29 Jessica Liu		Case development session 1: Present character backstories	Character backstory slides due Team narrative outline due
Th Mar 31 Jessica Liu		Case development session 1: Present character backstories	
Tu Apr 5 Sam Kunes	L17	Aging and pathology	
Th Apr 7 Sam Kunes	L18	Alzheimer's disease	Research summary and personal reflection 1 due

## **MCB 64**

Tu Apr 12 Sam Kunes	L19	Molecular mechanisms of aging	
Th Apr 14 Sam Kunes	L20	Paper discussion: Sahu <i>et al</i> . 2021	
Tu Apr 19 Jessica Liu	L21	Aging and society	
Th Apr 21 Jessica Liu		Character closing narratives	PIE 5 (covers L17-L19)
Tu Apr 26 Jessica Liu		Case development session 2: The Pilots	Last day of classes  Presentation slides due
Th Apr 28 Jessica Liu		Case development session 2: The Pilots	Reading period begins
Tu May 3 Jessica Liu		Case development session 2: The Pilots	During reading period  Personal Reflection 2 due