

7.00 COVID-19, SARS-CoV-2 and the Pandemic

Tuesdays 11:30-12:30

Units: 1-0-1

Grade: P/D/F

Course description: Lectures by leading experts on the fundamentals of coronavirus and host cell biology, immunology, epidemiology, clinical disease, and vaccine and therapeutic development. This is an exploratory subject, open to undergraduate and graduate students.

Faculty: Richard Young, Facundo Batista and guest faculty, including Drs. David Baltimore, James Bradner, Victoria Clark, Kizzmekia Corbett, Anthony Fauci, Britt Glaunsinger, Akiko Iwasaki, Eric Lander, Michael Mina, Michel Nussenzweig, Shiv Pillai, Arlene Sharp, Skip Virgin, and Bruce Walker.

Teaching Assistant: Lena Afeyan

September

1	COVID-19 and the pandemic	Bruce Walker, Ragon, MIT, MGH
8	Coronavirus biology	Britt Glaunsinger, HHMI, UC Berkeley
15	Virology and lessons from the AIDS pandemic	David Baltimore, MIT/Caltech
22	Insights from the COVID-19 pandemic	Anthony Fauci, NIAID
29	Viral immunology	Michel Nussenzweig, Rockefeller

October

6	Target cells and the innate response	Shiv Pillai, Ragon, MGH
13	No lecture	
20	The patient	Victoria Clark, Whitehead/MGH
27	Epidemiology	Michael Mina, Harvard

November

3	Immunology: T cells	Arlene Sharpe, HMS, Brigham
10	Vaccines	Kizzmekia Corbett, NIH
17	Immunology: antibodies	Akiko Iwasaki, Yale
24	Small molecule therapeutics	James Bradner, Novartis Institutes

December

1	Therapeutics discovery	Skip Virgin, Vir
8	Rapid Research Response in a Pandemic	Eric Lander, Broad Institute

Note: Our speakers are among the leading scientists in diverse areas relevant to COVID-19. Some of these scientists are employed by biopharmaceutical companies; our selection of these speakers is not meant as an endorsement of these companies or their products.