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.