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

Wednesdays 9-10am
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. Bruce Walker, Anthony Fauci, Britt Glaunsinger, Shiv Pillai, Rochelle Walensky, Salim Kari, Victoria Clark, Arup Chakraborty, Shane Crotty, Amy Barczak, Andrew Ward, Dan Barouch, and Laura Walker.

Teaching Assistant: Kalon Overholt

**September**

8 Covid-19 and the Pandemic
Bruce Walker, Ragon, MIT, MGH

15 Insights from the Covid-19 Pandemic
Anthony Fauci, NIAID

22 Coronavirus Biology
Britt Glaunsinger, HHMI, UC Berkeley

29 Target Cells and the Innate Response
Shiv Pillai, Ragon, MGH

**October**

6 Public Health
Rochelle Walensky, Director, Centers for Disease Control

13 Covid-19: Looking Ahead at 2021
Salim S. Abdool Karim, CAPRISA/Columbia

20 The Patient
Victoria Clark, Whitehead/MGH

27 Vaccination Through the Ages: From Smallpox to COVID-19 and Beyond
Arup Chakraborty, MIT

**November**

3 Adaptive Immunity and Immune Memory To Sars-CoV-2 and Covid-19
Shane Crotty, La Jolla Institute

10 The COVID-19 Clinic
Amy Barczak, Ragon, MGH, MIT and Harvard

17 Understanding the Structure of the Virus
Andrew Ward, DISCoBio, Scripps

24 No Class

**December**

1 Covid-19 Vaccine Development
Dan Barouch, BIDMC/Ragon

8 Broadly Neutralizing Antibodies to Speed Pandemic Responses
Laura Walker, Director of Adimab
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.