

COVID-19 Immunology, Vaccines and Lessons for the Future

Day 1 - June 9th 2022

Tercentenary Hall L2.15

Trinity Biomedical Sciences Institute, Trinity College Dublin

Welcome

- 08.30 Registration
08.45 Welcome from **Prof. Kingston Mills**, Director Trinity Biomedical Sciences Institute.
08.50 Opening of conference by **Dr. Linda Doyle**, Provost, Trinity College Dublin.

Session 1 - The COVID-19 Pandemic in Ireland

Chair: Prof. Aideen Long, Trinity College Dublin.

- 09.00 **SARS-CoV-2: the Virus, the Variants, and the Future**
Dr. Cillian De Gascun, National Virus Reference Laboratory, UCD.
09.30 **Epidemiological Modelling**
Prof. Cathal Walsh, University of Limerick.
10.00 **Serology and Beyond - Measuring SARS-CoV-2 Immunity in a Diagnostic Laboratory**
Prof. Niall Conlon, St. James Hospital & Trinity College Dublin.
10.30 Tea/Coffee

Session 2 - COVID-19 Vaccines

Chair: Dr. Anne Moore, University College Cork.

- 11.00 **Some Lessons from Developing a Viral Vectored Vaccine for COVID-19**
Prof. Adrian Hill, The Jenner Institute & University of Oxford.
11.30 **Lessons Learnt From the Vaccine Task Force**
Dame Kate Bingham, SV Health Investors LLC & Former Chair of the UK Vaccine Taskforce.
12.00 **Next Generation COVID-19 Vaccines that Induce Sterilizing Immunity and Memory T cells in the Respiratory Mucosa**
Prof. Kingston Mills, Trinity College Dublin.
12.30 Lunch

Session 3 - Short Talks From Post-Doctoral Researchers

Chair: Prof. Padraic Fallon, Trinity College Dublin

- 13.45 **An Adenoviral Vector Vaccine against SARS-CoV-2 Elicits Trained Immunity in Human Monocytes.** Dearbhla Murphy, Trinity College Dublin.
Changes in the Metabolome with COVID-19. Dr. Katie O'Brien, Trinity College Dublin
Aberrant Neutrophils are Associated with Disease Severity of SARS-CoV-2 .
Dr. Conor Finlay, Trinity College Dublin

Session 4 - Immunity to SARS-CoV-2

Chair: Prof. Ed Lavelle, Trinity College Dublin.

- 14.30 **Immune Responses to SARS-CoV-2** (via Zoom)
Prof. Akiko Iwasaki, Yale University/Howard Hughes Medical Institute, USA.
15.00 **The Study of Adaptive Responses to SARS CoV-2 in Infection and Vaccination**
Prof. Alex Sette, La Jolla Institute for Immunology, USA.
15.30 **Modeling and Predicting the Dynamics of the COVID-19 Pandemic**
Prof. Eran Segal, Weizmann Institute of Science, Israel.
16.00 Tea/Coffee

Keynote Talk

Chair: Prof. Cliona O'Farrelly, Trinity College Dublin.

- 16.30 **The Human Genetic and Immunological Determinants of Life-threatening COVID-19** (via zoom)
Prof. Jean-Laurent Casanova, The Rockefeller University Howard Hughes Medical Institute, USA.
17.10 Close of Day One