



Influenza 2018: Centenary of the 1918 Pandemic

Sunday 24th –Tuesday 26th June 2018
Francis Crick Institute, London, UK

Preliminary Programme

Sunday 24 June	
16:00-16:10	Welcome & Opening <i>John Skehel and John McCauley, Francis Crick Institute, London, UK</i>
16:10-18:10	Session 1: Chair: <i>Robert Webster, St. Jude Children's Research Hospital, Memphis, TN, USA</i>
16:10-16:50	Keynote Lecture Then and Now <i>Sally Davies, Chief Medical Officer for England, London, UK</i>
16:50–17:30	Influenza Pandemics of the Past Century <i>Robert Webster, St. Jude Children's Research Hospital, Memphis, TN, USA</i>
17.30–18.10	Lessons From the 1918 Virus <i>Jeffrey Taubenberger, NIAID, Bethesda, MD, USA</i>
18.15-19:30	Drinks Reception – Manby Gallery, Francis Crick Institute
Monday 25 June	
09:00-10:45	Session 2: Virus Infection/Replication Chair: <i>Robert Lamb, HHMI, Northwestern University, Evanston, IL, USA</i>
09:00-09:15	Introduction Influenza Virus Entry into Cells and Assembly: An Overview <i>Robert Lamb, HHMI, Northwestern University, Evanston, IL, USA</i>
09:15 - 09:45	Imaging influenza virus membrane fusion <i>Peter Rosenthal, Francis Crick Institute, London, UK</i>
09:45 - 10:15	Cap-Snatching and Host-Viral Interactions Impacting Viral RNA Synthesis <i>Robert Krug, University of Texas, Austin, TX, USA</i>
10.15 –10:45	Flu-Vision: Total Imaging Systems for Analyzing Influenza Virus Infection <i>Yoshi Kawaoka, University of Wisconsin, Madison, WI, USA and University of Tokyo, Tokyo, Japan</i>
10:45-11:15	Tea/Coffee break

11:15-12:30	<p>Session 3: Antivirals Chair: Peter Colman, <i>The Walter and Eliza Hall Institute of Medical Research Melbourne, Australia</i></p> <p>Introduction Drug Discovery <i>Peter Colman, The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia</i></p> <p>Structure, Mechanism and Drug Targeting of the Influenza Replication Machine <i>Stephen Cusack, EMBL, Grenoble, France</i></p> <p>Neuraminidase Inhibitors for the Treatment of Influenza <i>Jonathan Van-Tam, Department of Health, London, UK</i></p>
11:15-11:30	
11:30-12:00	
12:00-12:30	
12:30-13:45	Lunch break
13:45-15:00	<p>Session 4: Virus diversity Chair: John Skehel, <i>Francis Crick Institute, London, UK</i></p> <p>Introductory talk Mutation Structural Map <i>John Skehel, Francis Crick Institute, London, UK</i></p> <p>Receptor Affinity and Specificity <i>Steven Gamblin, Francis Crick Institute, London, UK</i></p> <p>Human Influenza Virus Receptors on Airway Epithelial Cells <i>James Paulson, Scripps Research Institute, La Jolla, CA, USA</i></p>
13:45-14:00	
14:00-14:30	
14:30-15:00	
15:00-15:30	Tea/Coffee break
15:30-16:30	<p>Session 4: Virus diversity continued</p> <p>Adaptive Changes in HA, NA and PB1 During Emergence of Pandemic Influenza <i>Mikhail Matrosovich, Philipps University, Marburg, Germany</i></p> <p>Animal Orthomyxoviruses and the Origins of Influenza <i>Edward Holmes, The University of Sydney, Sydney, Australia</i></p> <p>Session 5: Immunity Chair: Alain Townsend, <i>Oxford University, Oxford, UK</i></p> <p>Introduction Protective B and T Cell Responses to H7N9 Viruses <i>Alain Townsend, Oxford University, Oxford, UK</i></p> <p>Role of Interferon-Lambda in Host Defence Against Influenza Viruses <i>Peter Staeheli, University of Freiburg, Germany</i></p> <p>Adaptive Immunity <i>Speaker TBC</i></p>
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Tuesday 26 June	
09:00-10:30	<p>Session 6: Transmission Chair: <i>George Fu Gao, Chinese Centre for Disease Control and Prevention, Chinese Academy of Sciences, Beijing, China</i></p> <p>Introduction <i>George Fu Gao, Chinese Centre for Disease Control and Prevention, Chinese Academy of Sciences, Beijing, China</i></p> <p>Natural Transmission <i>Yi Guan, University of Hong Kong, Hong Kong SAR, China</i></p> <p>Intra-Host Adaptation and the Transmission of Defective Particles <i>Elodie Ghedin, New York University, New York, USA</i></p> <p>Determinants of Influenza Virus Transmission in Mammals <i>Ron Fouchier, Erasmus Medical Centre, Rotterdam, The Netherlands</i></p>
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10:45-11:15	Tea/Coffee break
11:15-13:00	<p>Session 7: Vaccines Chair: <i>John McCauley, Francis Crick Institute, London, UK</i></p> <p>Introduction Surveillance, Strain Selection and Vaccines <i>John McCauley, Francis Crick Institute, London, UK</i></p> <p>Development of Nanoparticle-Based Influenza Vaccines <i>John Mascola, NIAID, Bethesda, MD, USA</i></p> <p>Immune History and Seasonal Influenza Virus Susceptibility <i>Scott Hensley, University of Pennsylvania, PA, USA</i></p> <p>Live Attenuated Vaccine Programme in the UK: Is it Working? <i>Maria Zambon, Public Health England, London, UK</i></p>
11:15-11:30	
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12:30-13:00	
13:00-14:15	Lunch break
14:15-14:45	<p>Session 7: Vaccines continued</p> <p>Universal Influenza Virus Vaccines <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA</i></p> <p>Tackling Influenza with Broadly Neutralizing Antibodies <i>Davide Corti, Humabs, Bellinzona, Switzerland</i></p>
14:45-15:15	
15:15-16:00	Tea/Coffee break
16:00-17:15	<p>Session 8: The Future? Chair: <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA</i></p> <p>Introduction <i>The Future?</i> <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA</i></p> <p>Forecasting Flu Pandemics <i>John Edmunds, London School of Hygiene and Tropical Medicine, London, UK</i></p> <p>Responding to the Next Pandemic: Are we Ready? <i>Jackie Katz, CDC, Atlanta, GA, USA</i></p>
16:00-16:15	
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17:15-18:00	<p>Summary, conclusions and discussion <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA et al</i> Close of Meeting</p>