



## **Influenza 2018: Centenary of the 1918 Pandemic**

**Sunday 24<sup>th</sup> –Tuesday 26<sup>th</sup> June 2018**  
**Francis Crick Institute, London, UK**

### **Preliminary Programme**

<b>Sunday 24 June</b>	
<b>16:00-16:25</b>	<b>Welcome</b> <i>John Skehel and John McCauley, Francis Crick Institute, London, UK</i>  <b>Welcome Address</b> <i>Dr Tedros Adhanom Ghebreyesus, Director General, WHO, Geneva, Switzerland (TBC)</i>
<b>16:25-18:25</b>	<b>Session 1:</b> <b>Chair:</b> <i>Robert Webster, St. Jude Children's Research Hospital, Memphis, TN, USA</i>
<b>16:25-17:05</b>	<b>Keynote Lecture</b> Then and Now <i>Sally Davies, Chief Medical Officer for England, London, UK</i>
<b>17:05–17.45</b>	Influenza Pandemics of the Past Century <i>Robert Webster, St. Jude Children's Research Hospital, Memphis, TN, USA</i>
<b>17.45–18.25</b>	Lessons From the 1918 Virus <i>Jeffrey Taubenberger, NIAID, Bethesda, MD, USA</i>
<b>18.30-19:30</b>	<b>Drinks Reception – Manby Gallery, Francis Crick Institute</b>
<b>Monday 25 June</b>	
<b>09:00-10:45</b>	<b>Session 2: Virus Infection/Replication</b> <b>Chair:</b> <i>Robert Lamb, HHMI, Northwestern University, Evanston, IL, USA</i>
<b>09:00-09:15</b>	<b>Introduction</b> Influenza Virus Entry into Cells and Assembly: An Overview <i>Robert Lamb, HHMI, Northwestern University, Evanston, IL, USA</i>
<b>09:15 - 09:45</b>	Imaging influenza virus membrane fusion <i>Peter Rosenthal, Francis Crick Institute, London, UK</i>
<b>09:45 - 10:15</b>	Cap-Snatching and Host-Viral Interactions Impacting Viral RNA Synthesis <i>Robert Krug, University of Texas, Austin, TX, USA</i>
<b>10.15 –10:45</b>	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>
<b>10:45-11:15</b>	<b>Tea/Coffee break</b>

11:15-12:30	<p><b>Session 3: Antivirals</b>  <b>Chair:</b> Peter Colman, <i>The Walter and Eliza Hall Institute of Medical Research Melbourne, Australia</i></p> <p><b>Introduction</b>  Drug Discovery  Peter Colman, <i>The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia</i></p> <p>Structure, Mechanism and Drug Targeting of the Influenza Replication Machine  Stephen Cusack, <i>EMBL, Grenoble, France</i></p> <p>Anti-Neuraminidase Antivirals: Evidence and Debate  Jonathan Van-Tam, <i>Department of Health, London, UK</i></p>
11:15-11:30	
11:30-12:00	
12:00-12:30	
12:30-13:45	<b>Lunch break</b>
13:45-15:00	<p><b>Session 4: Virus diversity</b>  <b>Chair:</b> John Skehel, <i>Francis Crick Institute, London, UK</i></p> <p><b>Introductory talk</b>  Mutation Structural Map  John Skehel, <i>Francis Crick Institute, London, UK</i></p> <p>Receptor Affinity and Specificity  Steven Gamblin, <i>Francis Crick Institute, London, UK</i></p> <p>Human Influenza Virus Receptors on Airway Epithelial Cells  James Paulson, <i>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	<b>Tea/Coffee break</b>
15:30-16:30	<p><b>Session 4: Virus diversity (continued)</b>  <b>Chair:</b> Sylvie van der Werf, <i>Institut Pasteur, Paris, France</i></p> <p>Adaptive Changes in HA, NA and PB1 During Emergence of Pandemic Influenza  Mikhail Matrosovich, <i>Phillipps University, Marburg, Germany</i></p> <p>Animal Orthomyxoviruses and the Origins of Influenza  Edward Holmes, <i>The University of Sydney, Sydney, Australia</i></p> <p><b>Session 5: Immunity</b>  <b>Chair:</b> Alain Townsend, <i>Oxford University, Oxford, UK</i></p> <p><b>Introduction</b>  Protective B and T Cell Responses to H7N9 Viruses  Alain Townsend, <i>Oxford University, Oxford, UK</i></p> <p>Role of Interferon-Lambda in Host Defence Against Influenza Viruses  Peter Staeheli, <i>University of Freiburg, Germany</i></p> <p>What Does the Host Immune Response Tell Us About the Pathogenesis of Influenza?  Peter Openshaw, <i>Chris Chiu and Anne O'Garra, London, UK</i></p> <p><b>Poster Reception</b></p>
15:30-16:00	
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17:30-17.50	
18:00-19.00	

<b>Tuesday 26 June</b>	
<b>09:00-10:30</b>	<b>Session 6: Transmission</b> <b>Chair:</b> <i>George Fu Gao, Chinese Centre for Disease Control and Prevention, Chinese Academy of Sciences, Beijing, China</i>
<b>09:00-09:15</b>	Introduction <i>George Fu Gao, Chinese Centre for Disease Control and Prevention, Chinese Academy of Sciences, Beijing, China</i>
<b>09:15-09:45</b>	Natural Transmission <i>Yi Guan, University of Hong Kong, Hong Kong SAR, China</i>
<b>09:45-10:15</b>	Intra-Host Adaptation and the Transmission of Defective Particles <i>Elodie Ghedin, New York University, New York, USA</i>
<b>10:15-10:45</b>	Determinants of Influenza Virus Transmission in Mammals <i>Ron Fouchier, Erasmus Medical Centre, Rotterdam, The Netherlands</i>
<b>10:45-11:15</b>	<b>Tea/Coffee break</b>
<b>11:15-13:00</b>	<b>Session 7: Vaccines</b> <b>Chair:</b> <i>John McCauley, Francis Crick Institute, London, UK</i>
<b>11:15-11:30</b>	<b>Introduction</b> Surveillance, Strain Selection and Vaccines <i>John McCauley, Francis Crick Institute, London, UK</i>
<b>11:30-12:00</b>	Development of Nanoparticle-Based Influenza Vaccines <i>John Mascola, NIAID, Bethesda, MD, USA</i>
<b>12:00-12:30</b>	Immune History and Seasonal Influenza Virus Susceptibility <i>Scott Hensley, University of Pennsylvania, PA, USA</i>
<b>12:30-13:00</b>	Live Attenuated Vaccine Programme in the UK: Is it Working? <i>Maria Zambon, Public Health England, London, UK</i>
<b>13:00-14:15</b>	<b>Lunch break</b>
<b>14:15-14:45</b>	<b>Session 7: Vaccines (continued)</b> <b>Chair:</b> <i>Wendy S Barclay, Imperial College, London, UK</i>
<b>14:45-15:15</b>	Universal Influenza Virus Vaccines <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA</i>
<b>15:15-16:00</b>	Tackling Influenza with Broadly Neutralizing Antibodies <i>Davide Corti, Humabs, Bellinzona, Switzerland</i>
<b>15:15-16:00</b>	<b>Tea/Coffee break</b>
<b>16:00-17:15</b>	<b>Session 8: The Future?</b> <b>Chair:</b> <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA</i>
<b>16:00-16:15</b>	<b>Introduction</b> <i>The Future?</i> <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA</i>
<b>16:15-16:45</b>	Forecasting Flu Pandemics <i>John Edmunds, London School of Hygiene and Tropical Medicine, London, UK</i>
<b>16:45-17:15</b>	Responding to the Next Pandemic: Are we Ready? <i>Jackie Katz, CDC, Atlanta, GA, USA</i>
<b>17:15-18:00</b>	<b>Summary, conclusions and discussion</b> <i>Peter Palese, Icahn School of Medicine at Mount Sinai, New York, USA et al</i> Close of Meeting