





Influenza 2018: Centenary of the 1918 Pandemic

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

Programme

Sunday 24 June

16.00 - 16.30	Welcome
	Welcome John McCauley <i>Francis Crick Institute, London, UK</i>
	Welcome Address Tedros Adhanom Ghebreyesus Director General, WHO, Geneva, Switzerland
	Welcome from ISIRV Lance Jennings Chair of ISIRV, University of Otago, New Zealand
	"Talune" Sani Muliaumaseali'i with Nina Thilas Mohs and the GAFA Arts Collective (GAC)
16.30 - 18.35	Session 1
	Chair John Skehel <i>Francis Crick Institute, London, UK</i>
16.30 - 17.15	John Skehel
16.30 - 17.15 17.15 - 17.55	John Skehel Francis Crick Institute, London, UK Keynote Lecture THEN AND NOW Sally Davies
	John Skehel Francis Crick Institute, London, UK Keynote Lecture THEN AND NOW Sally Davies Chief Medical Officer for England, London, UK INFLUENZA PANDEMICS OF THE LAST CENTURY Robert Webster St. Jude Children's Research Hospital,

Programme Monday 25 June

09.00 - 10.45	Session 2 Virus Infection/Replication
	Chair Robert Lamb <i>Northwestern University, Evanston, IL, USA</i>
09.00 - 09.15	Introduction INFLUENZA VIRUS ENTRY INTO CELLS AND ASSEMBLY: AN OVERVIEW Robert Lamb Northwestern University, Evanston, IL, USA
09.15 - 09.45	IMAGING INFLUENZA VIRUS MEMBRANE FUSION Peter Rosenthal Francis Crick Institute, London, UK
09.45 - 10.15	CAP-SNATCHING AND HOST-VIRAL INTERACTIONS IMPACTING VIRAL RNA SYNTHESIS Robert Krug University of Texas, Austin, TX, USA
10.15 - 10.45	FLU-VISION: TOTAL IMAGING SYSTEMS FOR ANALYZING INFLUENZA VIRUS INFECTION Yoshihiro Kawaoka University of Wisconsin, Madison, WI, USA and University of Tokyo, Tokyo, Japan
10.45 - 11.15	TEA / COFFEE BREAK & VIEWING OF POSTERS
11.15 - 12.30	Session 3 Antivirals
	Chair Peter Colman The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia
11.15 - 11.30	Introduction DRUG DISCOVERY Peter Colman The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia
11.30 - 12.00	STRUCTURE, MECHANISM AND DRUG TARGETING OF THE INFLUENZA REPLICATION MACHINE Stephen Cusack <i>EMBL, Grenoble, France</i>
12.00 - 12.30	ANTI-NEURAMINIDASE ANTIVIRALS: EVIDENCE AND DEBATE Jonathan Van-Tam Department of Health, London, UK
12.30 - 13.45	LUNCH BREAK & VIEWING OF POSTERS

13.45 - 15.00	Session 4 Virus Diversity
	Chair John Skehel, Francis Crick Institute, London, UK
13.45 - 14.00	Introduction MUTATION STRUCTURAL MAP John Skehel Francis Crick Institute, London, UK
14.00 - 14.30	RECEPTOR AFFINITY AND SPECIFICITY Steven Gamblin <i>Francis Crick Institute, London, UK</i>
14.30 - 15.00	HUMAN INFLUENZA VIRUS RECEPTORS ON AIRWAY EPITHELIAL CELLS James Paulson Scripps Research Institute, La Jolla, CA, USA
15.00 - 15.30	TEA / COFFEE BREAK & VIEWING OF POSTERS
15.30 - 16.30	Session 4 Virus Diversity continued
	Chair Sylvie van der Werf, Institut Pasteur, Paris, France
15.30 - 16.00	ADAPTIVE CHANGES IN HA, NA AND PB1 DURING EMERGENCE OF PANDEMIC INFLUENZA Mikhail Matrosovich Phillipps University, Marburg, Germany
16.00 - 16.30	ANIMAL ORTHOMYXOVIRUSES AND THE ORIGINS OF INFLUENZA Edward Holmes The University of Sydney, Sydney, Australia
16.30 - 18.10	Session 5 Immunity
	Chair Alain Townsend, Oxford University, Oxford, UK
16.30 - 17.00	Introduction PROTECTIVE B AND T CELL RESPONSES TO H7N9 VIRUSES Alain Townsend Oxford University, Oxford, UK
17.00 - 17.30	ROLE OF INTERFERON-LAMBDA IN HOST DEFENCE AGAINST INFLUENZA VIRUSES Peter Staeheli University of Freiburg, Germany
17.30 - 17.50	NOVEL ANTI-VIRAL MECHANISM OF HA STEM-SPECIFIC ANTIBODIES Jon Yewdell NIAID, Bethesda, MD, USA
17.50 - 18.10	WHAT DOES THE HOST IMMUNE RESPONSE TELL US ABOUT THE PATHOGENESIS OF INFLUENZA? Peter Openshaw, Chris Chiu and Anne O'Garra Imperial College and Francis Crick Institute, London, UK
18.10 - 19.30	POSTER RECEPTION

Programme Tuesday 26 June

09.00 - 10.30	Session 6 Transmission
	Chair George Fu Gao Chinese Centre for Disease Control and Prevention, Chinese Academy of Sciences, Beijing, China
09.00 - 09.30	Introduction HOST JUMP: MUCH MORE THAN WE SEE George Fu Gao Chinese Centre for Disease Control and Prevention, Chinese Academy of Sciences, Beijing, China
09.30 - 10.00	DETERMINANTS OF INFLUENZA VIRUS TRANSMISSION IN MAMMALS Ron Fouchier Erasmus Medical Centre, Rotterdam, The Netherlands
10.00 - 10.30	INTRA-HOST ADAPTATION AND THE TRANSMISSION OF DEFECTIVE PARTICLES Elodie Ghedin, New York University, New York, USA
10.30 - 11.00	TEA / COFFEE BREAK & VIEWING OF POSTERS
11.00 - 12.45	Session 7 Vaccines
11.00 - 12.45	Session 7 Vaccines Chair John McCauley Francis Crick Institute, London, UK
11.00 - 12.45 11.00 - 11.15	Chair John McCauley
	Chair John McCauley <i>Francis Crick Institute, London, UK</i> Introduction SURVEILLANCE, STRAIN SELECTION AND VACCINES John McCauley
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14.00 - 15.00	Session 7 Vaccines continued
	Chair Wendy Barclay <i>Imperial College, London, UK</i>
14.00 - 14.30	UNIVERSAL INFLUENZA VIRUS VACCINES Peter Palese Icahn School of Medicine at Mount Sinai, New York, USA
14.30 - 15.00	TACKLING INFLUENZA WITH BROADLY NEUTRALIZING ANTIBODIES Davide Corti Humabs, Bellinzona, Switzerland
15.00 - 15.45	TEA / COFFEE BREAK
15.45 - 17.45	Session 8 The Future?
	Chair Peter Palese Icahn School of Medicine at Mount Sinai, New York, USA
15.45 - 16.00	Introduction THE FUTURE? Peter Palese Icahn School of Medicine at Mount Sinai, New York, USA
16.00 - 16.30	FORECASTING FLU PANDEMICS John Edmunds London School of Hygiene and Tropical Medicine, London,UK
16.30 - 17.00	RESPONDING TO THE NEXT PANDEMIC: ARE WE READY? Jackie Katz <i>CDC, Atlanta, GA, USA</i>
17.00 - 17.45	SUMMARY, CONCLUSIONS AND DISCUSSION Peter Palese Icahn School of Medicine at Mount Sinai, New York, USA
	CLOSE OF MEETING