



THE SIXTH ESWI
INFLUENZA
CONFERENCE
10-13 SEPTEMBER 2017

CONFERENCE PROGRAMME

SCIENTIFIC
PROGRAMME

Organized by
European
Scientific
Working group on
Influenza

SCIENTIFIC PROGRAMME

10 SEPTEMBER 2017

13:15-14:45	SATELLITE SYMPOSIUM An integrated approach to understanding influenza: the PREPARE consortium	OMEGA
	<ul style="list-style-type: none"> ▪ CHAIRS: Peter Openshaw and Menno de Jong 1. Introduction to the PREPARE consortium, Menno de Jong, <i>University of Amsterdam, The Netherlands</i> 2. MOSAIC: a multicentre prospective study of severe influenza, Long Hoang, <i>Imperial College London, UK</i> 3. Influenza H1N1pdm infection of healthy volunteers, Chris Chiu, <i>Imperial College London, UK</i> 4. Transcriptomics in PREPARE, Cosimo Cristella, <i>University of Amsterdam, The Netherlands</i> 5. Is flu a disease of immune failure or excess, Peter Openshaw, <i>Imperial College London, UK</i> 	
15:00-16:30	SATELLITE SYMPOSIUM	OMEGA
16:45-18:15	SATELLITE SYMPOSIUM Should children be vaccinated against influenza?	OMEGA
	<p>Joint Symposium European Society for Paediatric Infectious Diseases and European Scientific Working group on Influenza</p>	
18:30-19:30	OPENING CEREMONY	OMEGA
	<p>WELCOME AND OPENING:</p> <ul style="list-style-type: none"> ▪ Ab Osterhaus, <i>ESWI conference chair</i> <p>PLENARY ADDRESS: Influenza vaccination as a key public health tool</p> <ul style="list-style-type: none"> ▪ Vytenis Andriukaitis, <i>EU Commissioner Health and Food Safety</i> <p>KEYNOTE LECTURE: A universal influenza virus vaccine</p> <ul style="list-style-type: none"> ▪ Peter Palese, <i>Mount Sinai School of Medicine, USA</i> 	
19:30-22:00	WELCOME RECEPTION	MAIN CONFERENCE HALL

11 SEPTEMBER 2017

07:30-09:00	SATELLITE SYMPOSIUM	OMEGA
09:15-10:15	PL01 PLENARY SESSION	OMEGA
	<p>KEYNOTE LECTURE: H5, H7 influenza viruses: where do we go?</p> <ul style="list-style-type: none"> ▪ Malik Peiris, <i>University of Hongkong</i> <p>Maternal immunization against influenza: benefits to mother and child</p> <ul style="list-style-type: none"> ▪ Marta Nunes, <i>University of Witwatersrand, RSA</i> 	
10:15-10:45	COFFEE BREAK	
	GUIDED POSTER TOUR	

10:45-12:30	PARALLEL SESSIONS OMEGA	ALFA
	SPA1 CLINICAL IMPACT AND DIAGNOSTIC APPROACHES <ul style="list-style-type: none"> ▪ CHAIR: Jianqing Xu, Fudan University Shanghai, PRC ▪ CO-CHAIR: Cheryl Cohen, National Institute for Communicable Diseases, RSA <ol style="list-style-type: none"> 1. The clinical impact of routine molecular point-of-care testing for respiratory viruses in hospitalised adults: results of a large pragmatic randomised controlled trial, Tristan Clark, University of Southampton, UK 2. In- and out-of-hospital mortality associated with seasonal and pandemic influenza and respiratory syncytial virus in South Africa 2009-2013, Cheryl Cohen, National Institute for Communicable Diseases, RSA 3. A Novel Pharmacoeconomic Model to Compare Seasonal Influenza Vaccines in Italian Adults Aged 65 Years and Above, Stefano Capri, Cattaneo-LIUC University, Italy 4. Nasopharyngeal microbial signatures associated with severe influenza in children and in adults, Laurence Josset, Hospices Civils de Lyon, France 	SPB1 VIRUS STRUCTURE AND REPLICATION <ul style="list-style-type: none"> ▪ CHAIR: Stephen Cusack, EMBL Grenoble, France ▪ CO-CHAIR: Rocío Coloma, Centro Nacional de Biotecnología, Madrid, Spain <ol style="list-style-type: none"> 1. Analysis of the Higher Order RNA Structures Present Inside the Influenza A Virus Genome, Bernadeta Dadonaite, University of Oxford, UK 2. High-resolution mapping of Influenza A RNA packaging signals by MIME (Mutational Interference Mapping Experiment), Maud Contrant, IBMC, France 3. Structural insights into the mechanisms of influenza A virus RNA replication, Haitian Fan, University of Oxford, UK 4. Mechanistic single-molecule analysis of influenza virus replication, Nicole Robb, University of Oxford, UK
12:30-14:00	LUNCH	
	SATELLITE SYMPOSIUM Organized by SANOFI PASTEUR OMEGA	
14:00-15:45	PARALLEL SESSIONS OMEGA	ALFA
	SPA2 EPIDEMICS AND PANDEMIC THREATS <ul style="list-style-type: none"> ▪ CHAIR: Yoshihiro Kawaoka, University of Wisconsin, USA ▪ CO-CHAIR: Peng Wu, University of Hong Kong, Hong Kong SAR <ol style="list-style-type: none"> 1. Identification of H1N1 influenza virus survival determinants: amino-acids on the HA protein modulate the stability of viruses in the environment, Thomas Labadie, Institut Pasteur, France 2. Evaluation of potential risk of transmission of Avian Influenza A at the human-animal interface in response to unusual crow die off in Bangladesh, Mahbubur Rahman, Institute of Epidemiology, Disease Control and Research, Bangladesh 3. Outbreak of highly pathogenic avian influenza A virus H5N1 among poultry in Ghana, Ivy Assante, Heinrich-Pette-Institute, Germany 4. Influenza-associated mortality in Yancheng, China, 2011-2015, Qian Xiong, University of Hong Kong, Hong Kong SAR 	SPB2 VIRAL FACTORS IN PATHOGENESIS <ul style="list-style-type: none"> ▪ CHAIR: Adolfo Garcia-Sastre, Mount Sinai School of Medicine, USA ▪ CO-CHAIR: Michelle Tate, University of Melbourne, Australia <ol style="list-style-type: none"> 1. Factors determining the optimum pH stability for pathogenicity and transmissibility of human influenza viruses, Anika Singanayagam, Imperial College London, UK 2. Variable pathogenicity of H7N7 recombinant viruses in chickens, turkeys and ducks, David Scheibner, Friedrich-Loeffler Institut, Germany 3. Avian-origin PB1 Segment of Influenza A Virus Confers a Parallel Selective Advantage towards Virus Adaptation and Pandemic Formation, Yan Zhou, University of Saskatchewan, Canada 4. Functional analysis of the influenza A virus M2 protein interaction with Na,K-ATPase in influenza pneumonia, Jessica Schulze, Robert Koch Institute, Germany
15:45-16:15	COFFEE BREAK	

16:15-18:00	PARALLEL SESSIONS	OMEGA	ALFA
	SPA3 IMMUNOLOGY <ul style="list-style-type: none"> ▪ CHAIR: Rafi Ahmed, Emory University, USA ▪ CO-CHAIR: Rory Dylan de Vries, Erasmus MC Rotterdam, The Netherlands <ol style="list-style-type: none"> 1. First identification of cross-reactive CD8+ T cell immunity across influenza A, B and C viruses, Marios Koutsakos, University of Melbourne, Australia 2. Engaging naive vs. memory B cells in humans: Lessons from H5N1 vaccination, Ali Ellebedy, Emory University, USA 3. Extra-epitopic amino acids influence recognition of the 2009 H1N1 pandemic influenza A virus by CD8+ T cells specific for the conserved M158-66 epitope, Carolien van de Sandt, Erasmus MC Rotterdam, The Netherlands 4. Constitutive TRIM22 expression confers intrinsic antiviral immunity in the respiratory tract, Edward Hutchinson, University of Glasgow, UK 		SPB3 MATHEMATICAL MODELING <ul style="list-style-type: none"> ▪ CHAIR: Colin Russell, Cambridge University, UK ▪ CO-CHAIR: Katelyn Gostic, University of California, USA <ol style="list-style-type: none"> 1. Population dynamics constrain immune escape in human influenza A, Dylan Morris, Princeton University, USA 2. Estimates of Annual and Average Global Seasonal Influenza-associated Respiratory Mortality form 1999-2015, Angela Iuliano, Centers for Disease Control and Prevention, USA 3. Optimizing Distribution of Pandemic Influenza Antivirals, speaker tbc 4. Should we expect broadly protective immunity and childhood hemagglutinin imprinting to impact seasonal influenza epidemiology? Katelyn Gostic, University of California, USA
18:00-19:30	SATELLITE SYMPOSIUM		OMEGA
12 SEPTEMBER 2017			
07:30-09:00	SATELLITE SYMPOSIUM		OMEGA
	COMPANY LECTURES: <ul style="list-style-type: none"> ▪ Medicago ▪ Janssen 		
09:15-10:15	PL02 PLENARY SESSION		OMEGA
	KEYNOTE LECTURES: <p>Clinical management of influenza: where do we go?</p> <ul style="list-style-type: none"> ▪ Jonathan Van-Tam, University of Nottingham, UK <p>Protective and pathological roles of coagulation proteases and PARs in influenza infection</p> <ul style="list-style-type: none"> ▪ Nigel Mackman, University of North Carolina at Chapel Hill 		
10:15-10:45	COFFEE BREAK		
	GUIDED POSTER TOUR		

10:45-12:30	PARALLEL SESSIONS OMEGA	ALFA
	SPA4 ANTIVIRALS AND RESISTANCE/ MONOCLONAL ANTIBODY THERAPIES <ul style="list-style-type: none"> ▪ CHAIR: Elena Govorkova, <i>St. Jude Children's Research Hospital, USA</i> ▪ CO-CHAIR: Florian Krammer <i>Mount Sinai School of Medicine, USA</i> <ol style="list-style-type: none"> 1. Mechanisms of protection of monoclonal anti-influenza B neuraminidase IgG, IgM and IgA antibodies in a murine challenge model, Veronika Chromikova, <i>Mount Sinai School of Medicine, USA</i> 2. A Host-Directed Antiviral Approach for Treatment of Influenza Virus Infections, Kelly Warfield, <i>Emergent Biosolutions, USA</i> 3. Impact of in-hospital neuraminidase inhibitor treatment on length of stay: an Individual Participant Data Meta-analysis, Sudhir Venkatesan, <i>University of Nottingham, UK</i> 4. Resistance analyses in subjects treated with pimodivir (Jnj-63623872): results from the phase 2b topaz trial in acute uncomplicated seasonal influenza, Johan Vingerhoets, <i>Janssen, Belgium</i> 	SPB4 ANIMAL FLU-ECOLOGY AND EPIDEMIOLOGY OF ANIMAL INFLUENZA <ul style="list-style-type: none"> ▪ CHAIR: Gavin Smith, <i>Duke-NUS, Singapore</i> ▪ CO-CHAIR: Josanne Verhagen, <i>Linnaeus University Växjö, Sweden</i> <ol style="list-style-type: none"> 1. Swarm incursions during winter 2016/17 of multiple reassortants of highly pathogenic avian H5N8 influenza strains causing the largest epizootic in birds ever recorded in Germany, speaker tbc 2. Circulation, prevalence and genetic analyses of wild bird avian influenza viruses in a key active surveillance site in Eurasia: 2010-2017, Nicola Lewis, <i>APHA Virology, UK</i> 3. Circulation of low and highly pathogenic avian influenza A viruses among wild and domestic birds in Ukraine, Denys Muzyka, <i>National Scientific Center Institute of Experimental and Clinical Veterinary Medicine, Ukraine</i> 4. Mobile poultry vendors in Bangladesh: practices and movement patterns, Ausraful Islam, <i>ICDDR, Bangladesh</i>
12:30-14:00	LUNCH	
	SATELLITE SYMPOSIUM Organized by SEQIRUS OMEGA	
14:00-15:45	PARALLEL SESSIONS OMEGA	ALFA
	SPA5 VACCINES: CURRENT AND NOVEL APPROACHES <ul style="list-style-type: none"> ▪ CHAIR: Guus Rimmelzwaan, <i>Erasmus MC Rotterdam, The Netherlands</i> ▪ CO-CHAIR: Ali Ellebedy, <i>Emory University, USA</i> <ol style="list-style-type: none"> 1. Nucleoside-modified mRNA vaccination induces influenza virus hemagglutinin stalk-specific antibody responses, Norbert Pardi, <i>University of Pennsylvania, USA</i> 2. Adjuvanted mini-HA induces broadly neutralizing antibodies in pre-exposed non-human primates which protect mice from lethal influenza challenge, Börries Brandenburg, <i>Janssen, The Netherlands</i> 3. Influenza virus hemagglutinin stalk-specific antibodies in human sera measured by ELISA correlate with in vivo protection in a mouse serum transfer model, Raffael Nachbagauer, <i>Mount Sinai School of Medicine, USA</i> 4. Pre-existing orthopoxvirus-specific immunity interferes with t cell responses induced by vaccination with recombinant modified vaccinia virus ankara in mice, Rory de Vries, <i>Erasmus MC Rotterdam, The Netherlands</i> 	SPB5 GENETICS AND EVOLUTION OF VIRUS AND HOST <ul style="list-style-type: none"> ▪ CHAIR: Ron Fouchier, <i>Erasmus MC Rotterdam, The Netherlands</i> ▪ CO-CHAIR: Craig Thompson, <i>University of Oxford, UK</i> <ol style="list-style-type: none"> 1. Avian influenza A/H10N7 virus outbreak in seals: identification and characterization of mutations and associated phenotypes driving airborne transmission between ferrets, Sander Herfst, <i>Erasmus MC, The Netherlands</i> 2. Characterization of a newly emerged variant of H7N9 virus containing a polybasic motif in the hemagglutinin protein, Honglin Chen, <i>University of Hong Kong, Hong Kong SAR</i> 3. Polymerase enhancing substitutions that arise during infection with highly pathogenic avian H5N1 influenza in humans, speaker tbc 4. Influenza virus quasispecies characterization of serial upper and lower respiratory tract samples from mechanically ventilated patients, Björn Koel, <i>Academic Medical Center Amsterdam, The Netherlands</i>
15:45-16:15	COFFEE BREAK	

16:15-18:00	PARALLEL SESSIONS	OMEGA	ALFA
	SPA6 EVALUATION OF VACCINE SAFETY AND EFFECTIVENESS	SPB6 RISK MANAGEMENT AND MITIGATION OF EPIDEMIC AND PANDEMIC THREATS	
	<p>CHAIR: Maryna Eichelberger, <i>Food and Drug Administration, USA</i></p> <p>CO-CHAIR: Katja Höschler, <i>Public Health England, UK</i></p> <ol style="list-style-type: none"> 1. Efficacy immunogenicity and safety study of a 0.5 ml dose of a quadrivalent inactivated influenza vaccine in children from 6 to 35 months, Stephanie Pepin, <i>Sanofi Pasteur, France</i> 2. Assessment of the effect of repeated vaccination on current season influenza vaccine effectiveness (IVE) in patients 60 years old or over, seasons 2013-2014 to 2015-2016 in the Valencia Region, Víctor Baselga-Moreno, <i>FISABIO, Spain</i> 3. A new hospital surveillance system in Norway for severe influenza in children, Håkon Bøås, <i>Institute of Public Health, Norway</i> 4. Immunogenicity and safety of an inactivated quadrivalent influenza vaccine co-administered with a 23-valent pneumococcal polysaccharide vaccine, versus separate administration, in ≥50-year-old adults: results from phase III, randomized, non-inferiority trial, Geert Leroux-Roels, <i>University of Ghent, Belgium</i> 	<ul style="list-style-type: none"> ■ CHAIR: Marie-Paule Kieny, <i>World Health Organization</i> ■ CO-CHAIR: Irina Isakova-Sivak, <i>Institute of Experimental Medicine Saint Petersburg, Russia</i> <ol style="list-style-type: none"> 1. Effect of a reinforced hospital campaign for seasonal influenza vaccination of healthcare workers 2016-2017 on nosocomial outbreaks in the University Hospital of Lyon, France, Bruno Lina, <i>University of Lyon, France</i> 2. Partnership for Influenza Vaccine Introduction: early progress in catalyzing influenza vaccine use in low and middle-income countries, speaker tbc 3. Outbreaks of highly pathogenic avian influenza A(H5N5) and A(H5N8) virus infection in birds: National risk assessments and protective measures for humans in 22 EU/EEA countries, 2016/17, Cornelia Adlhoch, <i>European Centre for Disease Prevention and Control, Sweden</i> 4. 2016/17 Seasonal Influenza Vaccine Uptake by Medical Students in the UK, Rachel Groome, <i>University of Nottingham, UK</i> 	
18:00-19:30	SATELLITE SYMPOSIUM		OMEGA
	<p>“Next generation influenza vaccines: the future of influenza immunization” organized by MUGAS Foundation</p>		
20:00-22:00	FAREWELL DINNER		LATVIA SOCIETY HOUSE

13 SEPTEMBER 2017

08:30-09:30	PL04 YOUNG SCIENTISTS PLENARY SESSION OMEGA	
	<ul style="list-style-type: none"> ▪ CHAIR: Ed Hutchinson, <i>University of Glasgow, UK</i> ▪ CO-CHAIR: Claude Hannoun, <i>Institut Pasteur Paris, France</i> <p>speakers:</p> <ol style="list-style-type: none"> 1. Debby van Riel, (<i>ESWI Best Body of Work award winner 2017</i>) 2. Matthew S. Miller, (<i>Best Oral Presentation ESWI 2014</i>) 3. Steven F. Baker, (<i>Best Poster Presentation ESWI 2014</i>) 4. Karen Laurie, (<i>Award Winner Orthomyxovirus Research Conference 2015</i>) 5. Jason Long, (<i>Award Winner Orthomyxovirus Research Conference 2015</i>) 	
09:30-10:00	COFFEE BREAK	
	GUIDED POSTER TOUR	
10:00-11:45	PARALLEL SESSIONS OMEGA	PARALLEL SESSIONS ALFA
	SPA7 MATERNAL AND CHILDHOOD IMMUNIZATION <ul style="list-style-type: none"> ▪ CHAIR: Terho Heikkinen, <i>University of Turku, Finland</i> ▪ CO-CHAIR: Marta Nunes, <i>University of Witwatersrand, RSA</i> <ol style="list-style-type: none"> 1. Seroprevalence of seasonal influenza virus infection among unvaccinated pregnant women in Bangladesh, 2013-2014, Zubair Akhtar, <i>ICDDR, Bangladesh</i> 2. Influenza A virus infection during pregnancy: high progesterone levels during pregnancy increase mortality in pregnant influenza infected mice by impairing the anti-viral immune response, Alexandra Hierweger, <i>University Medical Center Hamburg-Eppendorf, Germany</i> 3. A randomised controlled trial to increase influenza vaccine uptake in children aged from 6 to 24 months, Karene Yeung, <i>University of Hong Kong, Hong Kong SAR</i> 4. Assessing direct and indirect effects of pediatric influenza vaccination in Germany using individual-based simulations – Epidemiological considerations, Ruprecht Schmidt-Ott, <i>GlaxoSmithKline, Germany</i> 	SPB7 HOST FACTORS IN PATHOGENESIS <ul style="list-style-type: none"> ▪ CHAIR: Gülsah Gabriel, <i>Heinrich Pette Institute Hamburg, Germany</i> ▪ CO-CHAIR: Ivan Marazzi, <i>Mount Sinai School of Medicine, USA</i> <ol style="list-style-type: none"> 1. Emergence of Highly Virulent H1N1 Influenza Virus Strains in Allogeneically Pregnant Mice, Stephanie Bertram, <i>Heinrich Pette Institute, Germany</i> 2. SMARCA2-regulated host cell factors are required for MxA restriction of influenza A viruses, Alexandra Dudek, <i>Institute of Virology Freiburg, Germany</i> 3. Resistance to influenza A infections in mice carrying deletions in host protease genes, Klaus Schughart, <i>Helmholtz Centre for Infection Research, Germany</i> 4. The role of obesity in the generation of influenza virus quasispecies, Kirsty Short, <i>University of Queensland, Australia</i>
11:45-12:15	COFFEE BREAK	
12:15-13:45	PL05 PLENARY SESSION - LATE BREAKERS OMEGA	
	<ul style="list-style-type: none"> ▪ CHAIR: Sylvie van der Werf, <i>Institut Pasteur Paris, France</i> ▪ CO-CHAIR: Susanne Herold, <i>University of Giessen, Germany</i> <p style="text-align: center;">ABSTRACT SUBMISSION DEADLINE: 15 AUGUST 2017</p>	
	CC CLOSING CEREMONY OMEGA	
13:45-14:30	LUNCH	