1st International Meeting on Respiratory Pathogens (IMRP) 2015 Furama RiverFront, Singapore

Organised by International Society for Influenza and other Respiratory Virus Diseases (ISIRV)

Day 1 (Wednesday, 2 September 15)

Day I (W	/ednesday, 2 September 15)		
08:00 AM	u i i i	oster Setup (Jupiter Room)	
09:00 AM		enus	
		by IMRP Chairperson	
		/ernon Lee	
		by ISIRV Chairperson	
		nce Jennings by Guest-of-Honour	
		njamin Ong	
		Ministry Of Health, Singapore	
09:30 AM	Keynote Address		
		ing Threats and the BRAVE Initiative"	
40.45.484	·	/orld Health Organization)	
10:15 AM		break	
10:45 AM	Plenary I "Emerging Respiratory Viruses of Concern"		
		sity of Hong Kong) (Hong Kong)	
11:15 AM		nary II	
		ng Respiratory Bacteria"	
		niversity of Otago) (New Zealand)	
11:45 AM		ry Room	
		ion on Ebola Vila Ving (CIDED) (Singapora)	
	Chairperson: A/Prof Teo Yik Ying (CIDER) (Singapore) * "Advances in Ebola Virus Vaccines"		
	Prof Frederick Hayden (University of Virginia) (US)		
	 "Host jump of emerging viruses: Flu, MERS-CoV and Ebola" 		
	A/Prof Yi Shi (Chinese Academy of Sciences) (China)		
	"Clinical care of patients with Ébola Virus Disease"		
	A/Prof Robert Fowler (University of Toronto) (Canada)		
	*Clinical Management of Ebola Virus Disease Patients in the U.S. and Europe"		
	A/Prof Timothy Uyeki (US Centers for Disease Control and Prevention) (US)		
	"Ebola: Lessons for S.E. Asia" Prof Richard Coker (London School of Hygiene and Tropical Medicine & National University of Singapore) (Singapore)		
1:30 PM	Venus I/II	Venus III	
	Parallel Session 1	Parallel Session 2	
	"Burden and Epidemiology of Acute Respiratory	"Immunology of Respiratory Pathogens (including	
	Infections"	Disease Pathogenesis and Host Dynamics)"	
	Chairperson: <i>Dr Nikki Shindo</i>	Chairperson: Prof Menno de Jong	
	(World Health Organization) (Switzerland)	(University of Amsterdam) (Netherlands)	
	 "Epidemiology of Influenza in a household cohort study" [Invited Speaker] 	 "Protective immunity in the human airway against respiratory viral infections" [Invited Speaker] 	
	Prof Ben Cowling (University of Hong Kong) (Hong	Dr Chris Chiu (Imperial College London) (UK)	
	Kong)	2. Simila Sima (importar Sorreyo Loridori) (Orty	
	"Community-Acquired Pneumonia and Etiologies in	"Immunology of influenza and pneumococcal	
	the Hospitalized Setting" [Invited Speaker]	disease" [Invited Speaker]	
	Dr Seema Jain (US Centers for Disease Control and	Prof Lau Yu Lung (University of Hong Kong) (Hong	
	Prevention) (US)	Kong)	
	 "Clinical Presentations and Risk Factors for Mortality of Severe Influence Informations in a Textiany Care 	 "Influenza Virus and Respiratory Syncytial Virus 	
	of Severe Influenza Infections in a Tertiary Care Hospital, Singapore, 2011–2014" [ASN024]	Infections in Immunocompetent and Immunocompromised Patients and Ferrets"	
	Hanley Ho (Tan Tock Seng Hospital) (Singapore)	[ASN178]	
	Carried to the first condition of the confidence of	Koert Stittelaar (Viroclinics Biosciences) (Netherlands)	
	 "Clusters of human infections with avian influenza 	 "Cell Cycle Independent Role of Cyclin D3 in Host 	
	A(H7N9) in China, March 2013 – November 2014"	Restriction of Influenza Virus Infection" [ASN068]	
	[ASN121]	Ying Fan (University of Hong Kong Pasteur Research Pole)	
	Bo Liu (Chinese Center for Disease Prevention and Control)	(Hong Kong)	
	(China)		

	 "Epidemiological Evaluation of Infants and Young Children with Laboratory-Confirmed Respiratory Syncytial Virus Infection in England, 2010-2014" [ASN045] Rachel Reeves (Farr Institute of Health Informatics Research) (UK) 	 "Multi-strain Antibody Response following Acute Influenza A: Implications for Seroepidemiology" [ASN105] <i>Stacy Todd (Liverpool School of Tropical Medicine) (UK)</i> "Mycobacterium tuberculosis Acetyltransferase
		reduces the oxidative stress response through expression of peroxisomal membrane transporter protein" [ASN012] Geetanjali Ganguli (KIIT University) (India)
3:45 PM	Teal	preak
4:00 PM	Venus I/II	Venus III
	Parallel Session 3 "Advances in Respiratory Pathogen Vaccines"	Parallel Session 4 "Evolution and Molecular Epidemiology of Respiratory Infections"
	Chairperson: Dr Jean-Michel Heraud (Institut Pasteur) (Madagascar)	Chairperson: A/Prof Gavin Smith (Duke-NUS Medical School) (Singapore)
	"Clinical Assessment of Simian Adenovirus ChAdOx1 Expressing Conserved Influenza A Antigens in a Prime:Boost Regimen with MVA" [ASN010] Lynda Coughlan (University of Oxford) (UK)	 "Bioinformatics of respiratory pathogens: From sequence to structure to molecular mechanisms" [Invited Speaker] Dr Sebastian Maurer-Stroh (A*STAR Bioinformatics Institute) (Singapore)
	 "Cellular immune responses after live attenuated influenza vaccination in children, a clinical trial" [ASN189] Kristin Greve-Isdahl Mohn (University of Bergen) (Norway) 	 "Selective Bottlenecks Shape Evolutionary Pathways Taken During Mammalian Adaptation Of A 1918- Like Avian Influenza Virus" [ASN037] Louise Moncla (University of Wisconsin-Madison) (US)
	 "Development of a Universal Live-Attenuated Influenza H1N1 Vaccine Strain" [ASN011] Ke Xu (Institut Pasteur of Shanghai) (China) 	 "Predicting The Antigenic Evolution Of Pandemic H1N1 Influenza Virus In Humans Using Diversifying Selection Analysis" [ASN087] Alexandra Lee (J. Craig Venter Institute) (US)
	 "Quantifying Protection Against Influenza Virus Infection Measured By Hemagglutination-inhibition Assays In Vaccine Trials" [ASN098] Xiahong Zhao (Saw Swee Hock School of Public Health) (Singapore) 	 "Genetic Drift of Hemagglutinin (HA) of Influenza A(H3N2) Viruses Circulating in Cameroon Between 2010 and 2013" [ASN086] Richard Njouom (Centre Pasteur of Cameroon) (Cameroon)
	 "Molecular Epidemiology and Clinical Characterization of Influenza B among Pediatric Acute Respiratory Infection in Central Vietnam during 2007-2013 seasons" [ASN199] Keisuke Yoshihara (Nagasaki University) (Japan) 	 "First description of arenaviruses endemic to Southeast Asia with evidence of human respiratory disease" [ASN073] Philippe Buchy (GlaxoSmithKline Vaccines Asia Pacific) (Singapore)
6:00 PM	Jupiter Room	Venus III
	Poster Session I with Authors (Networking Drinks)	Expert Dialogue on Infection Control "Evidence-based Measures for Personal Protective Equipment and Hygiene for Healthcare Workers and the Public against Respiratory Infections" (Limited Slots Available) Chairperson: Dr Hsu Li Yang (Mount Elizabeth Novena Hospital) (Singapore) Dr Nikki Shindo (World Health Organization)
		 (Switzerland) A/Prof Timothy Uyeki (US Centers for Disease Control and Prevention) (US) A/Prof Brenda Ang (Tan Tock Seng Hospital) (Singapore)
7:30 PM		(Invited Speakers Only)
9:00 PM	End or	f Day 1

Day 2 (Thursday, 3 September 15)

Day 2 (1	hursday, 3 September 15)		
08:00 AM	Registration (Foyer) & Poster Setup (Jupiter Room)		
08:30 AM	Venus		
	Plenary III		
	"A Vaccine Surrogate for the Prevention of RSV Disease"		
	Dr JoAnn A. Suzich (MedImmune) (US)		
09:00 AM		ary IV	
		herapies for RVIs"	
		(University of Virginia) (US)	
09:30 AM		preak	
09:45 AM	Venus I/II	Venus III	
	Parallel Session 5		
	"AVG Session – Treatment Options for Respiratory	Parallel Session 6	
	Infections"	"New Advances in Diagnostics"	
	Co Chairmanana Duaf Nalaan Laa 0	Chairperson: A/Prof Lance Jennings	
	Co-Chairpersons: <i>Prof Nelson Lee</i> &	(Canterbury Health Laboratories & University of Otago) (New	
	A/Prof Aeron Hurt	Zealand)	
	 "Treatment options for influenza virus infections" 	 "GABRIEL study: case-control pneumonia 	
	[Invited Speaker]	multicenter pilot study" [Invited Speaker]	
	Prof Nelson Lee (Chinese University of Hong Kong)	Dr Glaucia Paranhos Baccalà (Fondation Merieux)	
	(Hong Kong)	(France)	
	 "Influenza antivirals - resistance and new 	"Aetiology of childhood pneumonia: experience from	
	compounds" [Invited Speaker]	the PERCH study" [Invited Speaker]	
	A/Prof Aeron Hurt (Peter Doherty Institute for Infection	Prof David Murdoch (University of Otago) (New	
	and Immunity) (Australia)	Zealand)	
	 "Safety And Pharmacokinetics In Healthy Volunteers 	 "Influenza Virus RNA In Aerosols In Patient 	
	Of The Anti-RSV Antiviral AK0529" [ASN062]	Rooms" [ASN111]	
	Stephen Toovey (Ark Biosciences) (Switzerland)	Nancy Hiu Lan Leung (The University of Hong Kong)	
	Stephen Tooley (Mik Biostantis) (Switzerland)	(Hong Kong)	
	"Development of an Iminosugar-Based Therapeutic	"Influenza Virus And RSV ViroSpot™ Assays For	
	as a Broad Spectrum Antiviral" [ASN164]	Direct Monitoring Of Phenotypic Resistance And	
	Aruna Sampath (Unither Virology LLC) (US)	Virus Neutralization" [ASN131]	
	Thana Sampatir (Small Villology ELS) (SS)	Carel Van Baalen (Virodinics Biosciences) (Netherlands)	
	"Therapeutic Antibodies Against Influenza A and	"New Antiviral Inhibitors to Influenza	
	Influenza B" [ASN204]	Neuraminidase Revealed by Mass Spectrometry"	
	Man-Wah Tan (Genentech Inc) (US)	[ASN208]	
	Wan van Tan (Schencen me) (SS)	Kevin Downard (University of New South Wales)	
		(Australia)	
	 "Effectiveness of a Patient-Based Health Education 	(Flastrana)	
	Intervention in Reducing Antibiotic Use For Acute		
	Upper Respiratory Tract Infections in the Private		
	Sector Primary Care Setting in Singapore" [ASN048]		
	Magdalene Lee (Yong Loo Lin School of Medicine)		
	(Singapore)		
11:45 AM	Mercur	v Room	
		on MERS-CoV	
		lational University of Singapore) (Singapore)	
	"MERS: history and options for intervention"		
	Prof Ab Osterhaus (University of Veterinary Medicine Hannover, Foundation) (Germany)		
	"Epidemiology and Transmission of MERS"		
	Dr Maria Van Kerkhove (Institut Pasteur) (France)		
	 "Unravelling the key drivers of MERS-CoV transmission" 		
	A/Prof Simon Cauchemez (Institut Pasteur) (France)		
	"MERS CoV Outbreak in South Korea"		
	A/Prof Yeon-Sook Kim (Chungnam National University Hospital) (S. Korea)		
	 "Results of povidone-iodine against Ebola, MERS, SARS and Influenza confirms new model virus, MVA virus, in 		
	EN14476 testing standard"		
	A/Prof Maren Eggers (Laboratory Enders & Partners Stuttgart) (Germany)		

1:45 PM	Venus I/II	Venus III
	Parallel Session 7	Parallel Session 8
	"Surveillance Systems and Public Health Prevention Strategies"	"AVG Session – Clinical Management of SARI / ALRIs including Critical Care"
	Chairperson: <i>Dr Daniel Jernigan (US Centers for Disease Control and Prevention) (US)</i>	Chairperson: Prof Lau Yu Lung (University of Hong Kong) (Hong Kong)
	 "Surveillance and Vaccination Strategies of Respiratory Infectious Diseases in China: Success and Challenges" [Invited Speaker] Dr Luzhao Feng (Chinese Center for Disease Control and Prevention) (China) 	"Clinical Management of SARI Immuno-modulatory Therapies" [Invited Speaker] Prof David Hui (Chinese University of Hong Kong) (Hong Kong)
	 "Human, Environmental and Animal Surveillance of Influenza A(H5N1) Virus in Cambodian Live Poultry Markets" [ASN138] Srey Viseth Horm (Institute Pasteur de Cambodia) (Cambodia) 	 "Advances in Critical Care in Severe Acute Respiratory Infections" [Invited Speaker] A/Prof William A. Fischer (University of North Carolina Chapel Hill) (US)
	"Human And Non-human Influenza Surveillance In Uganda From 2008 To 2014 - A One Health Approach" [ASN038] Derrick Mimbe (Makerere University Walter Reed Project) (Uganda)	 "Enterovirus D68, cause of severe respiratory disease in children and association with acute flaccid paralysis cases, Norway 2014" [ASN059] Karoline Bragstad (Norwegian Institute of Public Health) (Norway)
	 "Clinical Severity of Human Infections of Avian Influenza A(H7N9) Across Three Epidemics in Mainland China" [ASN220] Peng Wu (University of Hong Kong) (Hong Kong) 	 "Enterovirus D68 and Other Enterovirus Genotypes Identified in South African Patients Hospitalized with Severe Acute Respiratory Illness, 2009-2011" [ASN057] Orienka Hellferscee (National Institute for Communicable Diseases) (South Africa)
	 "Haemophilus haemolyticus: differentiation from NTHi and role in the respiratory tract" [ASN225] Janessa Pickering (University of Western Australia) (Australia) 	 "A novel nontoxic antiviral compound for late treatment of RSV and other respiratory infections" [ASN182] Andrej Egorov (HSC Development) (Russia)
3:30 PM		preak
3:45 PM		nus
	Plenary V "The science and practice of public health preparedness against directly transmissible respiratory pathogens" Prof Gabriel Leung (University of Hong Kong) (Hong Kong)	
4:15 PM	ISIRV Annual General Meeting	
5:00 PM	Jupiter Room	Mercury Room
	Poster Session II with Authors (Networking Drinks)	Bioinformatics Workshop Live Demo on Virus Pathogen Resource and Influenza Research Database (J. Craig Venter Institute) (US) Live Demo on FluSurver in Global Initiative for Sharing All Influenza Data (GISAID) (A*STAR Bioinformatics Institute) (Singapore)
7:00 PM	End of	E Day 2

(2) (Eriday 1) Santambar 15)

Day 3 (Fi	riday, 4 September 15)		
08:30 AM		nus	
	Plenary VI		
		sponse to Ebola"	
	Dame Barbara Stocking (Murray Edwards College, Cambridge) (UK)		
09:00 AM	Plenary VII		
	"Disease modelling to inform outbreak control" Prof Neil Ferguson (Imperial College London) (UK)		
09:30 AM		periar Coneye London) (OK) Dreak	
10:00 AM	Venus I/II	Venus III	
10.0071111	Special Track		
	"Updates on Respiratory Diseases for Policy Makers – Part 1"	Parallel Session 9 "Modelling the Spread of Respiratory Pathogens"	
	Chairperson: Prof Paul A. Tambyah (National University of Singapore) (Singapore)	Chairperson: A/Prof Simon Cauchemez (Institut Pasteur) (France)	
	 "International collaborative networks for the study of 	 "Use of a Multi-Strain SIR Model May Allow 	
	emerging respiratory infections"	Advance Forecasting of Seasonal Influenza	
	Prof Peter Horby (University of Oxford) (UK)	Epidemics" [ASN014]	
		Mike Jackson (Group Health Cooperative) (US)	
	"Vaccine Preventable Respiratory Diseases"	 "Using Simple Mathematical Models to Understand 	
	Prof Leo Yee Sin (Tan Tock Seng Hospital) (Singapore)	the Within-Host Dynamics of Influenza A Virus	
		Infection: From Theory to Clinical Implications" [ASN106]	
		Christoforos Hadjichrysanthou (Imperial College	
		London) (UK)	
	 "Respiratory diseases surveillance and preparedness 	 "Global Contact Matrices For The Socio- 	
	in Indonesia"	Demographic Spread Of Infectious Diseases"	
	Prof Tjandra Yoga Aditama (Indonesian Ministry of	[ASN154]	
	Health) (Indonesia)	Kiesha Prem (Saw Swee Hock School of Public Health)	
		(Singapore)	
	*Tackling TB, Influenza and MERS in Singapore"	"Assessing School Closure in Urban Singapore Using "Assessing School Closure in Urban Singapore Using "Assessing School Closure in Urban Singapore Using	
	A/Prof Jeffrey Cutter (Singapore Ministry of Health)	the GeoDEMOS Individual Based Modelling Platform" [ASN146]	
	(Singapore)	Joel Koo (Saw Swee Hock School of Public Health)	
		(Singapore)	
	"Impact and cost-effectiveness of interventions"	 "Individual and population trajectories of influenza 	
	A/Prof Vernon Lee (National University of Singapore)	antibody titers over multiple seasons in tropical	
	(Singapore)	Singapore" [ASN151]	
		Alex Cook (National University of Singapore) (Singapore)	
12:00 NN	Mercur		
		cines Against Influenza	
	Chairperson: A/Prof Gavin Smith (Duke-NUS Medical School) (Singapore) "Seasonality of Influenza in Tropical and Subtropical Asia: Implications for Vaccination Timing"		
	Dr Siddhartha Saha (US Centers for Disease Control and Prevention, India Office) (India)		
	 "Influenza B Virus Epidemiology and Burden in Asia Pacific: The Role of Quadrivalent Vaccines" 		
	Prof Ben Cowling (University of Hong Kong) (Hong Kong)		
	 "Seasonal influenza vaccine policy and implementation in Asia Pacific Countries: challenges and way forward" 		
	Prof John Tam (Hong Kong Polytechnic University) (Hong Kong)		

1:45 PM	Venus I/II	Venus III
	Special Track	Parallel Session 10
	"Updates on Respiratory Diseases for Policy Makers	"Respiratory Pathogen Co-infections (Viral-bacterial
	– Part 2"	and Viral-viral Interactions)"
	Chairperson: Prof Peter Horby	Co-Chairpersons: <i>Dr Jon McCullers</i> &
	(University of Oxford) (UK)	Prof Dennis Metzger
	 "Enterovirus D68 in 2014 – what happened in 	 "Glycosylation of the influenza virus HA mediates
	Europe" [Invited Speaker]	severity of secondary bacterial pneumonia" [Invited
	Dr Pasi Penttinen (European Centre for Disease	Speaker]
	Prevention and Control) (Sweden)	Dr Jon McCullers (University of Tennessee Health Science
		Center & Le Bonheur Children's Hospital) (US)
	 "Antimicrobial Resistance: Impact on Respiratory 	"Synergy Between Influenza Virus and
	Tract Infections"	Pneumococcus" [Invited Speaker]
	Dr Hsu Li Yang (Mount Elizabeth Novena Hospital) (Singapore)	Prof Dennis Metzger (Albany Medical College) (US)
	"One Health Preparedness and Interventions for	"The Impact Of HIV On The Burden And Severity
	Pandemic Influenza"	Of Influenza Illness In Malawian Adults: The BASH-
	Dr Ruben Donis (US Centers for Disease Control and	FLU Study" [ASN133]
	Prevention) (US)	Antonia Ho (Malawi-Liverpool-Wellcome Trust Clinical
		Research Programme) (Malawi)
	 "Bat-borne Zoonotic Respiratory Pathogens: How 	 "Household Transmission Of Influenza Virus From
	Much Do We Know?"	HIV-infected And HIV-uninfected Index Cases,
	Prof Wang Linfa (Duke-NUS Medical School)	South Africa, 2013-2014" [ASN166]
	(Singapore)	Akhona Tshangela (National Institute for Communicable
		Diseases) (South Africa)
	"Public Health Emergencies: Security & Ethics"	 "Irregular Seasonality of Influenza-like Illness in a
	Dr Voo Teck Chuan (National University of Singapore)	Tropical Urban Setting" [ASN212]
	(Singapore)	Maciej Boni (Oxford University Clinical Research Unit)
		(Viet Nam)
3:45 PM	Teabreak	
4:00 PM	Plenary VIII "How do we detect and respond to the next emerging respiratory infection?"	
4.20 DN4	Prof David Heymann (Public Health England) (UK)	
4:30 PM	Awards Presentation & Closing Remarks	
4:45 PM	End of Day 3	