	2022 ISV ANNUAL CONGRESS ORAL PROGRAM				
22.22.42.22	SUNDAY 18 SEPTEMBER 2022				
08:00-10:00					
08:00-10:00	WELCOME COFFEE Sponsored by EuBiologics Co.				
10:00-10:10	ISV CONGRESS OPENING SESSION: CO-CHAIR REMARKS (5 min) Joon Haeng Rhee, Chonnam National University;				
	Manon Cox, NextWaveBio; Gary Kobinger, University of Texas Medical Branch (UTMB)				
	WELCOME BY ISV PRESIDENT (3 min) - Denise Doolan, James Cook University				
10:10-11:55	KEYNOTE SESSION: HOT TOPICS IN 21st CENTURY VACCINES				
10.10-11.55	SESSION CHAIRS: Manon Cox, NextWaveBio and Joon Haeng Rhee, Chonnam National University				
10:10-10:45					
	Systems Vaccinology				
10:45-11:20	KEYNOTE SPEAKER - Ann Ginsberg, The Bill & Melinda Gates Foundation				
	End-to-End TB Vaccine Development to End TB				
11:20-11:55	KEYNOTE SPEAKER - Hiroshi Kiyono, University of Tokyo				
	Mucosal Vaccine: Bringing the Old Wisdom to Reality				
12:00-13:30	LUNCH Sponsored by VGXI, Inc.				
13:30-15:20	PLENARY SESSION 1: COVID-19 VACCINES PART 1				
42 20 42 FF	SESSION CHAIRS: Jeffrey Ulmer, TechImmune LLC and Margaret Liu, ProTherImmune				
13:30-13:55	Vectored Viral Vaccine Candidates for SARS-CoV-2 Amy Espeseth, Merck				
13:55-14:20	Differentiation of Memory T Cells Elicited by COVID-19 Vaccines				
10.00 11.20	Eui-Cheol Shin, Korea Advanced Institute of Science and Technology (KAIST)				
14:20-14:35	What Vaccine-Induced Immune Responses Control Breakthrough COVID-19?				
	Stephen Kent, <i>University of Melbourne</i>				
14:35-14:50	Next Generation Multivalent COVID-19 DNA Vaccine				
	Makutiro Masavuli, The University of Adelaide				
14:50-15:05	Characterization of Humoral Immune Responses to an Intranasal SARS-CoV-2 Protein Subunit				
	Vaccine Candidate in Mice Mariam Maltseva, <i>University of Ottawa</i>				
15:05-15:20	Robust Immunogenicity and Full Efficacy Against SARS-CoV-2 in Mice, Hamsters and Rhesus				
15.05 15.20	macaques of a COVID-19 Vaccine Candidate Based on an MVA Vector Expressing the SARS-CoV-2				
	S Protein				
	Juan García-Arriaza, Centro Nacional de Biotecnología				
Pre-	Elicitation of Long-Lived Plasma Cells Following SARS-CoV-2 Spike Vaccination				
Recorded	Madhu Prabhakaran, Vaccine Research Center, NIAID, National Institutes of Health				
15:30-16:00	COFFEE BREAK Sponsored by Moderna				
16:00-17:50	PLENARY SESSION 2: VACCINE DESIGN AND ADJUVANT SESSION CHAIRS, Possid Wainer, The Winter Institute and Seniou Phaset, CCV				
16:00-16:25	SESSION CHAIRS: David Weiner, <i>The Wistar Institute</i> and Sanjay Phogat, <i>GSK</i>				
10:00-10:25	Particulate Adjuvant Strategies for Cancer Vaccines  Ed Lavelle, Trinity College Dublin				
16:25-16:50	Vaccine Adjuvant and Production Technologies and Biomanufacturing Resilience in Canada				
10.25 10.50	Lakshmi Krishnan, <i>National Research Council Canada</i>				
16:50-17:05	A Novel Draining Lymph Node Targeting CpG Oligonucleotide, S-540956 is a Potent Adjuvant				
	When Used with HSV-2 Glycoprotein D and Controls Recurrent Genital Herpes				
45.05.45.20	Sita Awasthi, University of Pennsylvania				
17:05-17:20	<b>Deimmunized Flagellin as a Mucosal Vaccine Adjuvant</b> Shee Eun Lee, <i>Chonnam National University</i>				
17:20-17:35	The Novel Adjuvant, ADA-1, Restores Age-Associated Defects in the Adaptive Immune Response				
17.20-17.33	to Clostridioides Difficile Infection and Vaccination in an Aging Mouse Model				
	Michele Kutzler, Drexel University				
17:35-17:50	In Vivo Delivery of Engineered Synthetic DNA-Encoded SARS-CoV-2 Monoclonal Antibodies and				
	Preventative Efficacy in Non-Human Primates				
18:00-19:00	Ami Patel, The Wistar Institute  POSTER SESSION # 1				
18:00-19:00					
10:00-20:00	WELCOME RECEPTION Sponsored by EpiVax				

	MONDAY 19 SEPTE	MBER 2022	
08:00-08:30		onsored by Daicel Corporation - Actranza lab	
08:30-09:55	PLENARY SESSION 3: VACCINES ON THE HO SESSION CHAIRS: Shan Lu, UMASS Medical S	ORIZON Sponsored by Sanofi Pasteur School and Denise Doolan, James Cook University	
08:30-09:00	Inaugural ISV Dr. Stanley A. Plotkin Keynote Lecture The Evolution of Vaccinology and the Utility of Human Challenges (Pre-Recorded) Stanley Plotkin, Vaxxconsult Recipient of the ISV Lifetime Achievement Award		
09:00-09:25	mRNA Vaccines (R)Evolution – Myths and Realities  Jean-Francois Toussaint, Sanofi Pasteur, France		
09:25-09:40	Interim Analysis of a Phase 1/2 Randomized Clinical Trial on the Safety, Reactogenicity, and Immunogenicity of a Quadrivalent, mRNA-Based Seasonal Influenza Vaccine (mRNA-1010) in Healthy Adults Raffael Nachbagauer, <i>Moderna, Inc.</i>		
09:40 -09:55	Development of a Flagellin-Adjuvanted Anti-Tauopathy Vaccination Strategy Targeting Pathologic Conformation Joon Haeng Rhee, Chonnam National University		
10:00-10:30	COFFEE BREAK	Sponsored by SK Bioscience	
10:30-12:20	CONCURRENT SESSION 1 COVID-19 VACCINES PART 2 SESSION CHAIRS: Neil Almond, <i>NIBSC</i> Eui-Cheol Shin, <i>KAIST</i>	CONCURRENT SESSION 2 GLOBAL HEALTH AND VACCINES SESSION CHAIRS: Stephen Kent, University of Melbourne Ann Ginsberg, Bill & Melinda Gates Foundation	
10:30 -10:55	SARS-CoV-2 Biology and Countermeasure Development Pei-Yong Shi, University of Texas Medical Branch (UTMB)	The mRNA Hub Technology Transfer Programme: Creating a Sustainable Platform for Vaccine Innovation in LMICs Petro Terblanche, Afrigen Biologics & Vaccines	
10:55-11:20	Development of a SARS-CoV-2 Vaccine Candidate Using the Papaya Mosaic Virus (PapMV) Nanoparticle Vaccine Platform Denis Leclerc, Université Laval	Strategies for Industrial Production of mRNA Vaccines in South America Analia Acebal, Sinergium Biotech	
11:20-11:35	ACM Polymersome-Based Intranasal Beta Spike Formulation as a Second Generation Covid-19 Vaccine Jiang Hang Lam, ACM Biolabs Pte Ltd	Progress of Clinical Development of a Live- Attenuated Single Shot Chikungunya Vaccine Candidate Susanne Eder-Lingelbach, Valneva Austria	
11:35-11:50	An Exosome-Based Pan Beta Coronavirus Vaccine Zhilin Chen, Codiak BioSciences	T Cell Vaccines Against Zika Virus Branka Grubor-Bauk, University of Adelaide	
11:50-12:05	A Protein/Peptide Vaccine UB-612 Elicits Broadly Neutralizing Antibodies Against Multiple Variants and Protects Mice and Non-Human Primates Against SARS-CoV-2 Shixia Wang, Vaxxinity Inc.	Immunogenicity and Efficacy in Rodents and Non-Human Primates of a Pair of Two Live-Attenuated Flavivirus-Vectored Vaccine Candidates with Dual Rabies/Yellow Fever, or Rabies/Japanese Encephalitis Activity Lorena Sanchez Felipe, KU Leuven	
12:05-12:20	Intranasal Administration of a Live- Attenuated Recombinant Newcastle Disease Virus Expressing the SARS-CoV-2 Spike Protein Induces High Neutralizing Antibody Levels and Protects from Experimental SARS-CoV-2 Infection in Hamsters Nora Gerhards, Wageningen Bioveterinary Research	Toward the Development of a Next-Generation Pre-Emptive SARS-CoV-2 Vaccine Jeffrey Ulmer, TechImmune LLC	
12:30-13:30	LUNCH	Sponsored by NRC Canada & Merck	
13:30-14:00	MONKEYPOX ROUNDTABLE DISCUSSION (ROOM 308A) Gary Kobinger, UTMB; Inger Damon, CDC-Retired; David Weiner, The Wistar Institute		
14:00-15:00	ISV ANNUAL GENERAL MEETING (OPEN TO	ALL CONGRESS ATTENDEES-ROOM 308A)	

14:30-15:30	POSTER SESSION # 2	
15:00-15:30	COFFEE BREAK Sponsored by BioNTech	
15:30-17:35	PLENARY SESSION 4: VACCINE DEVELOPMENT & BIOMANUFACTURING LANDSCAPE IN CANADA SESSION CHAIRS: Lakshmi Krishnan, NRC and Gary Kobinger, UTMB	
15:30-15:35	Session Introduction Lakshmi Krishnan, National Research Council Canada	
15:35-16:00	<b>Development of a Plant-Based Virus-Like Particle Vaccine Against COVID-19</b> Marc-André D'Aoust, <i>Medicago</i>	
16:00-16:25	Canadian COVID-19 Vaccine Candidates and Programs – Experience of the Clinical Trials Network of the Canadian Immunization Research Network Joanne Langley, Dalhousie University	
16:25-16:50	Elephants Can Dance: Health Canada's Regulatory Work For COVID-19 Vaccines Co Pham, Health Canada	
16:50-17:05	A DNA Vaccine Against Hyalomma Tick Infestation Protects Sheep Against Multiple Human Tick-Borne Viruses Hugues Fausther-Bovendo, Global Urgent and Advanced Research and Development (GUARD)	
17:05-17:20	<b>Breast Cancer Immunopeptidomes Reveal a Large Number of Targetable Tumor Antigens</b> Eralda Kina, <i>University of Montreal</i>	
17:20-17:35	Insights from Industry Collaboration in COVID-19 Vaccine Pharmacovigilance- One Manufacturer's Experience"  Jamie Wilkins and Susan Mather, <i>Pfizer, Inc.</i>	
18:30-22:00	GALA DINNER Sponsored by AstraZeneca *TICKETS REQUIRED*	

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TUESDAY 20 SEPTEMBER 2022				
08:00-09:00	MORNING COFFEE	Sponsored by Pfizer		
08:15-09:00				
	MODERATOR: Manon Cox, NextWaveBio			
	PANELISTS: Dan Adams, NextWaveBio; Margaret Liu, ProTherImmune;			
	Peter Leonardi, Omnicyte			
09:00-10:20	PLENARY SESSION 5: VACCINES AND ANIMALS			
	SESSION CHAIRS: Connie Schmaljohn, NIAID and Ed Lavelle, Trinity College			
09:00-09:25	<b>Vaccination for the Prevention and Control of Emerging Infectious Diseases in Animals</b> Mahesh Kumar, <i>Zoetis</i>			
Pre- Recorded	100 Days Mission for Vaccines to the World: Disruptive Innovation from Molecule to Ethics Ken Ishii, The University of Tokyo			
09:50-10:05	Next Generation Monkeypox Vaccine Based on Development of an Efficacious T Cell-Directed Smallpox Vaccine Using a Genomes-to-Vaccine Strategy  Anne De Groot, EpiVax, Inc.			
10:05-10:20	mRNA Vaccines Against Andes Virus: Comparison of Modified Versus Non-Modified Nucleoside- Based Platforms			
10.20 11.00	Alexander Bukreyev, University of Texas Medic			
10:30-11:00		Sponsored by CanSino Bio CONCURRENT SESSION 4		
11:00-12:25	CONCURRENT SESSION 3 HIV VACCINES	CONCURRENT SESSION 4  MANUFACTURING AND EVALUATION		
	SESSION CHAIRS:	SESSION CHAIRS:		
	Lars Frelin, <i>Karolinska Institutet</i>	Amy Espeseth, <i>Merck</i>		
	Petro Terblanche, Afrigen Biologics &	Xavier Saelens, VIB-UGent		
	Vaccines			
11:00-11:25	•	Advancing Vectored Vaccine Design and		
	Shan Lu, UMASS Chan Medical School	Manufacturing Platforms for Pandemic Preparedness		
		Amine Kamen, McGill University		
44.05.44.40	Elizabeth of Constant and the last			
11:25-11:40	Elicitation of Cross-Neutralizing Antibodies to the HIV-1 Envelope	Anti-NA and -HA Serum Confers Limited Inter- Lineage Cross Protection Against Recent		
	Glycoproptein	Influenza B Vaccine Strains		
	Richard Wyatt, The Scripps Research Institute	Xavier Saelens, VIB-UGent Center for Medical		
		Biotechnology		
11:40-11:55	Assessing the Frequency of Naive B Cells	Establishing Serological Correlates of Vaccine		
	Potentially Capable of Producing Broad	Protection against Emerging Diseases Using WHO		
	Neutralizing Antibodies for HIV	International Standards as Calibrants		
	Flavio Matassoli, VRC, NIAID, National	Neil Almond - Medicines and Healthcare Products		
	Institutes of Health	Regulatory Agency (NIBSC)		
11:55-12:10	Novel Subunit Vaccines Engineered on an	Vaccine-Induced Antibodies to Four Distinct		
	Immune-Activating Platform Technology, First SARS-CoV-2 and Next HIV	Epitopes on gC2 Correlate with Protection from Lethal HSV-2 Challenge in Mice		
	Peter Leonardi, <i>Omnicyte</i>	Lauren Hook, <i>University of Pennsylvania Perelman</i>		
	reter Beofiarat, ommeyte	School of Medicine		
12:10-12:25	Pre-Recorded	Highly protective immunity and reduced viral		
	First-in-Human, Germline Targeting	shedding after intranasal vaccination with an		
	HIV Vaccine B Cell Receptor Analysis	OMV based SARS-CoV-2 vaccine		
	Adapting 10X Technology Weiwei Wu, NIAID, National Institutes	Dinja Oosterhoff, <i>Intravacc</i>		
	of Health			
12:30-14:00		Sponsored by Medicago		
14:00-14:20		- F 57 64 By 1 25 41 54 By		
14:20-16:00				

14:20-14:45	ISV Paper of the Year Presentation Neutralizing Antibody Vaccine for Pandemic and Pre-Emergent Coronaviruses Kevin Saunders, Duke University		
14:45-15:10	Structure-Based Design and Epitope Focusing in the Development of Vaccines Against Sequence-Diverse Pathogens like HIV-1 Peter Kwong, Vaccine Research Center, NIAID, National Institutes of Health		
15:10-15:35	Medical Imaging as a Tool for Assessing Pathogenesis in Animals Connie Schmaljohn, NIAID, National Institutes of Health		
15:35-16:00	Contribution of T Cell Responses to Vaccine Immunogenicity Jennifer Juno, University of Melbourne		
16:00-16:15	CLOSING SESSION & INTRODUCTION TO 2023 CONGRESS  Denise Doolan, ISV President, James Cook University		

# **End of In-Person Program**

## 2022 ISV ANNUAL CONGRESS VIRTUAL PROGRAM

ALL PRE-RECORDINGS AVAILABLE ON THE VIRTUAL PLATFORM
THE ROUDTABLE IN-PERSON DISCUSSION TO BE RELEASED ON VIRTUAL PLATFORM ON SEPTEMBER 19

#### Virtual Session 1: Monkeypox Session Chair: Gary Kobinger, *UTMB*

Monkeypox Virus: Biology, Animal Models, Vaccines and Therapeutics

Bernie Moss, National Institute of Allergy and Infectious Diseases, NIH

Monkeypox - Unprecedented Reemergence

Inger Damon, Centers for Disease Control and Prevention

Global Response to the Monkeypox Virus Emergence of 2022

Rosamund Lewis, World Health Organization

#### MONKEYPOX IN-PERSON ROUND TABLE DISCUSSION

Gary Kobinger, UTMB, Inger Damon, CDC (retired), David Weiner, The Wistar Institute

### Virtual Session 2: Vaccine Update from Asia

Session Chairs: Shan Lu, *UMMS Chan Medical School*; Joon Haeng Rhee, *Chonnam National University*; Ken Ishii, *University of Tokyo* 

Inhaled Covid-19 Vaccine: Robust Humoral, Cellular, and Mucosal Immunologic Response with Superior Safety Profile

Tao Zhu, CanSino Biologics

**Development of COVID-19 Subunit Vaccine, Based on Novel Nanoparticle Adjuvant Platform** SuHi Jeon, *EuBiologics* 

**Evolution of SARS-CoV-2** 

Kei Sato, University of Tokyo

### Virtual Session 3: Individual Invited Speakers on Diverse Topics

**Emerging Zoonotic Viruses: From Bat to Shrew** 

Linfa Wang, Duke-National University of Singapore Medical School Singapore

Immune Correlates Results for the Uhambo and Imbokodo HIV Vaccine Efficacy Trials

Peter Gilbert, Fred Hutchinson Cancer Research Center