



Program



# **Vaccines Research & Development**<sup>™</sup>

Conference on

🖮 November 6-8, 2023

Hilton Baltimore BWI Airport Hotel, **Baltimore**, MD

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## 06-Nov-23

#### NOVEMBER 6-8, 2023

Meeting	g Room:	Concourse	C & D
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07.30	Registrations		@ Foyer
	Keynote	Session	Chair: Andrew Lees
08:30	Arturo Casadevall, M.D. Bloomberg Distinguished Professor, Alfred & Jill Sommer Professor and Chair, Johns Hopkins School of Medicine	Antibody-mediated Catalysis Ag Agents – from <i>Cryptococcus neo</i> CoV-2	-
09:00	<b>Tonya Villafana</b> , Ph.D. Vice President, Global Franchise Head, Infection, AstraZeneca	Innovations in Infectious Diseas Prevention in Creating Sustaina Healthcare Systems	
09:30	<b>Rituparna Das</b> , M.D., Ph.D. Therapeutic Area Head, Respiratory Vaccines, Moderna	mRNA Vaccines: Using SARS-C Concept to Expand Vaccine De Viruses	
10:00	Peter Marks, M.D., Ph.D. Director, Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA)	Advancing Vaccine Developmer Public Health	nt in Support of
	10.45 - I	Break	@ Foyer
11:05	<b>Diane Griffin</b> , M.D., Ph.D. Vice President, National Academy of Sciences, University Distinguished Service Professor, Johns Hopkins Bloomberg School of Public Health	Understanding Measles Vaccine Efficacy	e Attenuation and
11:35	<b>Ofer Levy</b> , M.D., Ph.D. Director, Precision Vaccines Program, Boston Children's Hospital	Precision Vaccines: Bringing Pre Vaccinology	ecision Medicine to
12:05	Amy Finan Chief Executive Officer, Sabin Vaccine Institute	A Non-profit Perspective on Vac	ccine R & D
12:35	<b>Stephen L. Hoffman</b> , Ph.D. Chief Executive and Scientific Officer, Sanaria, Inc.	Preventing the Devastation of M A First Indication for Sanaria® Vaccine	
	<b>13.05 -</b> 1	Lunch	@ Flight Deck
14:00	Karin Bok, M.S., Ph.D. Acting Deputy Director, Director of Pandemic Preparedness and Emergency Response, Vaccine Research Center, NIAID, NIH	NIAID Pandemic Preparedness Response: Looking at the Past t	0,
	Technology & Deliv	very Platforms - I	Chair: Yang Xu
14:30	<b>Mark Emalfarb</b> , Ph.D. Chief Executive Officer, Dyadic International, Inc.	Next-gen Vaccines without the Pandemic Effectiveness C1, Pro Yield, Low-cost Global Solution	tective, Rapid, High
14:50	Minoru S. H. Ko, M.D., Ph.D. Chief Scientific Officer, Elixirgen Therapeutics, Inc.	Controllable Self-replicating RN for T Cell-inducing Vaccines	A: A New Platform
15:10	Richard Anthony, Ph.D. Founder and President, Vacunax, Inc.	The Potential of Novel Host Rest Vaccines (HR-LAV) Technology Alphaviruses and Flaviviruses Co	for Mosquito-borne

Day-1

15:30	<b>Paolo Lusso</b> , M.D., Ph.D. Chief, Section of Viral Pathogenesis, Laboratory of Immunoregulation, NIAID, NIH	A VLP-forming mRNA Vac	ccine for HIV-1
15:50	Andrew Lees, Ph.D. CEO/CSO, Fina Biosolutions	Production of Low-cost Ca Antigens, and Biotherapeu	,
	16.10 -	Break	@ Foyer
	Respiratory	- I (COVID)	Chair: Denise L. Faustman
16:30	<b>Yongjun Sui</b> , Ph.D. Associate Scientist, Vaccine Branch, Center for Cancer Research, NCI, NIH	Head-to-head Comparison Vaccines on SARS-CoV-2 An Adjuvanted Subunit Mu mRNA Systemic Vaccine in	Onward Transmission: ucosal Vaccine Versus a
16:50	<b>Narayan Nair</b> , M.D. Director, Division of Pharmacovigilance, Office of Biostatistics and Pharmacovigilance, CBER, FDA	Safety Monitoring of the C	COVID-19 Vaccines
17:10	<b>Pi-Hui Liang</b> , Ph.D. Professor at the School of Pharmacy, National Taiwan University, Taiwan	Development of Saponin-b Coronavirus Vaccines	pased Adjuvant for
17:30	<b>Chijioke Bennett</b> , M.D. Senior Director, Clinical Development Novavax	Phase 3 Comparison of Ar Protein Subunit COVID-19	-
17:50	<b>Clarisa Beatriz Palatnik-de Sousa</b> , Ph.D. Federal University of Rio de Janeiro, Brazil	A Novel Vaccine Based on CD8+ T Cell Conserved E Alpha to Omicron	
	18.10 - Posters	, Networking and Drinks	@ Foyer

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	Post	ers @ Foyer
VRD-P1	Jorge Armero Gimenez, Ph.D. Technology Center LenioBio GmbH, Germany	Rapid Screening and Scaled Manufacture of Immunogenic Virus-like Particles in ALiCE®, a Tobacco BY-2 Cell-free Protein Synthesis System
VRD-P2	Arthur Declercq VIB-UGent Center for Medical Biotechnology, VIB, Belgium	MS <sup>2</sup> Rescore Enables Immunopeptidomics Open Modification Eearches
VRD-P3	<b>Clarisa Beatriz Palatnik-de Sousa</b> , Ph.D. Federal University of Rio de Janeiro, Brazil	Novel Vaccines Against Human Visceral Leishmaniasis Based on Predicted T Cell Epitopes of the <i>Leishmania (L.) donovani</i> Nucleoside Hydrolase (NH36)
VRD-P4	<b>Mark Emalfarb</b> , Ph.D. Chief Executive Officer, Dyadic International, Inc.	C1 Gene Expression Platform: Rapid, High Yield and Lower Cost Way to Develop & Manufacture Biologics
VRD-P5	Victor Bronshtein, Ph.D. Founder and CSO, Universal Stabilization Technologies, Inc.	Thermostable Potent Radiation Inactivated Vaccines

### 07-Nov-23



**Respiratory - II (RSV, Influenza)** 

#### Meeting Room: Concourse C & D

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08:00	<b>Mark Boaz</b> , Ph.D. Vice President, Group Lead for Vaccine Development Management, Vaccines R&D, Pfizer
08:20	Sonia Stoszek, Ph.D.

- Executive Director, Program Leader, Infectious Disease, RSV Older Adult Vaccine, Moderna
- 08:40 Martin Moore, Ph.D. CSO, Meissa Vaccines, Inc.
- 09:00 Trudy G. Morrison, Ph.D. Professor, UMass Chan Medical School
- 09:20 Changkeun "David" Lee, Ph.D. Director, Head of Protein Biochemistry, CSL Seqirus
- 09:40 Chime Nnadi, M.D., Ph.D. Associate Vice President, Vaccine Development and Lifecycle Management, Sanofi

Development of a Maternal and Older Adult RSV Vaccine

Clinical Development of mRNA-1345, Moderna's Investigational mRNA Vaccine Against Respiratory Syncytial Virus

Safety and Immunogenicity of a Rationally Designed Live Attenuated RSV Vaccine in Seronegative Infants

The Respiratory Syncytial Virus G Protein Enhances the Immune Responses to the RSV F Protein in an Enveloped Virus-like Particle Vaccine Candidate

RSV Vaccine Development by Platform Technologies

A Lifespan Approach to RSV Prevention

#### 10.00 - Discussion

	10.10 -	Break	@ Foyer
10:30	<b>Steffen Mueller</b> , Ph.D. Chief Scientific Officer, Codagenix, Inc.	Live Attenuated Influenza Vaccine Intramuscular Route - A Paradigm S	•
10:50	Masaru Kanekiyo, Ph.D. Chief, Molecular Immunoengineering Section, Vaccine Research Center, NIAID, NIH	Influenza Neuraminidase: Re-emerg Vaccine and Antibody Discovery	ging Target for
11:10	<b>Robert Daniels</b> , Ph.D. Principal Investigator and CMC Reviewer, Division of Viral Products, CBER, FDA	Benefits, Barriers, and Approaches Influenza Vaccines that Elicit NA A	0
11:30	Xinyuan Chen, Ph.D. Associate Professor, Biomedical and Pharmaceutical Sciences, College of Pharmacy, University of Rhode Island	High-density Flagellin-displayed Vi for Universal Influenza Vaccine Dev	
11:50	<b>Masfique Mehedi</b> , Ph.D. Assistant Professor, Dept. of Biomedical Sciences, School of Medicine & Health Sciences, University of North Dakota	The Difference in Cell Tropism Rev CoV-2 & RSV Cause Different Patho	
12:10	Weizhong Li, Ph.D. Assistant Research Professor, Department of Veterinary Medicine, University of Maryland	FcRn-mediated Mucosal Vaccinatic Respiratory Infections	ns Against
12:30	<b>Sanda Ravlic</b> , Ph.D. Centre for Research and Knowledge Transfer in Biotechnology, University of Zagreb, Croatia	What can Neutralizing Antibodies 7 Quality of Immunity in COVID-19 ( and Vaccinees?	

	Technology & Delive	ery Platforms - II	Chair: Richard Anthony
13:30	<b>Stephen Angeloni</b> , Ph.D. Sr. Field Application Scientist, Luminex Corporation	Custom Multiplex Assays Development Using xMA	
13:50	<b>Venigalla B. Rao</b> , Ph.D. Director, Bacteriophage Medical Research Center, Professor, The Catholic University of America	Bacteriophage T4 as a Pro Vaccine Design Platform	otein-based, Mucosal
14:10	<b>Susan R. Trammell</b> , Ph.D. Professor, University of North Carolina at Charlotte	Development of Light-ass Thermally Stabilize Biolog	sisted Drying Technology to gics
14:30	<b>Sylvain Baize</b> , Ph.D. Virales Emergentes, Institut Pasteur, France	MOPEVAC, a Vaccine Platform Against Viral Hemorrhagic Fevers Induced by Old and New-w Arenaviruses	
14:50	Justin D. Radolf, Ph.D. Professor of Medicine and Pediatrics, UConn Health; Director of Research, UConn Health Department of Medicine; Senior Scientific Advisor, Connecticut Children's and Connecticut Children's Research Institute	Towards mRNA Vaccines Extracellular Loops of <i>Tre</i> Membrane Proteins	
15:10	<b>M. Amin Khan</b> , Ph.D. Chief Science Advisor, Afrigen Biologics and Vaccines, South Africa	A Report from the South A Program: Status and Prog an End-to-end mRNA Vac Manufacturing Platform A	ress on the Creation of
15:30	<b>Yang Xu</b> , Ph.D. Principal Scientist, NanoPharma Group Lead, Luna Labs	Short Carbon Nanotube-b Vaccine	based Delivery for HIV-1
	15:50 - H	Break	@ Foyer
	Immune Chara	acterization	Chair: Daniel J. J. Carr
<u>16:10</u>	<b>Denise L. Faustman</b> , M.D., Ph.D. Director of Immunobiology, Massachusetts General Hospital, Associate Professor of Medicine, Harvard Medical School	Randomized Double Blind III Testing of the BCG Vac Platform Infectious Disea United States	ccine for COVID-19 and
<u>16:30</u>	<b>Darrell R. Galloway</b> , Ph.D. Research Professor, University of Utah	Vaccination Strategies to Enhance the Magnitud the Germinal Center B Cell and T Follicular Help Cell Responses to Drive Long-lasting Antibody T and Immunological Memory	
16:50	<b>Aaron Esser-Kahn</b> , Ph.D. Professor, Pritzker School of Molecular Engineering, William Eckhardt Research Center, The University of Chicago	The Challenge of Making Every Vaccine More	
17:10	<b>W. John Martin</b> , M.D., Ph.D. Medical Director, Institute of Progressive Medicine	The Alternative Cellular Energy (ACE) Pathway i Comparison to the Immune System in the Defens Against Infectious Diseases	
17:30	<b>Yoshihiro Watanabe</b> , Ph.D. Professor & Division Director, Innovative Clinical Research Center, Kanazawa University, Japan	Identification of Neutraliz CoV-2 S Antigen and The	0 1 1
17:50	Matthew Ollerton, Ph.D. Postdoctoral Research Associate, University of Arizona	Humanized DRAGA Mice Antibodies Despite Abnor Organization: Implication	0 1
18:10	Jorge Armero Gimenez, Ph.D.	Rapid Screening and Scal	ed Manufacture of

Technology Center LenioBio GmbH, Germany Rapid Screening and Scaled Manufacture of Immunogenic Virus-like Particles in ALiCE®, a Tobacco BY-2 Cell-free Protein Synthesis System

## 8-Nov-23

## Day-3

New and Emerging

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Meeting Room: Concourse C & D

	New and E	merging	Chair: Karen Anderson
08:00	<b>M. Javad Aman</b> , M.D. President and CSO, AbVacc, Inc.	Targeting <i>Staphylococcus</i> Vaccination and Immuno	
08:20	<b>Jyothi Rengarajan</b> , Ph.D. Professor of Medicine, Emory University School of Medicine	Challenges in Tuberculos	is Vaccine Development
08:40	<b>Marco Pravetoni</b> , Ph.D. Rick L. Seaver Endowed Professor in Brain Health, University of Washington School of Medicine	Vaccines and Monoclona Prevent Opioid Use Disor	
09:00	Hong Xin, M.D., Ph.D. Associate Professor, Microbiology and Immunology, Louisiana State University Health Sciences Center	Vaccines and Monoclona Invasive Fungal Infection	
<u>09:20</u>	<b>Courtney L. Finch</b> , Ph.D. Director of Pre-Clinical, Research & Development, Sabin Vaccine Institute	Dose Ranging and Rapid ChAd3-vectored Marburg	
09:40	<b>Nathan Krump</b> , Ph.D. Project Leader and Research Scientist, Integral Molecular	Assays Using Non-replica Combat Influenza and Er	
10:00	<b>Sreenivas Gannavaram</b> , Ph.D. Biologist, Division of Emerging and Transfusion Transmitted Diseases, CBER, FDA	Metabolomic Immune Re Vaccines	egulation in Parasitic
	10.20 - 1	Break	@ Foyer

	N	/iral	Chair: Courtney L. Finch
10:40	Daniel J. J. Carr, Ph.D. Professor, The University of Oklahoma Health Sciences Center	Live Attenuated Proph HSV-1 Infection	ylactic Vaccine Against Ocular
11:00	<b>Uday Saxena</b> , Ph.D. Co-Founder, Reagene Innovations Pvt. Ltd.	of Anti-SARS-CoV-2 Ig for Treatment of Viral	Digestive Enzyme Stability gY Antibodies: Implications Transmission Through ar, Nasal and Skin Tissues
11:20	Heather Friberg, Ph.D. Chief, Department of Virus-Host Interactions, Viral Diseases Branch, Walter Reed Army Institute of Research	0	nfection Model (DHIM): A g Clinical Development of untermeasures

#### **Novel Approaches for Vaccine Development**

**Chair: Yoshihiro Watanabe** 

11:40 Marie-Claire Gauduin, Ph.D. Professor, Disease Intervention and Prevention, Texas Biomedical Research Institute

#### 12:00 Karen Anderson, Ph.D. Professor and Associate Dean, Biodesign Institute, Arizona State University

Durable HIV Vaccine Targeting Mucosal Epithelium

T Cell Epitope Prediction: Broadening HLA Diversity for Vaccine Design

<u>12:20</u>	<b>Cara Fiore</b> , Ph.D. Senior Regulator Reviewer, Office of Vaccines Research and Review, Center for Biologics Evaluation and Research, US Food and Drug Administration	Inclusion of Maternal Health Data Package Inserts: Regulatory Consi	
<u>12:40</u>	<b>Ralf Gabriels</b> , Ph.D. VIB-UGent Center for Medical Biotechnology and Dept of Biomolecular Medicine, Ghent University, Belgium	Machine Learning-powered Immu Drives Novel Antibacterial and An Vaccines	
	12:50 - Lunch	a & Departures	@ Flight Deck
	13.00 - V	lirtual	
	15.00		
13:00	Nicole Skinner, M.D., Ph.D. Principal Investigator, Center for Vaccines and Immunity, Nationwide Children's Hospital	Defining Common Features of Bro Antibodies in Hepatitis C Virus In	
13:20	<b>S. Indu Rupassara</b> , Ph.D., MBA Co-Founder/President/CEO, FruitVaccine, Inc.	The Use of Tomatine, Inherent to Natural Adjuvant in FruitVax Prod	
13:40	<b>Farshad Guirakhoo</b> , Ph.D. CSO, Expres2ion Biotechnology	Preclinical Proof of Concept for a Vaccine Candidate for Treatment Cancers	
14:00	<b>Reza Nejat</b> , M.D. Anesthesiology and Critical Care Dept., Laleh Hospital, Iran	A Homeostatic Approach to COVI Physiological Boundaries of RAS	D-19; Preserving
<u>14:20</u>	Helen M. Chun and Kyle Milligan Medical Officer, Division of Global HIV/TB, Global Health Center, CDC	A Systematic Review of COVID-19 Responses in People with HIV	9 Vaccine Antibody
<u>14:40</u>	Xingmin Sun, Ph.D. Associate Professor, Dept. of Molecular Medicine, University of South Florida	Mucosal Vaccine Strategies Agains <i>difficile</i> Infection	st <i>Clostridioides</i>
<u>15:00</u>	<b>Liang Huang</b> , Ph.D. Founder & CEO, Coderna.ai, Associate Professor, Oregon State University	AI-designed mRNA Vaccines Subs Stability and Immunogenicity	stantially Improve
15:20	<b>Kin-Hang Kok</b> , Ph.D. Associate Professor, University of Hong Kong, Hong Kong	A Nasal NanoComplex Vaccine Ag Tract Infections	gainst Respiratory
15:40	<b>Joy-Yan Lam</b> Department of Microbiology, University of Hong Kong, Hong Kong	NanoComplex: The Novel Self-adj Protein-RNA Nasal Vaccine	uvanted



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(A non-profit organization)

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