



11th Annual CEIRS Network Meeting

Sunday July 22nd, 2018 – Wednesday July 25th, 2018

The New York Academy of Medicine

1216 Fifth Avenue (at 103rd Street)

New York, NY 10029

Hosted By:

Center for Research on Influenza Pathogenesis (CRIP)

Sponsored By:

NIH/NIAID CEIRS Program



WELCOME TO NEW YORK

Dear Colleagues,

On behalf of the Influenza Program at the National Institutes of Health/National Institute of Allergy and Infectious Diseases/Division of Microbiology and Infectious Diseases (NIH/NIAID/DMID), and the Center for Research on Influenza Pathogenesis (CRIP), we welcome you to the 11th Annual Meeting of the Centers of Excellence for Influenza Research and Surveillance (CEIRS) in the “Big Apple,” NYC.

This meeting brings together representatives of the CEIRS network, including the foremost research scientists, public health experts, government representatives, wildlife biologists and veterinarians from all over the world to exchange and discuss critical scientific information on influenza virus infection in animals and in humans. The meeting will focus on progress made on the basic biology of influenza viruses, emerging scientific questions and future directions of the multiyear collaborative CEIRS contracts at: Icahn School of Medicine at Mount Sinai, St. Jude Children's Research Hospital, University of Rochester, Johns Hopkins University, and Emory University.

We anticipate an exciting meeting covering broad areas of the influenza field, such as molecular virology, pathogenesis, immunology, transmission, and human and animal surveillance. There will be nearly 60 speakers, dozens of posters, and plenty of opportunities to form and/or strengthen collaborations, develop interactions and exchange ideas and information, in both formal sessions and informal get-togethers. Our networking dinner at Grand Central Oyster bar in Grand Central Terminal will provide a glimpse of Old New York while providing the opportunity for you to network with your fellow CEIRS colleagues.

We hope that you will also take this opportunity to explore and enjoy “The City That Never Sleeps.”

Sincerely,

Adolfo García-Sastre, PhD
PI/Director
CRIP

Marciela DeGrace, PhD
Project Officer, CEIRS
NIH/NIAID/DMID

11th Annual CEIRS Network Meeting

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New York Academy of Medicine

1216 5th Ave,
New York, NY 10029

Note: All events will take place at the New York Academy of Medicine except the dinner Tuesday night at the Grand Central Oyster bar

Sunday July 22nd, 2018

9:00 - 6:30 **Arrival and Check-in – Lobby (1st floor)**

Trainee Session – Hosack Hall (1st Floor)

9:30 – 9:45am	Introduction and trainee opportunities in CEIRS	Marciela DeGrace
9:45 – 10:00am	Overview of Grants and Contracts (special focus on trainee grants and CEIRS)	Lauren Sauer and Mary McBride
10:00 – 10:30am	Applying and interviewing with tips for the chalk talk	Mark Tompkins
10:30 – 11:30am	Transitioning from Trainee to Independent Investigator 15 minute talks from: Constantinos Kyriakis Florian Krammer Anice Lowen 15 minute Moderated Q&A with Panel and Audience	Panel Discussion
11:30 - 12:30	Lunch – Library Reading Room (3rd floor)	

Breakout Meetings

12:30 – 6:30 pm Concurrent breakout meetings for CEIRS members . Refreshments available from 2:30-3:00pm in the Presidents Gallery (1st floor)

Meeting Time	Room 558 (5 th floor)	Room 21 (2 nd floor)	Room 440 (4 th floor)	Hosack Hall (1 st floor)
12:30 – 1:30	Immune Effector Team Lead: Ali Ellebedy	Team Ferret Lead: Stacey Schultz-Cherry		Human Surv./ Clinical Breakout Lead: Rich Rothman
1:30 – 2:30			Flu Vaccine Assays Lead: Jared Evans	
2:30 – 3:30	Data Management Lead: Erik Stemmy	NAAction! Lead: Florian Krammer		
3:30 – 4:30		Pandemic Planning Advisory Committee Lead: Mike Osterholm	Cohort Steering Committee Lead: Paul Thomas/ Hana El Salahy	
4:30 – 5:30	Platform Technologies Lead: Dick Compans			
5:30 – 6:30	JHCEIRS Breakout Session (Closed Meeting)	NYICE Breakout Session (Closed Meeting)	SJCEIRS Breakout Session (Closed Meeting)	

6:30 – 8:30 **Optional Welcome Reception - Library Reading Room (3rd floor)**

Monday July 23rd, 2018

7:15 - 5:00	Arrival and Check-In – Lobby (1 st floor)
7:15 - 8:15	Breakfast – Presidents Gallery (1 st floor)
7:15 - 8:15	Poster Session 1 Set-Up – Room 20 (2 nd floor)
8:30 - 4:00	DPCC Tech and Training Bar – Reception room (1st floor) The DPCC will host a hands-on training area during the meeting where anyone can ask questions, troubleshoot issues, or demo the collaborative resources of the DPCC. Drop-in or see us in the front desk area to setup a time.

Meeting Opening - Hosack Hall (1st floor)

8:15 - 8:30	Welcome	Adolfo Garcia-Sastre and Marciela DeGrace
8:30 - 8:45	Update from DMID	Marciela DeGrace
8:45 - 9:00	CRIP Center Update	Adolfo Garcia-Sastre

Session 1: Transmission, Adaptation, and Pathogenesis– Hosack Hall (1st floor)

Session Chairs: Marjolein Poen and Charles Russell

9:00 - 9:20	Net electrostatic charge of avian influenza virus haemagglutinin glycoprotein modulates the pH of fusion	Jazmina Luczo
9:20 - 9:40	Optimization and collection efficiency of different air-samplers to collect infectious aerosolized respiratory viruses from the air	Sander Herfst
9:40 - 10:00	A single amino acid substitution (I38T) in the PA endonuclease domain mediates resistance to next-generation polymerase inhibitors	Jeremy Jones
10:00 - 10:20	Break if Purchased - Refreshments in Presidents Gallery (1st floor)	
10:20 - 10:40	Microbiome disturbance and resilience dynamics of the upper respiratory tract in response to influenza A virus infection in analog hosts	Raveen Rathnasinghe
10:40 - 11:00	The increasing concern of H9N2 viruses and their adaptation to chickens	David Suarez
11:00 - 11:20	Use of human airway organoids to study the tropism and pathogenesis of influenza A virus	Malik Peiris
11:20 - 11:40	Session 1 Summary/Discussion	
11:40 - 1:15	Lunch – Library Reading Room (3rd floor) Networking – Library Reading Room (3rd floor) NEC Lunch – Room 558 (5th floor)	

Panel: Collaboration across USG – working together to conquer Influenza

Panel Moderators: Rebecca Poulson and Gavin Smith

1:15 - 2:00	Panelists: Alison Augustine (NIAID/DAIT) Emily Erbeling (NIAID/DMID) Mia Kim Tortetti (USDA) Ruben Donis (BARDA) Jackie Katz (CDC) Hana Golding (FDA)
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Session 2 Animal Surveillance – Hosack Hall (1st floor)

Session Chairs: Ghazi Kayali and Jefferson Santos

2:00 - 2:15	SJCERS Center Update	Richard Webby
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2:15 - 2:30	Resource Update Session – updates from working groups	Working Group Leaders
2:30 - 2:50	Identification of Avian H3 Viruses With Genes Closely Related to Equine H3 Viruses	Nicolas Bravo Vasquez
2:50 - 3:10	Prevalence and genetic diversity of swine influenza viruses in southern China, 2009-2017	Ziying Jin
3:10 – 3:30	Break if Purchased - Refreshments in Presidents Gallery (1st floor)	
3:30 - 3:50	Interhemispheric gene flow of influenza virus among wild birds in Chile	Pedro Jimenez-Bluhm
3:50 – 4:10	Evolution of Swine Influenza Viruses in the Southeast United States.	Abhijeet Bakre
4:10 – 4:30	Session 2 Summary/Discussion	
4:30 – 4:55	Poster Session: 1 Minute Poster Presentations	

Poster Session 1 – Room 20 (2nd floor)

4:55 – 6:20 Poster Session

Dinner on your own

Tuesday July 24th, 2018

7:15 – 8:00	Arrival and Check-In – Lobby (1 st floor)
7:15 – 8:00	Breakfast – Presidents Gallery (1 st floor)
7:15 – 8:00	Poster Session 2 Set-Up – Room 20 (2 nd floor)
8:00 – 8:10	Housekeeping – Hosack Hall (1 st floor)

Session 2: Animal Surveillance (Continued) – Hosack Hall (1st floor)

Session Chairs: Landon von Steeg and Jacqueline Nolting

8:10 – 8:30	Zoonotic influenza A virus transmissions at agricultural exhibitions continue amid mitigation recommendations	Andrew Bowman
8:30 – 8:50	Understanding the natural and anthropogenic drivers of influenza A virus in gulls across geographic scales	Nichola Hill

Session 3: Pandemic Preparedness – Hosack Hall (1st floor)

Session Chairs: Thomas Fabrizio and Constantinos Kyriakis

8:50 – 9:10	Effectiveness of a whole, inactivated, low pathogenic H7N9 vaccine against an antigenically distinct, highly pathogenic H7N9 virus in a ferret model	Masao Hatta
9:10 – 9:30	Novel microfluidic droplet analytic pipeline for virus evolution and characterization	Jared Evans
9:30 – 9:50	Vaccination of poultry with an H7 inactivated vaccine eliminated human infections with H7N9 virus in China	Hualan Chen
9:50 – 10:10	Session 2 (Continued) and 3 combined Summary/Discussion	
10:10 – 10:30	Break if Purchased - Refreshments in Presidents Gallery (1st floor)	

Session 4: Human Influenza and Host Response – Hosack Hall (1st floor)

Session Chairs: Andy Pekosz and Vijaykrishna Dhanasekaran

10:30 – 10:45	JHCEIRS Update	Richard Rothman
10:45 – 11:05	Regional differences in vaccine uptake affect serological responses to vaccine and circulating strains of H1N1 viruses among patients with confirmed influenza infection	Ashley Fink
11:05 – 11:25	Longitudinal evaluation of anti-neuraminidase (NA) antibodies following repeat vaccination	Emily Martin
11:25 – 11:45	The role of immune history in population-level influenza dynamics	Philip Arevalo
11:45 – 12:00	Measuring the breadth of the IgG and IgA response to natural influenza virus infection in children and adults with an influenza virus protein microarray	Philip Meade
12:00 – 1:15	Lunch – Library Reading Room (3rd floor) Coordinator Lunch – Room 558 (5th floor)	
1:15 – 1:35	Immune correlates of protection against influenza A(H1N1)pdm	Sophia Ng
1:35–1:55	Establishing a prospective community cohort to study the impact of repeat vaccination on the response to influenza virus infection (SHIVERS-II)	Claire Newbern
1:55–2:15	Session 4 Summary/Discussion	

TEAMBUILDING ACTIVITY – Library Reading Room (3rd Floor)

2:15 - 2:40	Teambuilding: Get to know your fellow CEIRS Investigators!
2:40 – 3:00	Break if Purchased - Refreshments in Presidents Gallery (1st floor)

Session 5: Molecular Virology – Hosack Hall (1st floor)

Session Chairs: John Steel and Ivan Marazzi

3:00 - 3:15	Emory/UGA Center Update	Walt Orenstein
3:15 – 3:35	Antigenic Cartography of H9 reverse genetics viruses and field H9 isolates reveals discrepancy of phylogenetic predictions.	Silvia Carnaccini
3:35 - 3:55	The Interferon-Induced Protein 44 Interacts with the Cellular Protein FK506-Binding Protein 5, Negatively Regulates host Antiviral Responses and Supports Influenza Virus Replication	Marta Lopez de Diego
3:55 - 4:15	Heterologous packaging signals on HA, but not NA, limit influenza A virus reassortment	Maria White
4:15 – 4:30	DPCC Update	Stephan Bour
4:30 - 4:50	Session 5 Summary/Discussion	

Poster Session #2 – Room 20 (2nd floor)

4:50 - 6:15	Poster Session 2
6:15 – 7:30	Free/Travel time
7:30 - 10:00	Optional dinner at Grand Central Oyster Bar (Grand Central Terminal Lower Level)

Wednesday July 25th, 2018

7:15-8:15	Breakfast – Presidents Gallery (1 st floor)	
8:10 - 8:15	Housekeeping – Hosack Hall (1 st floor)	
8:15 - 9:00	Keynote Address: “Do differences make a difference: human immune variations and responsiveness?”	John Tsang, Ph.D. Chief, Systems Genomics and Bioinformatics Unit, Laboratory of Immune Systems Biology, NIAID

Session 6: Towards Broadly Protective Influenza Vaccines – Hosack Hall (1st floor)

Session Chairs: Mark Sangster and Maureen McGargill

9:00 - 9:20	Resource Update Session – updates from working groups	Working Group Leaders
9:20 - 9:40	How establishment of early childhood cohorts can reveal critical insight into influenza immunity	Jennifer Nayak
9:40 - 10:00	Pulmonary monocytes promote the establishment of lung tissue-resident CD8 T cell memory following influenza infection	Paul Dunbar
10:00 - 10:20	Break if Purchased - Refreshments in Presidents Gallery (1st floor)	
10:20 - 10:35	NYICE Center Update	Dave Topham
10:35 - 10:55	B cell response to neuraminidase after influenza virus infection	Yaoqing Chen
10:55 - 11:15	Immune responses to influenza vaccination in older adults	Benjamin Cowling
11:15 - 11:35	Infection-induced heterosubtypic immunity against influenza virus correlates better with humoral than cellular immunity in TIV-vaccinated mice and benefits from innate immune activation	Michael Schotsaert
11:35 - 11:55	Mapping single cell transcriptional heterogeneity during an IAV-specific killer T cell response	Stephen Turner
11:55 - 1:10	Lunch – Library Reading Room (3rd floor)	
1:10 - 1:30	Determining baseline CMI and ADCC immune correlates in a household model of influenza transmission	Sophie Valkenburg Doak
1:30 - 1:50	The advantages of pure HA protein-based influenza vaccines for eliciting CD4 T cell dependent antibody responses	Andrea Sant
1:50 - 2:10	IL-1 cytokines promote ADAMTS-mediated remodeling of the lung extracellular matrix during severe influenza A infection in mice	David Boyd
2:10 – 2:30	Innate immune antagonist function and cellular localization dynamics of human and avian influenza A virus NS1 proteins in human dendritic cells	Paula Lopez Monteagudo
2:30 – 2:50	Session 6 Summary/Discussion	

Decision 2018: Debate – Hosack Hall (1st floor)

2:50 - 3:25 Animal Studies vs Human Studies for Understanding Influenza: Which are more important?

Moderator: Andy Pekosz

Team Animal Studies:

Andy Bowman, Constantinos Kyriakis, Randy Albrecht, Patrick Wilson

Team Human Studies:

Rafael Medina, Steve Turner, Ben Cowling, Carl Davis

Meeting Wrap-Up

3:25 - 3:30 Closing Remarks/Meeting Adjourn

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