

9th Annual CEIRS Network Meeting

June 26 - June 29, 2016

Memphis Cook Convention Center Memphis, TN

Hosted by:

St. Jude Children's Research Hospital
Center of Excellence for Influenza Research and Surveillance
(SJCEIRS)

Sponsored by: NIH/NIAID CEIRS Program



Dear Colleagues:

On behalf of NIAID and SJCEIRS we welcome you to St. Jude, Memphis, and the 9th Annual CEIRS Network Meeting. As with previous events, the annual meetings goals are to provide a collaborative and confidential forum for you to discuss recent results, engage intra and inter CEIRS center colleagues, and to drive the future of our network. Based on the sage advice of the most famous Memphian of all, Elvis, who stated "After a hard day of basic training, you could eat a rattlesnake", we have also worked hard to provide poster and evening gatherings that in addition to the formal sessions should foster these goals.

While emerging virus threats such as Ebola and Zika are on the forefront of media and public infectious disease attention, influenza has certainly not gone away and the threats from seasonal and zoonotic viruses remain. At the time of writing this welcome, Memphis is in the midst of a small measles outbreak, clear reminder of the challenges we face. While on the topic of challenges, we would like to take this opportunity to thank everyone who has contributed to the planning, organization, and implementation of this meeting, we hope you all enjoy the fruits of their labors.

We welcome you again, urge you to sit back, relax, soak up some true deep-fried Southern Hospitality, and enjoy the rattlesnake.

Thank ya, thank you very much~

Diane Post Program Officer NIAID/DMID Richard Webby PI/Director, SJCEIRS SJCRH Stacey Schultz-Cherry PI/Co-Director, SJCEIRS SJCRH





9th Annual CEIRS Network Meeting

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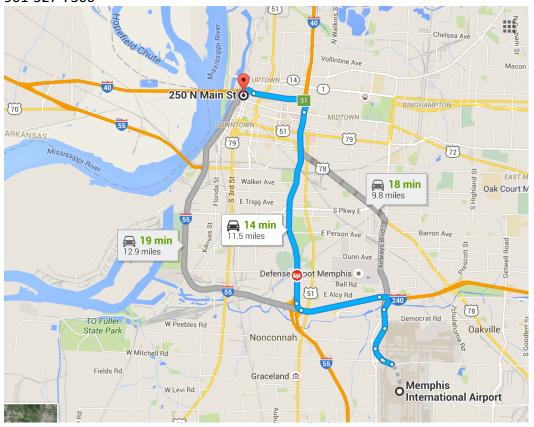


DIRECTIONS

Sheraton Memphis Downtown Hotel

250 North Main Street

901-527-7300



From Memphis International Airport

Exit the airport on Winchester Road West and follow the signs to Interstate 240. Merge onto Interstate 240 West toward Little Rock / Downtown. Merge onto Interstate 240 North. Take Exit 31 and merge onto Interstate 40 West/ Little Rock. Take Exit 1A toward Second Street. Turn left onto North 2nd Street. Turn right onto Exchange Avenue. Turn right onto Main Street. The hotel is on the right.

From East (Nashville)

From Interstate 40, follow the signs for Memphis. Take Exit 10B and continue on I-40 West/Little Rock. Take Exit 1A toward 2nd Street. Turn left onto North 2nd Street. Turn right onto Exchange Avenue. Turn right onto Main Street. The hotel is on the right.

From South (Mississippi)

Proceed north on Interstate 55. Continue on I-55 North as it merges with Interstate 69 North and Interstate 240 North. Take Exit 31 onto Interstate 40 West/Little Rock. Take Exit 1A toward 3rd Street. Turn left onto 2nd Street. Turn right onto Exchange Avenue. Turn right onto North Main Street. The hotel is on the right.

From West (Arkansas)

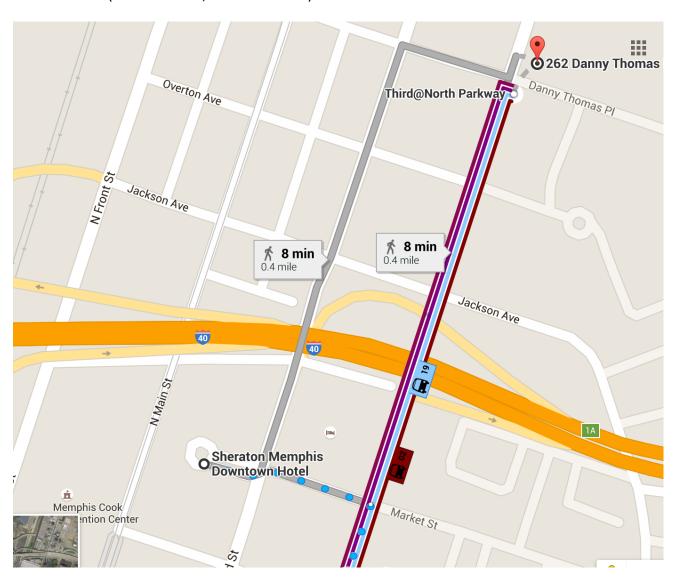
Take Interstate 40 East toward Memphis/Nashville. Take Exit 1 for Front Street. Stay left at the fork following the signs toward Front Street North. Turn left onto Front Street. Turn right onto Winchester Avenue. Turn right onto North Main Street. The hotel is on the left.



DIRECTIONS

St. Jude Children's Research Hospital

262 Danny Thomas Place 901-595-3400 (St. Jude CEIRS, James Knowles)



From Sheraton Memphis Downtown Hotel

Head east toward Market Ave.

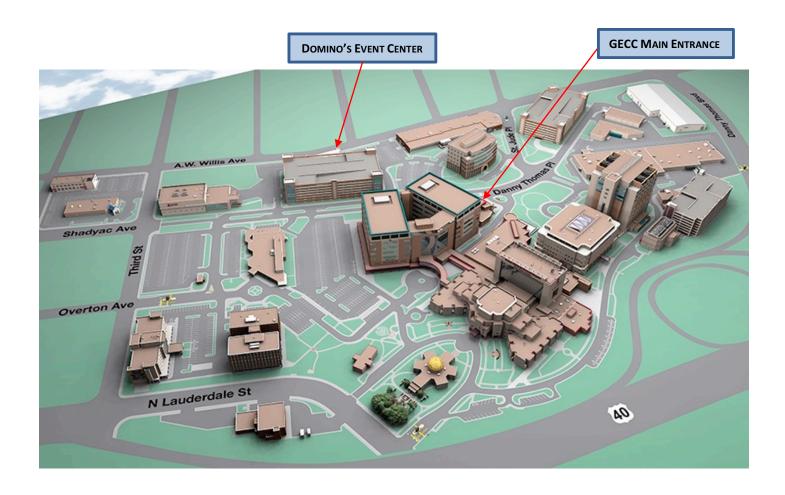
Slight right onto Market Ave.

Turn right onto N B.B. King Blvd

St. Jude Children's Research Hospital will be on the left



ST. JUDE CHILDREN'S RESEARCH HOSPITAL CAMPUS MAP Marlo Thomas Center for Global Education and Collaboration (GECC): Sunday June 26th

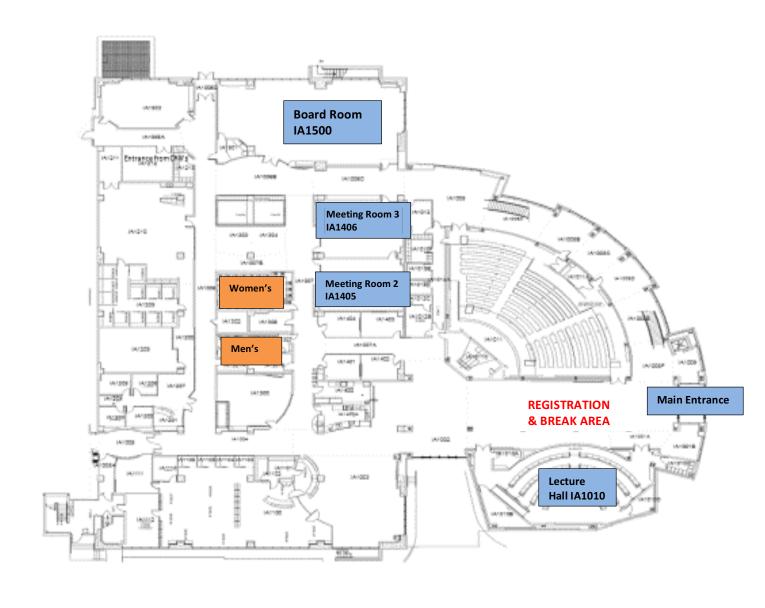


GECC: Break-out Sessions (noon- 6:00pm)

Domino's Event Center: CEIRS Meeting Reception (6:30-9:00pm)

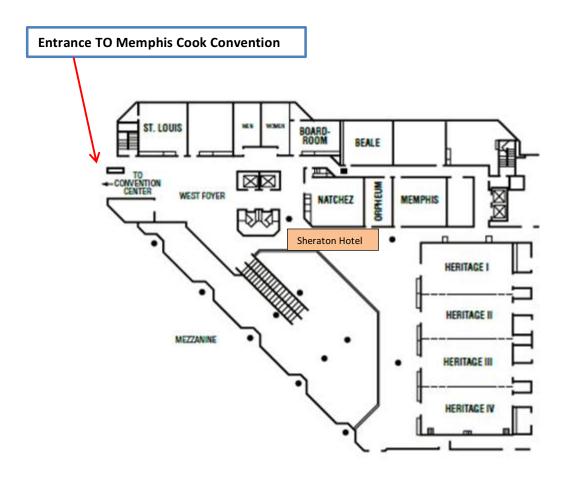


ST. JUDE CHILDREN'S RESEARCH HOSPITAL MARLO THOMAS CENTER FOR GLOBAL EDUCATION AND COLLABORATION (GECC) 1ST FLOOR



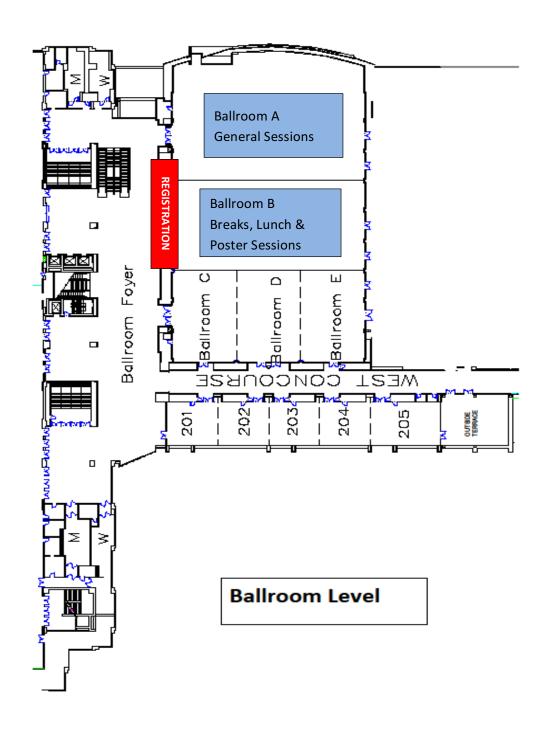


SHERATON MEMPHIS DOWNTOWN 2ND FLOOR





MEMPHIS COOK CONVENTION CENTER FLOOR PLAN Ballroom Level

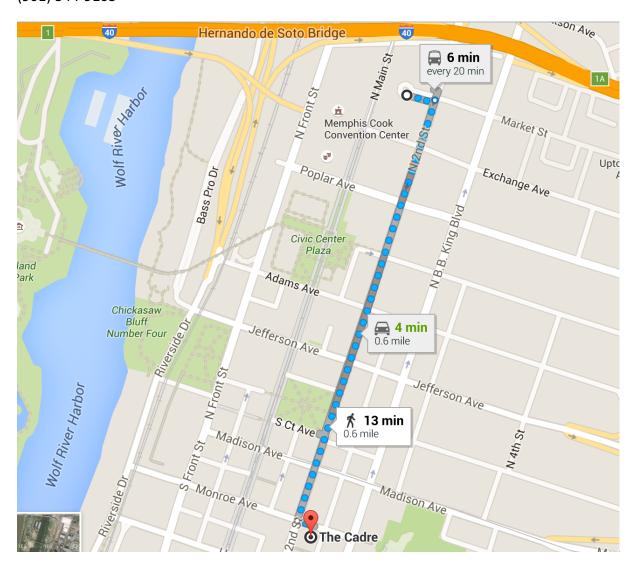




DIRECTIONS

The Cadre

149 Monroe Avenue (901) 544-9103



From Sheraton Memphis Downtown

Head east toward Market Ave.

Slight right onto Market Ave.

Turn right onto N 2 St.

The Cadre on corner of 2nd St and Monroe Ave.

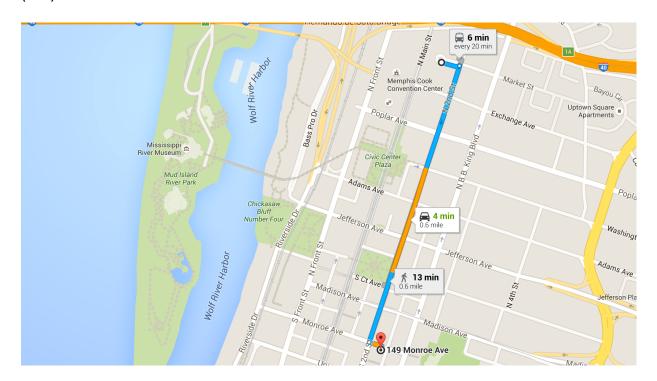
Entrance to The Cadre on 2nd Street



DIRECTIONS

Jerry Lee Lewis Café & Honky Tonk

149 Monroe Avenue (901) 544-9103



From Sheraton Memphis Downtown

Head east toward Market Ave

Continue onto Market Ave.

Turn right onto N 2 nd St.

Turn left onto Union Ave.

Turn right onto S 4th St.

Turn right onto Beale St.

Jerry Lee Lewis will be on right



9th Annual CEIRS Network Meeting "At A Glance"

SUNDAY JUNE 26 TH		
REGISTRATION	11:00am-6:30pm	GECC Lobby/Main Entrance
Break-Out Session: Team Ferret	12:00pm-1:00pm	GECC Board Room
Break-Out Session: Avian Surveillance	1:00pm-2:00pm	GECC Board Room
Break-Out Session: Swine Surveillance	2:00pm-3:00pm	GECC Board Room
Break-Out Session: Virus-Host Characterization	3:00pm-5:00pm	GECC Board Room
Break-Out Session: Clinical	12:00pm-3:00pm	GECC Lecture Hall
Break-Out Session: Human Surveillance	3:00pm-4:00pm	GECC Lecture Hall
Break-Out Session: NIAID OA-Contract Q&A	4:00pm-5:00pm	GECC Lecture Hall
Break-Out Session: Data Management	12:00pm-1:00pm	GECC Meeting Room #2
Break-Out Session: Experimental Data	1:00pm-2:00pm	GECC Meeting Room #2
Break-Out Session: Trainee Session - Influenza Research Priorities	2:00pm-3:00pm	GECC Meeting Room #2
Break-Out Session: DIGS Sequencing	3:00pm-4:00pm	GECC Meeting Room #2
Break-Out Session: Data Analysis Tools	4:00pm-5:00pm	GECC Meeting Room #2
Break-Out Session: Pandemic Planning Advisory Committee (PPAC)	4:00pm-5:00pm	GECC Meeting Room #3
CENTER Breakout (CRIP -closed)	5:00pm-6:00pm	GECC Board Room
CENTER Breakout (NYICE- closed)	5:00pm-6:00pm	GECC Meeting Room #2
CENTER Breakout (JHCEIRS- closed)	5:00pm-6:00pm	GECC Meeting Room #3
CENTER Breakout (SJCEIRS- closed)	5:00pm-6:00pm	GECC Meeting Room #5
WELCOME RECEPTION	6:30pm- 9:00pm	Domino's Center, SJCRH
MONDAY JUNE 27 TH		
REGISTRATION	7:30am-5:00pm	MCC Ballroom A/B
Poster Session #1 Set-up	7:30am-8:00am	Ballroom B
DPCC Tech and Training Bar	8:00am-4:25pm	Rm 204 West Concourse
Welcome & CEIRS Update	8:00am-8:25am	Ballroom A
General Sessions 1- Pandemic Preparedness	8:25am-10:55am	Ballroom A
AM Break*	10:00am-10:25am	Ballroom B



D		
Panel Discussion #1 (GoFROC Policy & next steps)	10:55am-11:25am	Ballroom A
General Sessions 2- Surveillance	11:25am-4:25pm	Ballroom A
LUNCH*	12:00pm-1:15pm	Ballroom B
NEC Luncheon	12:00pm-1:15pm	Rm 205 West Concourse
PM Break*	2:50pm-3:15pm	Ballroom B
Poster Session Presentations (1 minute)	4:25pm-5:15pm	Ballroom A
Bus Ride: The Cadre	5:15pm-6:00pm	Sheraton Hotel- Main St.
Speed Networking & Poster Session #1	6:00pm-8:00pm	The Cadre
DINNER & Dinner Discussion	6:00pm-9:00pm	The Cadre
TUESDAY JUNE 28 TH		
REGISTRATION	7:30am-5:00pm	MCC Ballroom A/B
Housekeeping	7:55am-8:00am	Ballroom A
Poster Session #2 Set-up	7:30am-8:00am	Ballroom B
General Sessions 2- Surveillance cont.	8:00am-11:00am	Ballroom A
AM Break*	9:55am-10:20am	Ballroom B
General Sessions 3- Immunity & Vaccines	11:00am-3:10pm	Ballroom A
LUNCH*	12:15pm-1:30pm	Ballroom B
Coordinator Luncheon	12:15pm-1:30pm	Rm 205 West Concourse
PM Break*	3:10pm-3:30pm	Ballroom B
Panel Discussion #2 (Universal Flu Vaccine Debate)	3:30pm-4:15pm	Ballroom A
General Sessions 3- Immunity & Vaccines cont.	4:15pm-5:30pm	Ballroom A
Bus Ride: Jerry Lee Lewis Café & Honky Tonk	5:30pm-6:30pm	Sheraton Hotel- Main St.
Team Building & Poster Session #2	6:30pm-8:00pm	Jerry Lee Lewis Café & HT



WEDNESDAY JUNE 29 TH		
HOUSEKEEPING	7:55am-8:00am	Ballroom A
General Sessions 4- New Technologies & Resources	8:00am-10:00am	Ballroom A
AM Break*	10:00am-10:20am	Ballroom B
General Sessions 5- Pathogenesis & Transmission	10:20am-2:25pm	Ballroom A
LUNCH*	11:55am-1:10pm	Ballroom B
General Sessions 6- Molecular Virology	2:25pm-5:00pm	Ballroom A
Meeting Wrap-up!	5:00pm-5:15pm	Ballroom A

^{*}Food & beverage during Breaks, Lunch and Dinner limited to those paying optional food fees



9th Annual CEIRS Network Meeting

Sunday June 26th, 2016 – Wednesday June 29th, 2016 **MEMPHIS CONVENTION CENTER**255 N Main St

Memphis, TN 38103

Sunday June 26th, 2016

11:00 - 7:00

Arrival and Check-in – Marlo Thomas Center for Global Education and Collaboration (GECC) at Kay Research & Care Center entrance

Breakout Meetings GECC (St Jude Children's Research Hospital Campus)

12:00 – 6:00 pm Concurrent breakout meetings for CEIRS members to be held on <u>St. Jude Children's Research Hospital Campus at the GECC in Kay Research Center</u>. Break out meetings include CEIRS Cross-Collaborative working groups & informational sessions. Interested CEIRS members should attend any groups of interest.

Meeting TIME	GECC Board Room	GECC Lecture Hall	GECC Meeting Room 2	GECC Meeting Room 3
12:00- 1:00 pm	Team Ferret Lead: Stacey Schultz- Cherry	Clinical Breakout Lead: Robin Mason	Data Management Lead: Marciela DeGrace	
1:00- 2:00 pm	Avian Surveillance Lead: Dave Stallknecht & Scott Krauss	Clinical Breakout continued	Experimental Data Lead: Eric Bortz	
2:00- 3:00 pm	Swine Surveillance Lead: Nicola Lewis, Amy Vincent & Martha Nelson	Clinical Breakout continued	Trainee session — Influenza research priorities Lead: Diane Post & Stacey Schultz-Cherry	
3:00- 4:00 pm	Virus-Host characterization Lead: Scott Krauss & Marciela DeGrace	Human Surveillance Lead: Rich Rothman & John Treanor	DIGS Sequencing Lead: Harm van Bakel, Peter Thielen, Justin Bahl, Ralph Tripp	
4:00- 5:00 pm	Virus-Host characterization continued	Contract Management* Lead: Diane Post & Shane Ryan	Data Analysis Tools Lead: Justin Bahl	Pandemic Planning Advisory Committee (PPAC) Lead: Michael Osterholm
5:00- 6:00 pm	CRIP Center Breakout Session (closed meeting)	SJCEIRS Center Breakout Session## (closed meeting)	NYICE Center Breakout Session (closed meeting)	JHCEIRS Center Breakout Session (closed meeting)

^{*}Participant-dependent; subject to room change;

6:30 – 9:00 pm OPTIONAL WELCOME RECEPTION – Domino's Center on St. Jude Children's Research Hospital Campus

^{##}Note: Location change- Meeting Room #5 for St. Jude Center meeting



Monday June 27 th , 2016		
7:30 – 5:00	Arrival and Check-in – Ballroom A/B entrance	
7:30 – 8:00	Poster Session #1 Set-up – Ballroom B	
Meeting Opening	Memphis Convention Center	Ballroom A
8:00 – 8:05	Welcome – Richard Webby and Stacey Schultz-Cherry	
8:05 – 8:25	Update on CEIRS – Diane Post and Marciela DeGrace	
	Memphis Convention Center Rm 203 - Wes	st Concourse
8:00 – 4:25	DPCC Tech and Training Bar – CEIRS DPCC Help Desk	
Session 1:	Pandemic Preparedness & Risk Assessment	Ballroom A
Session Chairs:	John Steel (Emory UGA) & Tom Fabrizio (SJCEIRS)	
8:25 - 8:40	Virus Characterization Working Group – Scott Krauss	
8:40 - 9:00	Continuous Evolution and risk assessment of the H5 and H7 s avian influenza viruses in China – Zhu Huachen	ubtypes of
9:00-9:20	Recent Advances in Pandemic Influenza Modeling – Joshua E	Epstein
9:20-9:40	The 2016 H7N8 Highly Pathogenic Avian Influenza Outbreak i David Suarez	n Indiana –

	David Suarez
9:40-10:00	Characterization of animal influenza virus infection and transmission in mammalian hosts – Hualan Chen
10:00–10:25	BREAK - Ballroom B
10:25-10:40	Update on CEIRS Pandemic Plan – Mike Osterholm
10:40-10:55	Pandemic Preparedness & risk assessment Panel discussion

Panel Discussion #1:	GoFROC Policy and next steps	Ballroom A
10:55-11:25	Panel – GoFROC discussion – implementation of policy at GoFROC approaches	nd alternative
	Moderator: Irene Glowinski Panelists: Charlie Russell, John Steel, Andy Pekosz, Ron Fou Daniel Perez, & David Spiro	chier,

Session 2:	Surveillance	Ballroom A
Session Chairs:	Andy Bowman (SJCEIRS) & Constantinos Kyriakis (Emory-UG	GA CEIRS)
11:25-11:40	Perspective on MERS or Surveillance – Vincent Munster	



11:40-12:00	Middle East Respiratory Syndrome Coronavirus (MERS-CoV) in Africa – Malik Peiris
12:00-1:15	LUNCH - Ballroom B
	NEC LUNCH - Room 205 – West Concourse
1:15-1:35	Surveillance for MERS Coronavirus in mammals in Egypt – Mohamed Ali
1:35-1:50	Swine Surveillance Working Group – Amy Vincent, Martha Nelson, & Nicola Lewis
1:50-2:10	Tracking Swine Influenza Virus Epidemics in the Southeast and Midwest USA via Characterization of H1 Hemagglutinin Antigenic Profiles – Constantinos Kyriakis
2:10-2:30	Novel Chilean swine H1N2 virus transmits in ferrets via the respiratory route – Nicholas Bravo
2:30-2:50	Phenotypic characterization of an H1N1 swine influenza A virus closely related to the ancestor of the 2009 pandemic – Nacho Mena
2:50-3:15	BREAK - Ballroom B
3:15-3:35	Sequential sampling of individuals during flow through closed, coordinated swine production systems in the United States – Bryan Kaplan
3:35-3:55	Panel discussion on Surveillance
3:55-4:10	Training Update – Randy Albrecht
4:10-4:25	Avian Surveillance Working Group – Dave Stallknecht & Scott Krauss
4:25-5:15	Poster Session #1 presentations (1 minute presentations)
5:15 - 6:00	Bus Ride to The Cadre (meet 5:15pm at Sheraton's fountain on Main St.)
6:00-6:30	SPEED NETWORKING - The Cadre Opportunity for junior investigators to interact in groups with senior investigators
6:00-8:00	POSTER SESSION #1 and TEAMBUILDING (The Cadre)
6:00-9:00	OPTIONAL DINNER – The Cadre
	Dinner discussion - Advice to young influenza scientists. Panel: Rafi Ahmed, Peter Doherty, Peter Palese & Rob Webster. Moderator: Ali Ellebedy



Tuesday June 28th, 2016

7:30-5:00 Arrival and Check-in – Ballroom A/B entrance

Poster Session #2 Set-up - Ballroom B

7:55-8:00 Housekeeping – Ballroom A

Session 2 cont.	Surveillance Ballroom A
Session Chairs:	Jon Runstadler (CRIP) & Becky Poulson (SJCEIRS)
8:00-8:20	Prevalence, diversity, dynamics and diffusion of avian influenza A viruses among key wild bird groups at a major breeding, migratory and overwintering site in Europe – Nicola Lewis
8:20-8:40	Emergence and Spread of an Avian H11 Influenza Virus in a Colombian Live Animal Market – Pedro Jimenez-Bluhm
8:40-9:00	Antibodies to North American and clade 2.3.4.4 Eurasian H5 influenza viruses in Canada geese – David Stallknecht
9:00-9:15	Human working group – Rich Rothman & John Treanor
9:15-9:35	Severe pdmH1N1-2009 influenza during the 2015 season in Santiago, Chile – Tamara Garcia
9:35-9:55	Incidence of Influenza and Influenza Re-infection in a Cohort of Nicaraguan Children – Aubree Gordon
9:55-10:20	BREAK - Ballroom B
10:20-10:40	H1N1 disease in Baltimore versus Taipei Taiwan – Rich Rothman
10:40-11:00	Surveillance Panel discussion
Session 3	Immunity and Vaccines Ballroom A
Session Chairs:	Paul Thomas (SJCEIRS) & Ali Ellebedy (Emory-UGA CEIRS)
11:00-11:15	Perspective on Immunity – Peter Doherty
11:15-11:35	Defining antigen specific plasmablast and memory B cell subsets in blood following viral infection and vaccination of humans – Ali Ellebedy
11:35-11:55	Patterns of Antibody response to influenza after a first and second infection – Samuel Wilks
11:55-12:15	A universal influenza virus vaccine candidate confers protection against pandemic H1N1 infection in ferrets. – Raffael Nachbagauer
12:15-1:30	LUNCH - Ballroom B
12:15-1:30	COORDINATOR LUNCH - Room 205 - West Concourse



1:30-1:50	Neutralizing and non-neutralizing human H7N9 influenza vaccine-induced monoclonal antibodies offer protection <i>in vivo</i> – Carole Henry Dunand
1:50-2:10	Hemagglutinin stalk-specific antibodies potently induce phagocytosis of immune complexes and the release of extracellular traps by neutrophils – Caitlin Mullarkey
2:10-2:30	Systemic dysregulation of cellular immune responses to H1N1 infection during pregnancy – Elizabeth Littauer
2:30-2:50	Flow Cytometric and Cytokine ELISpot Approaches to Characterize the Cell-mediated Immune Response in Ferrets Following Influenza Virus Infection – Anthony DiPiazza
2:50-3:10	Immunity and Vaccines panel discussion
3:10 – 3:30	BREAK – Ballroom B
Panel Discussion #2:	Decision 2016 Debate: Universal Flu Vaccines
3:30-4:15	<u>Decision 2016</u> - Universal Flu Vaccines: Pros, Cons and will we ever have one Moderator: Daniel Perez
	Team Pro Universal Flu Vaccine: Florian Krammer, Peter Palese, Patrick
	Wilson & Ruben Donis
	Team Cons Universal Flu Vaccine: Paul Thomas, John Treanor, Mike Osterholm, & Andrea Sant
0	Della and A

Session 3 cont.	Immunity and Vaccines	Ballroom A
Session Chairs:	Sabra Klein (JHCEIRS) & Brenda Tesini (NYICE)	
4:15-4:35	Recognition of swine-origin influenza H3N2 variant virus by hu neutralizing antibodies – Sandhya Bangaru	man
4:35-4:55	Evolution of the influenza-specific CD4 T cell response from chadulthood – Jennifer Nayak	nildhood to
4:55-5:15	Links between specificity and function in CD4 T cell immunity tvirus – Andrea Sant	to influenza
5:15-5:30	Immunity and Vaccines panel discussion	
5:30 - 6:30	Bus Ride to Jerry Lee Lewis Café and Honky Tonk (meet 5: Sheraton's fountain on Main St.)	15pm at
6:30-8:00	POSTER SESSION #2 and TEAMBUILDING – Jerry Lee Lev Honky Tonk	wis Café and
6:30-???	OPTIONAL DINNER – Jerry Lee Lewis Café and Honky To	nk



Wednesday June 29th, 2016

7:55-8:00 Housekeeping – Ballroom A

Session Chairs: Ralph Tripp (Emory-UGA CEIRS) & Luis Martinez (NYICE) 8:00-8:15 Team Ferret & Cell Core update – Stacey Schultz-Cherry	
8:00-8:15 Team Ferret & Cell Core update – Stacey Schultz-Cherry	
,	
8:15-8:30 DIGS Sequencing Core – Constantinos Kyriakis, Harm van Bak Bahl	kel, & Justin
8:30-8:50 Establishing new cell culture models to study bat-borne emerging Carles Martinez-Romero	ng viruses –
8:50-9:10 The use of implantable Telemetry devices for acquiring real-time physiological data during an influenza virus infection in ferrets –	
9:10-9:30 A novel influenza A barcoded-library reveals NS1 adaptations to Raquel Munoz-Moreno	to the host –
9:30-9:45 Panel discussion on new technologies and resources	
9:45-10:00 Data Management update – Marciela DeGrace	
10:00-10:20 BREAK – Ballroom B	

Session 5: Session Chairs:	Pathogenesis & Transmission Ballroom A Stacey Schultz-Cherry (SJCEIRS) & Jefferson Santos (CRIP)
10:20-10:35	Perspective Presentation – Mark Tompkins
10:35–10:55	HPAI H5N1 airborne-transmission substitutions: low pathogenicity in ferrets and clade-dependent phenotypes – Sander Herfst
10:55-11:15	Phenotypic Differences observed in Swine and Human Pandemic H1N1 viruses – Daniel Darnell
11:15-11:35	Characterization of highly pathogenic avian influenza H5N6 viruses of clade 2.3.4.4. – Mathilde Richard
11:35-11:55	Impact of Natural Variation in the Eurasian Avian-Like Swine Lineage M1 Protein on Replication and Transmission of Influenza A Virus – John Steel
11:55-1:10	LUNCH – Ballroom B
1:10-1:30	Obesity weighs heavily on secondary bacterial infection following influenza virus challenge – Erik Karlsson
1:30-1:50	Immunological parameters that associate with severe influenza disease or recovery in mice - Juliet Morrison



1:50-2:10	Panel discussion on Pathogenesis and Transmission
2:10-2:25	Influenza research priorities: Trainees perspective

Session 6:	Molecular Virology	Ballroom A
Session Chairs:	Andy Pekosz (JHCEIRS) & Mark Zanin (SJCEIRS)	
2:25-2:40	Perspective presentation on Molecular Virology – Andy Pekosz	2
2:40-3:00	Impact of packaging signal mismatch on influenza A virus reas Anice Lowen	sortment –
3:00-3:20	BREAK – Ballroom B	
3:20-3:40	Design and incorporation of mosaic hemagglutinins as a univervaccination strategy against influenza B viruses – Megan Ermle	
3:40-4:00	Development and characterization of influenza B-H5 chimera v Jefferson Santos	iruses –
4:00-4:20	Distribution of O-acetylated sialic acids in influenza host tissue: Wasik	s – Brian
4:20-4:40	Plasticity of amino acids at 2 positions in the RBS of H9 Influer Adebimpe Obadan	nza virus –
4:40-5:00	Panel discussion on Molecular Virology	
5:00-5:15	Meeting wrap-up (with clickers)	



9th Annual CEIRS Network Meeting POSTER SESSIONS

June 26th, 2016 –June 29th, 2016

Poster Session #1: Surveillance- Human & Other

Poster #	Name	Center	Title
1	Ana Beatriz Gorini da Veiga	CRIP	Mutation analyses of Influenza A viruses isolated from clinical samples
2	Angela Danner	SJCRH	Vaccine Breakdown in an Outbreak of Equine Influenza
3	Benjamin Cowling	SJCRH	Epidemiology of Influenza in a household transmission study
4	Duamaco Escribano	SJCRH	Incidence and mortality rate for acute respiratory infections in three ethnic groups in the north of Colombia.
5	Juan Dib	SJCRH	Genetic susceptibility to infection by Influenza virus in the Kogui Indians from the North of Colombia.
6	Hirotaka Imai	CRIP	Natural selection limits human adaptation of H5N1 influenza viruses within individual hosts despite prolonged infection
7	Justin Hardick	JHCEIRS	Characterization of Influenza A Viruses from Three Cohorts of Influenza Positive Samples by RT-PCR/ESI-MS
8	Valerie Cortez	SJCRH	Comparative seroprevalence of respiratory and enteric virus infections within indigenous communities in the Sierra Nevada de Santa Marta, Colombia
9	Wendy Puryear	CRIP	Expanding our ecological understanding of Influenza A Virus: a role for both opportunistic and prospective sampling in marine mammals.
10	Zhen-Ying Liu	JHCEIRS	Predictive factors of false positive rapid influenza diagnostic tests among adults admitted to the emergency department in Taiwan.

Poster Session #1: Surveillance- Swine

Poster #	Name	Center	Title
11	Rafael Medina	CRIP	Improved diagnostics and surveillance identify novel reassortant swine influenza a viruses in Chile



12	Andrew Bowman	SJCRH	Controlling influenza A virus in swine at agricultural fairs to improve public health.
13	Andrew Bowman	SJCRH	Influenza A virus contamination of animal contact surfaces during swine corralling activities at agricultural fairs.
14	Constantinos Kyriakis	Emory- UGA	The Founder Effect Facilitates Fast Evolution of Swine Influenza A Virus in the Southeastern USA
15	Gustavo Real- Soldevilla	CRIP	Influenza surveillance in wild boars and free-range Iberian pigs in Spain
16	Jingjiao Ma	SJCRH	Characterization of swine influenza viruses isolated from Midwest USA swine herds
17	Marina Dibarbora	CRIP	Phylogenetic analysis of swine influenza virus isolated in Argentina
18	Josh Lorbach	SJCRH	Outbreak of porcine hemagglutinating encephalomyelitis virus associated with influenza-like illness in exhibition swine at agricultural fairs in Michigan in 2015.
19	Karl Cuioderis	SJCRH	pdmH1N1 is endemic in Colombian swine populations.

Poster Session #1: Surveillance- Avian

Poster #	Name	Center	Title
20	Hui-Ling Yen	SJCRH	Isolation of H5N6, H7N9, and H9N2 avian influenza viruses from air sampled at live poultry markets in China, 2014-2015
21	Christopher Hamilton-West	SJCRH	Risk based surveillance or influenza virus in wild birds in Chile
22	Jacqueline Nolting	SJCRH	Influenza A surveillance efforts in wild birds using the Mississippi Migratory Flyway, 2015-2016
23	Jacqueline Nolting	SJCRH	The impact of host migratory behavior on the evolution of influenza A virus diversity at a small spatial scale.
24	Rebecca Poulson	SJCRH	Influenza A Subtype Diversity in Fall Migrating Teal: Almost a Decade in the Making
25	Marjolein Poen	CRIP	Lack of virological and serological evidence for continued circulation of highly pathogenic avian influenza H5N8 virus in wild birds in the Netherlands, 2014-2016



26	Nichola Hill	CRIP	Do anthropogenic habitats promote amplification of influenza in gulls?
27	Peter Thielen	JHCEIRS	Deployable Sequencing Methods for Real-Time Influenza Genomic Surveillance
28	Philip Meade	CRIP	Serological response in mallards to successive infection with low-pathogenic influenza viruses H3N8 and H4N5.
29	Thomas Fabrizio	SJCRH	Spatial separation of North and South American- lineage influenza viruses in Brazilian birds.
30	Gongxun Zhong	CRIP	Characterization of Avian H5N1 Influenza Viruses From Vietnam
31	Gonzalo Barriga	CRIP	Wild Bird Influenza Virus Surveillance in Chile
32	Islam Hussein	CRIP	Circulation of low pathogenic H5N2 in Alaskan wild birds prior to emergence of highly pathogenic H5 viruses in North American poultry
33	Truc Pham	SJCRH	Dynamics and risk of reassortment between AIV subtypes in Alaska
34	Agustina Rimondi	CRIP	Wild Bird Influenza Surveillance in Argentina
35	Vijay Dhanasekaran	SJCRH	Avian influenza viruses of diverse origins detected in Adélie Penguins in Antarctica

Poster Session #1: Pandemic Preparedness & Risk Assessment

Poster #	Name	Center	Title
36	Gavin Smith	SJCRH	Staggered Introduction of Eurasian Avian Swine Lineage Segments into Pig Circulation: Revisiting the Single Precursor Origin?
37	Bindu Marathe	SJCRH	Extension of Treatment Window for Highly Pathogenic Influenza A(H5N1) Virus Infection in Mice with Oseltamivir and T-705 Combination
38	Laura Eckard	SJCRH	The zoonotic potential of a novel Influenza C-like virus

Poster Session #1: Molecular Virology

Poster #	Name	Center	Title
39	Adebimpe Obadan	CRIP	Pathogenesis of a novel H5N2 virus in turkeys following prime-boost vaccination strategies
40	Anice Lowen	Emory- UGA	Droplet digital PCR assay for quantification of defective interfering influenza A viruses



41	Colin Parrish	CRIP	Modified sialic acids and their expression in influenza hosts.
42	David Suarez	CRIP	H7 hemagglutinin gene limits poultry transmission and replication in Chinese avian influenza isolates
43	Deena Blumenkranz	JHCEIRS	Stability of the influenza hemagglutinin protein correlates with fitness and evolution
44	Grant Beyleveld	CRIP	Exploring host factors that support replication of respiratory viruses
45	Hsuan Liu	JHCEIRS	Mutations in the M1 protein increase infectious virus titers and enhance filamentous virus production in influenza A viruses encoding M2-Y76A
46	Hui-Ling Yen	SJCRH	Sialyl glycans recognized by the hemagglutinin and neuraminidase proteins of A(H1N1)pdm09 and swine influenza viruses
47	Jefferson Santos	CRIP	Effect of alternative amino acid substitutions near the receptor-binding site of influenza A H3 viruses
48	Lucas Ferreri	CRIP	Evaluating internal genes reassortment in an Argentinian H4N2 virus.
49	Maria White	Emory- UGA	Quantifying the effects of RNA packaging signal divergence on influenza A virus reassortment
50	Nicholas Wolghemuth	JHCEIRS	Influenza A virus M2 protein apical targeting is required for efficient virus assembly and replication
51	Vinod Balasubramaniam	CRIP	Live visualization of hemagglutinin dynamics during infection by using biarsenically labeled replication competent Influenza A virus

Poster Session #1: Data & Resource Management and Experimental Data

Poster#	Name	Center	Title
52	Ana Silvia Gonzalez- Reiche	CRIP	Transfer of technology between two CRIP laboratories: Expanding Next Generation Sequencing capacity for the CEIRS network
53	Stephan Bour	DPCC	New Feature of the DPCC to Find Information, Share Data and Collaborate
54	Eric Bortz	CRIP	Virus-Host Interactions: modeling experimental data on emerging influenza and coronaviruses
55	Jayeeta Dutta	CRIP	Next generation sequencing for Influenza genome



56	Bridgett Sharp	SJCRH	South American Influenza Surveillance: A Tale of Data Collection and Management
57	Pamela Freiden	SJCRH	St. Jude Ferret Reagent Core: Developing key reagents to study cellular, immunological, and virological processes in influenza virus-infected ferrets.
58	Sean Cherry	SJCRH	Primary Respiratory Cell Core for the CEIRS Network
59	Veronika Chromikova	CRIP	A robust <i>in vitro</i> phagocytosis assay to measure the effector functions of antibodies directed to the influenza virus surface glycoproteins
60	Bryan Kaplan	SJCRH	Development of clade 2.3.4.4 H5NX in vivo challenge models

Poster Session #2: Immunology

Poster #	Name	Center	Title
1	Aisha Hegab	SJCRH	Herpesvirus co-infection alters immune responses to human influenza virus infection
2	Brenda Tesini	NYICE	Natural H3N2 influenza A infection in humans expands memory B cells specific for the hemagglutinin stalk domain
3	David Boyd	SJCRH	ADAMTS4 modulates lung tissue repair following lethal influenza A infection in mice
4	E. Stein Esser	Emory- UGA	Adverse outcomes of seasonal influenza A virus infection in pregnant mouse model
5	E Kaitlynn Allen	SJCRH	IFITM3 regulatory SNP increases severe human influenza risk by shifting transcription factor occupancy
6	Jacob Kohlmeier	Emory- UGA	Tissue-resident monocytes promote the establishment of lung-resident CD8 T cell memory following influenza infection
7	Jefferson Santos	CRIP	Genetic and phenotypic stability of an attenuated influenza B virus
8	Jenny Johnson	SJCRH	Understanding the impact of low dose rapamycin on B cells following a primary influenza infection.
9	Katherine Fenstermacher	JHCEIRS	Temperature-dependent induction of host innate immune response by Influenza A Virus in differentiated primary human nasal epithelial cells



10	Meenu Pillai	SJCRH	Autoreactive potential of cross-reactive influenza antibodies
11	Paul Leon	CRIP	Conserved epitopes on the head domain of the influenza B virus hemagglutinin
12	Stefan Schattgen	SJCRH	The antiviral molecule Mx1 positively regulates the induction of type I IFN in response to influenza infection.
13	Melissa Uccellini	CRIP	Ly6Chi inflammatory monocytes are the predominant IFN-responding cells during influenza virus infection
14	Xizhi Guo	SJCRH	The protective role of $\gamma\delta$ T cells in neonatal influenza

Poster Session #2: Immunology & Vaccine

Poster#	Name	Center	Title
15	Angela Choi	CRIP	Antibodies induced by a recombinant H5 vaccine in humans confer protection in a heterosubtypic influenza virus mouse passive transfer challenge model
16	Susu Duan	SJCRH	A novel monocyte-derived macrophage-like lung interstitial population of distinct recruitment kinetics contributes to influenza disease pathogenesis
17	Ashley Fink	JHCEIRS	Antibody responses and adverse reactions to influenza A virus immunization differ between the sexes in a mouse model
18	Christopher Anderson	NYICE	Rapid Identification of Candidate Vaccine Strains For Protection Against Emerging Avian Influenza Viruses
19	Jeri Carol Crumpton	SJCRH	Existing poultry vaccines provide protection against highly pathogenic North American H5 Clade 2.3.4.4 influenza A virus in chickens.
20	Katherine Richards	NYICE	Comparison of immunogenicity in season and avian influenza HA proteins in HLA-DR1 and HLA-DR4 Tg mice
21	Leo Poon	SJCRH	Quantifying influenza virus transmission bottlenecks in humans
22	Leo Poon	SJCRH	Stalking influenza by vaccination with pre-fusion headless HA mini-stem
23	Michael Schotsaert	CRIP	Infection-permissive immunity against influenza virus provided by vaccination prevents loss of alveolar macrophages and modulates virus-induced cross-reactive cellular immune responses during subsequent influenza infections.



24	Olivia Hall	JHCEIRS	Progesterone-based contraceptives alter immune responses and cross-protection against influenza A viruses in female mice
25	Racheal Keating	SJCRH	Inhibition of mTOR dampens the primary CD8 T cell response to influenza vaccination and enhances the cross-protective secondary response.
26	Wenqian He	CRIP	Protective non-neutralizing antibodies targeting the influenza virus hemagglutinin require alveolar macrophages to mediate virus clearance
27	Sook-San Wong	SJCRH	Evaluating the immune correlate of protection for an avian influenza H5N1 vaccine in the ferret model by using oil-in-water adjuvants
28	Sophia Ng	SJCRH	Immune correlates of protection and household transmission dynamics
29	Sun-Young Sunwoo	SJCRH	Evaluation of the efficacy of a universal influenza virus vaccine candidate in a pig model with maternal antibodies
30	Teddy John Wohlbold	CRIP	Broadly cross-reactive antibodies against the influenza B virus neuraminidase are protective against lethal viral challenge in mice when administered prophylactically or therapeutically
31	Xueting Qiu	SJCRH	Predicting H5N1 Lineage Specific Human CD8+ T-Cell-Reactive Epitopes for Vaccine Selection
32	Yaoqing Chen	NYICE	Neuraminidase targeted antibody response alters the severity of influenza infection
33	Erik Karlsson	SJCRH	Adjuvanted H7N9 influenza vaccine fails to protect obese mice in spite of seroconversion

Poster Session #2: Transmission and Adaptation

Poster #	Name	Center	Title
34	Erik Karlsson	SJCRH	The obese host as a driver of influenza virus evolution
35	Andrew Feldman	JHCEIRS	Modeling the Evolution of HA Protein Stability to Predict Viral Persistence in Populations
36	John Steel	Emory- UGA	Adaptation of the M segment to a mammalian host is important for transmission in a guinea pig model
37	Kimberly Davis	CRIP	The Characterization of Influenza A Virus Adaptations During Propagation in Laboratory Hosts



38	Marion Russier	SJCRH	Role of HA acid stability in the emergence of H1N1 pandemic influenza from swine
39	Thibaut Vausselin	CRIP	Role of host adaptive polymerase mutations in conferring species-specific interactions with essential host factors
40	Mark Zanin	SJCRH	An amino acid residue in the stalk domain of influenza neuraminidase N1 is critical for sialidase activity

Poster Session #2: Pathogenesis

Poster#	Name	Center	Title
41	Victoria Meliopoulos	SJCRH	Absence of β6 integrin protects highly susceptible obese mice from influenza infection
42	Victoria Meliopoulos	SJCRH	β6 integrin sets the baseline antiviral state in the lung through IFN dependent tuning of alveolar macrophage activation
43	Chinglai Yang	Emory- UGA	Infection and replication of H3N2 avian influenza viruses in mice
44	Christopher Bandoro	CRIP	Bacterial lipopolysaccharide directly reduces the infectivity of avian H3N8 and human H1N1 influenza viruses
45	Marco Straus	NYICE	Identification of bacterial proteases as activators of influenza A viruses
46	Michael Chan	SJCRH	Human mesenchymal stromal cells reduce influenza A H5N1–associated acute lung injury
47	Marta Lopez de Diego	NYICE	NS1 protein mutations affecting interferon responses and virulence of circulating H3N2 human influenza A viruses
48	Philippe Pascua	SJCRH	Influenza B Viruses with E119A or H274Y Oseltamivir- resistant Substitution did not Outcompete the Wild- type Virus in Co-infection Ferret Model
49	Francisco Chaves	NYICE	Production and evaluation of recombinant influenza hemagglutinin probes for detection of specific B cells
50	Shauna Marvin	SJCRH	Understanding the pathogenesis of highly pathogenic avian influenza viruses in mammals; Hijacking Macrophages for replication
51	Teresa Aydillo- Gomez	CRIP	Loss of Fitness in Mammalian Cells Imposed by the NS1 Protein from Bat Influenza Viruses



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