



## Agenda

### **Sunday, April 10, 2016**

6:00 PM – 7:30 PM **Welcome Reception (hors d'oeuvres, open bar)**  
**President's Galley, Main Floor, NYAM**

### **Monday, April 11, 2016 – Library Reading Room, 3<sup>rd</sup> Floor, NYAM**

8:30 AM – 9:00 AM Breakfast  
9:00 AM – 12:00 PM **Data Dissemination & Modeling Working Group Meeting**  
(Detailed agenda is provided separately)  
12:00 PM – 1:00 PM Lunch  
1:00 PM – 2:00 PM **Data & Modeling Wrap-Up Discussion**  
2:00 PM – 2:05 PM Welcome and Meeting Overview – Adolfo García-Sastre  
2:05 PM – 2:15 PM Opening Remarks – Vivien Dugan

#### **Program Highlights – Viruses**

**Moderators: Raul Andino & Andrew Pekosz**

2:15 PM – 2:45 PM **Fluomics** – Adolfo García-Sastre  
2:50 PM – 3:20 PM **FluDyNeMo** – Elodie Ghedin  
3:25 PM – 3:55 PM **Omics-LHV** – Yoshi Kawaoka  
4:00 PM – 4:15 PM Panel-led Discussion

#### **Program Highlights – Malaria & TB**

**Moderators: Eric Rubin & Stephen Smale**

4:20 PM – 4:50 PM **MaHPIC** – Mary Galinski & Jessie Kissinger  
4:55 PM – 5:25 PM **Omics4TB** – Alan Aderem  
5:30 PM – 5:45 PM Panel-led Discussion

6:00 PM – 8:00 PM **Reception (Dinner buffet included, open bar)**  
**Library Reading Room, 3<sup>rd</sup> Floor, NYAM**

### **Tuesday, April 12, 2016 – Library Reading Room, 3<sup>rd</sup> Floor, NYAM**

8:00 AM – 8:30 AM Breakfast

**Plenary Session 1 – Extended Talks/Research Highlights**

**Moderators: Shannon McWeeney & Michael Zhang**

8:30 AM – 9:00 AM	<b>Fluomics &amp; FluDyNeMo</b> Collaboration Talk – Bin Zhang & Christian Forst, <i>Integrative Network Analysis of Influenza Infection across Four Model Systems</i>
9:05 AM – 9:25 AM	<b>Omics4TB</b> – Tige Rustad, <i>New genetic screens for complex TB phenotypes</i>
9:30 AM – 9:50 AM	<b>MaHPIC</b> – Eberhard O. Voit, <i>Dynamic models in the Malaria Host Pathogen Interaction Center</i>
9:55 AM – 10: 15 AM	<b>FluDyNeMo</b> – Stephanie Bissel, <i>Variation in severity of interlobar lung pathology during influenza infection</i>
10:20 AM – 10:35 AM	Coffee Break
10:40 AM – 11:00 AM	<b>Fluomics</b> – Ivan Marazzi, <i>Protecting against inflammation-induced death</i>
11:05 AM – 11:25 AM	<b>Omics-LHV</b> – Ralph Baric, <i>Epigenetic Regulation during High Path Respiratory Virus infection</i>
11:30 AM – 11:50 AM	Panel-led Discussion
12:00 PM – 1:00 PM	Lunch

**Plenary Session 2 – Pilot Project Highlights**

**Moderators: Marciela Degrace & Michael Gribskov**

1:05 PM – 1:20 PM	<b>Omics4TB</b> – Eliza Peterson, <i>A systems analysis of bedaquiline tolerance in Mycobacterium tuberculosis</i>
1:25 PM – 1:40 PM	<b>MaHPIC</b> – Juan B. Gutierrez, <i>Massively parallel multi-omic time-series analysis</i>
1:45 PM – 2:00 PM	<b>Omics-LHV</b> – Larissa Thackray, <i>West Nile Virus Pathogenesis is Modulated by the Intestinal Microbiota</i>
2:05 PM – 2:20 PM	<b>Fluomics</b> – Sven Heinz, <i>Influenza infection perturbs the host genome 3D structure</i>
2:25 PM – 2:40 PM	<b>FluDyNeMo</b> – Lara Mahal, <i>Glycan response to influenza infection</i>
2:45 PM – 3:00 PM	Panel-led Discussion
3:00 PM – 3:15 PM	Coffee Break

**Plenary Session 3 – Short Talks (chosen from posters)**

**Moderators: Ziv Bar-Joseph & Andrew Patterson**

3:20 PM – 3:30 PM	<b>Omics4TB</b> – Sara Cohen, <i>Identifying regulatory networks that govern T cell exhaustion during tuberculosis</i>
3:35 PM – 3:45 PM	<b>MaHPIC</b> – Dean P. Jones, <i>Metabolomics analyses, for improved understanding monkey infections and human malaria cases across the globe</i>
3:50 PM – 4:00 PM	<b>Omics-LHV</b> – Jennifer Kyle, <i>Influenza Induced Dysregulation in Lipid Metabolism Revealed by Multi-Omics Analyses of Cell and Mouse Models of Infection</i>
4:05 PM – 4:15 PM	<b>Fluomics</b> – Leah Shriver, <i>Global Metabolomic Profiling of Influenza Infection</i>
4:20 PM – 4:30 PM	<b>FluDyNeMo</b> – Gabrielle Gussin, <i>Profiling the transcriptional activity of the respiratory tract microbiome in response to influenza in humans</i>
4:35 PM – 4:50 PM	Panel-led Discussion

5:00 PM – 6:30 PM **Poster Session (hors d'oeuvres, open bar)**  
**Room 440, 4<sup>th</sup> Floor, NYAM**

**Wednesday, April 13, 2016 – Library Reading Room, 3<sup>rd</sup> Floor, NYAM**

8:00 AM – 8:30 AM Breakfast

**Data & Modeling Meeting Updates**

**Moderators: Maria Giovanni & Teresa Hauguel**

8:30 AM – 8:50 AM	<b>Modeling Working Group</b> - Summary of Activities
8:55 AM – 9:15 AM	<b>Data Dissemination Working Group</b> - Summary of Activities
9:15 AM – 9:30 AM	Panel-led Discussion

**Plenary Session 1 – Extended Talks/Research Highlights**

**Moderators: Randy Albrecht & Karen Lacourciere**

- 9:30 AM – 9:50 AM **Omic4TB** – Alissa Rothchild, *Determining transcriptional networks regulating the response of alveolar macrophages to Mycobacterium tuberculosis*
- 9:55 AM – 10:15 AM **MaHPIC** – Shuzhao Li, *Metabolomic and transcriptomic analysis of Plasmodium vivax sporozoite challenge in Colombian volunteers, and potential with non-human primate studies*
- 10:20 AM – 10:40 AM **Omic-LHV** – Katrina Waters, *Data Integration to Decipher the Interplay between the Immune Response and Inflammation during Influenza Infection*
- 10:40 AM – 10:55 AM Coffee Break
- 10:55 AM – 11:15 AM **Fluomics** – David Jimenez-Morales & Judd Hultquist, *FluOMICs data integration for the identification of networks involved in host responses to influenza virus infection*
- 11:20 AM – 11:40 AM **FluDyNeMo** – Tao Ding, *Characteristics of the respiratory microbiota associated with disease severity in influenza infection*
- 11:40 AM – 12:00 PM Panel-led Discussion

**12:00 PM – 1:00 PM Final Remarks & Lunch (Steering Committee to meet separately in closed session lunch)**

- 1:05 PM – 2:30 PM Executive Session – Steering Committee/PIs/PMs/NIAID
- 2:35 PM – 4:00 PM Closed-door Session – Steering Committee/NIAID