



Issue #13 | November 2017

Welcome to the November 2017 edition of the MIDAS CIDID Newsletter. This is where you can find Center-wide updates, along with relevant news and highlights.



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## UPCOMING EVENTS



### **CIDID Seminar:**

Behnke Conference Room, Fred Hutch  
December 18, 2017, 10:30 - 11:30am

**Speaker:** [Martha Nelson](#)



**The 10th Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID)** takes place July 9-25, 2018, at the University of Washington in Seattle. Course descriptions and scholarship information will be available in January 2018 on the [SISMID website](#).

## RECENT PUBLICATIONS

[Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches](#)  
*JMIR Public Health and Surveillance* [[pdf](#)]

[Evolution-informed forecasting of seasonal influenza A \(H3N2\)](#)  
*Science Translational Medicine* [[pdf](#)]

[Resource-driven encounters among consumers and implications for the spread of infectious disease](#)  
*Royal Society Interface* [pdf]

[The RAPIDD Ebola forecasting challenge: Model description and synthetic data generation](#)  
*Epidemics* [pdf]

[Preliminary results of models to predict areas in the Americas with increased likelihood of Zika virus transmission in 2017.](#)  
*bioRxiv* [pdf]

[Simulations for Designing and Interpreting Intervention Trials in Infectious Diseases](#)  
*bioRxiv* [pdf] (in press *BMC Medicine*)

[The RAPIDD ebola forecasting challenge: Synthesis and lessons learnt](#)  
*Epidemics* [pdf]

[Dependency of Vaccine Efficacy on Pre-Exposure and Age: A Closer Look at a Tetravalent Dengue Vaccine](#)  
*Clinical Infectious Diseases* [pdf]

[Selection on non-antigenic gene segments of seasonal influenza A virus and its impact on adaptive evolution](#)  
*bioRxiv* [pdf] (in press *Virus Evolution*)

[Monte Carlo profile confidence intervals for dynamic systems](#)  
*Royal Society Interface* [pdf]

## CENTER UPDATES



Our research team at Northeastern University, headed by Alex

Vespignani, hosted a meeting of the **World Health Organization (WHO) Blueprint for Action to Prevent Epidemics** on October 30-31, 2017. This was a planning and research meeting for the vaccine trial modeling, design and analysis component of this large research effort organized and implemented by WHO. Several members of CIDID are involved in this process (pictured above: Ira Longini, Betz Halloran, and Alex Vespignani).

### **ASTMH Annual Meeting presentations - November 5-9, 2017.**

CIDID faculty Alex Vespignani and fellow SIS MID instructor Mauricio Santillana each presented talks during the session on big data and disease surveillance. CIDID trainees Tim Tsang, Diana Rojas, and Lauren Schwartz presented posters on dengue and rotavirus.

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New CIDID trainees:

- Tracy Dong is a graduate student at the University of Washington. Mentor: Jon Wakefield.
  - Deven Gokhale is a graduate student at the University of Georgia. Mentor: Pej Rohani.
  - Molly Gallagher is a postdoc at Emory University. Mentor: Katia Koelle.
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