



Issue #12 | June 2017

Welcome to the June 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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NEWS



WWW2017 Perth Conference - Best Paper Honorable Mention.

CIDID member Qian Zhang (pictured holding certificate) presented the paper titled "Forecasting Seasonal Influenza Fusing Digital Indicators and a Mechanistic Disease Model" at the 26th International World Wide Web Conference, 2017, in Perth Australia. Co-authors are Nicola Perra, Daniela Perotta, Michele Tizzoni, Daniela Paolotti, and Alessandro Vespignani. The team received Honorable Mention for Best Paper.

The research was featured by several news outlets, including [CNN Tech](#) and [NBC](#).

UPCOMING EVENTS



The **9th Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID)** takes place July 10-26, 2017, at the University of Washington in Seattle. So far, 204 individuals have registered for a total of 449 modules. Check the [SISMID website](#) for registration information.

RECENT PUBLICATIONS

[Multiplex PCR method for MinION and Illumina sequencing of Zika and other virus genomes directly from clinical samples](#)
Nature Protocols [[pdf](#)]

[Zika virus evolution and spread in the Americas](#)
Nature [[pdf](#)]

[Transmission Bottleneck Size Estimation from Pathogen Deep-Sequencing Data, with an Application to Human Influenza A Virus](#)
Journal of Virology [[pdf](#)]

[Spread of Zika virus in the Americas](#)
PNAS [[pdf](#)]

[Controlling cholera in the Ouest Department of Haiti using oral vaccines](#)
PLOS Neglected Tropical Diseases [[pdf](#)]

[Maternal pertussis immunisation: clinical gains and epidemiological legacy](#)
Eurosurveillance [[pdf](#)]

[Infectious Disease Dynamics Inferred from Genetic Data via Sequential Monte Carlo](#)
Molecular Biology & Evolution [[pdf](#)]

[Deep mutational scanning identifies sites in influenza nucleoprotein that affect viral inhibition by MxA](#)
PLOS Pathogens [[pdf](#)]

[Complete mapping of viral escape from neutralizing antibodies](#)
PLOS Pathogens [[pdf](#)]

CENTER UPDATES

CIDID postdoc Leora Feldstein will join CDC as an [Epidemic Intelligence Service \(EIS\)](#) officer, effective July 1, 2017. Leora will be part of CDC's Global Immunization Division.

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CIDID is once again supporting several summer undergraduate interns. Maggie Walters is a Research Experiences for Undergraduates (REU) intern at the University of Georgia, and Alexandria Wilson and Alex Hayes are participating in the Fred Hutch summer program.

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CIDID faculty participated in several recent WHO meetings:

- Betz Halloran, Ira Longini, Alex Vespignani, and Steve Bellan attended the meeting on "Designing a vaccine efficacy trial during Public Health Emergencies", May 1-2, 2017.
 - Betz Halloran, Ira Longini and Alex Vespignani attended a meeting on designing Zika vaccine trials on June 1-2, 2017.
 - Betz Halloran is on the Scientific Advisory Group for the WHO research and development blueprint for action to prevent epidemics, which held a teleconference meeting June 12, 2018.
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