CENTER FOR
INFERENCE & DYNAMICS
OF INFECTIOUS DISEASES

Issue #19 I August 2019

Welcome to the August 2019 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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RECENT PUBLICATIONS

Mapping person-to-person variation in viral mutations that escape polyclonal serum targeting influenza hemagglutinin
eLIFE [pdf]

Serostatus testing and dengue vaccine cost–benefit thresholds
Royal Society Interface [pdf]

Dengue genetic divergence generates within-serotype antigenic variation, but serotypes dominate evolutionary dynamics
eLIFE [pdf]

Age-structure and transient dynamics in epidemiological systems
Royal Society Interface

Recombinant vector vaccine evolution
PLOS Computational Biology [pdf]

Estimating the cost of illness and burden of disease associated with the 2014–2015 chikungunya outbreak in the U.S. Virgin Islands
PLOS Neglected tropical Diseases [pdf]

Within-host infectious disease models accommodating cellular coinfection, with an application to influenza
Virus Evolution [pdf]

Design of vaccine efficacy trials during public health emergencies
Science Translational Medicine [pdf]

A general framework for modelling the impact of co-infections on pathogen evolution
Royal Society Interface [pdf]

A Spatio-Temporal Modeling Framework for Surveillance Data of Multiple

Infectious Pathogens With Small Laboratory Validation Sets
American Statistical Association [pdf]

CENTER UPDATES

The tenth annual Clinic on the Meaningful Modeling of Epidemiological Data (MMED) was held May 27 - June 7, 2019 at the African Institute for Mathematical Sciences in Muizenberg, South Africa.
CIDID supported five participants:

- Alan Costello (Notre Dame)
- Sara Kada (CDC, Puerto Rico)
- Keerati Ponpetch (University of Florida)
- Enrique Saldarriaga (University of Washington)
- Quan Tran (Notre Dame)

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Betz Halloran received the 2019 Nathan Mantel Lifetime Achievement Award from the American Statistical Association. The award was presented on July 30 during a ceremony at the Joint Statistical Meetings in Denver, Colorado. Betz was honored for her landmark contributions to statistical methods for infectious disease epidemiology and her applications of those methods to important scientific problems.

Summer interns: CIDID supported two interns attending the University of Georgia Research Experiences for Undergraduates (REU) program (PI: John Drake).

- Juliana Taube worked with Dr. John Drake and graduate student Paige Miller in the Odum School of Ecology: "Who infected whom? Creating a database of transmission trees for comparative outbreak analysis".
- Zane Billings worked with Dr. Andreas Handel and graduate student Brian McKay in the UGA College of Public Health: "Is relative viral load an important metric for treatment and prognosis of influenza A?"

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