CENTER FOR
INFERENCE & DYNAMICS
OF INFECTIOUS DISEASES

Issue #16 | October 2018

Welcome to the October 2018 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: Pelton Auditorium,
Fred Hutch
December 4th, 2018, 2:00 - 3:00pm

Speaker: **Caroline Colijn**
Predicting strain interactions and success with genomic data: approaches from modelling and machine learning

CIDID Seminar: Pelton Auditorium,
Fred Hutch
January 16, 2019, 10:30 - 11:30am

Speaker: **Kanta Subbarao**
Seasonal and Pandemic Influenza Vaccines: Principles and Challenges

The **11th Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID)** takes place July 8-24, 2019, at the University of Washington in Seattle. Registration and other information will be available on the SISMID website.

RECENT PUBLICATIONS

Genomic epidemiology supports multiple introductions and cryptic transmission of Zika virus in Colombia
bioRxiv [pdf]

Epidemiology of the silent polio outbreak in Rahat, Israel, based on modeling of environmental surveillance data
Proceedings of the National Academy of Sciences [pdf]

Causes and consequences of spatial within-host viral spread
Preprints [pdf]

Designing a Study of Correlates of Risk for Ebola Vaccination
bioRxiv [pdf]

Deep mutational scanning of hemagglutinin helps predict evolutionary fates of human H3N2 influenza variants
Proceedings of the National Academy of Sciences [pdf]

Heterogeneity and longevity of antibody memory to viruses and vaccines
PLoS Biology [pdf]

Consistency and convergence rate of phylogenetic inference via regularization
Annals of Statistics [pdf]

Intermediate levels of vaccination coverage may minimize seasonal influenza outbreaks
PLoS One [pdf]

Forecasting the effectiveness of indoor residual spraying for reducing dengue burden
PLoS Neglected Tropical Diseases[pdf]

CENTER UPDATES

Alex Vespignani received the 2018 Senior Scientific Award, and the Service Award, from the Complex Systems Society. Alex was recognized for his "outstanding contributions to Complex Systems & Network sciences during the last 25 years, including seminal works on the Statistical Physics of Fracture Processes, Self-Organized and Out-of-Equilibrium Systems, Digital and Network Epidemiology and Computational Social Sciences."

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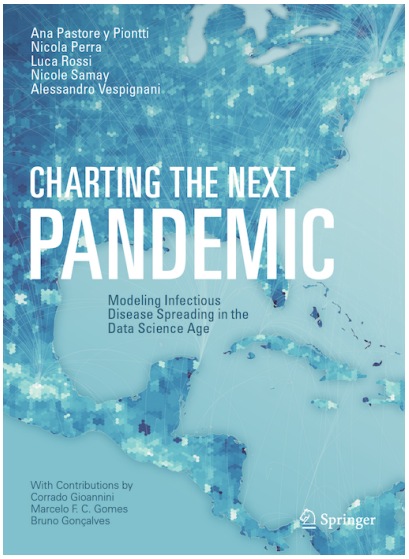

New books out by CIDID members - available soon.
"Charting the Next Pandemic" by Ana Pastore y Piontti, Nicola Perra, Luca Rossi, Nicole Samay, Alex Vespignani and others; and
"Pertussis: Epidemiology, Immunology, and Evolution", edited by Pej Rohani and Samuel Scarpino.

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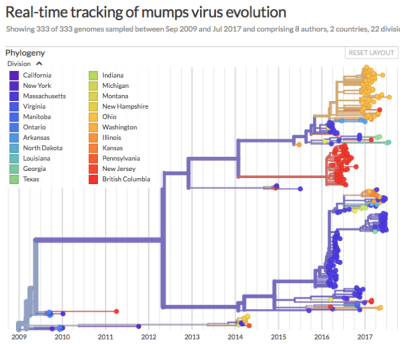

New mumps genomes are up on nextstrain.org. And read the blog post about mumps virus introduction into Washington State, by Louise Moncla and Alli Black.

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Ira Longini will attend upcoming meetings in November:

- “Present and Future of Dengue Vaccines,” November 1-2. Satellite meeting to the Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, Louisiana
- “Preparing for Lassa vaccine clinical trials with targeted epidemiology studies,” November 8-9. Noguchi Medical Research

Institute, Legon, Accra, Ghana. Sponsored by The Coalition for Epidemic Preparedness Innovations (CEPI).

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CIDID trainee updates:

- Kidus Asfaw is a new CIDID trainee. He is a graduate student working with Ed Ionides at the University of Michigan.
- Jon Fintzi (University of Washington) will start work in January 2019 as a Mathematical Statistician in the Biostatistics Research Branch, at the National Institute of Allergy and Infectious Diseases (NIAID). Jon is co-advised by Vladimir Minin and Jon Wakefield.

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