



CENTER FOR
INFERENCE & DYNAMICS
OF INFECTIOUS DISEASES

Issue #15 | June 2018

Welcome to the June 2018 edition of the MIDAS CIDID Newsletter. This is where you can find Center-wide updates, along with relevant news and highlights.



CIDID Website

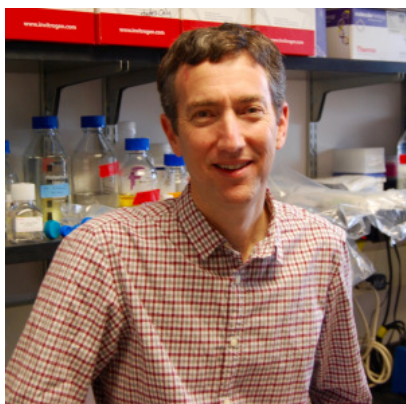


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UPCOMING EVENTS



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. Registration information is available on the [SISMID website](#).



**CIDID Seminar: Pelton Auditorium,
Fred Hutch
August 7, 2018, 10:00 - 11:00am**

Speaker: [Adam Lauring](#)
Influenza Evolution... Getting Personal
Live video stream and recording available: [\[link\]](#)

RECENT PUBLICATIONS

[Transmission-clearance trade-offs indicate that dengue virulence evolution depends on epidemiological context](#)
Nature Communications [[pdf](#)]

[Transmissibility of Norovirus in Urban versus Rural Households in a Large Community Outbreak in China](#)
Epidemiology [[pdf](#)]

[Quantifying the risk of local Zika virus transmission in the continental US during the 2015-2016 ZIKV epidemic](#)
[bioRxiv \[pdf\]](#)

[How single mutations affect viral escape from broad and narrow antibodies to H1 influenza hemagglutinin](#)
[Nature Communications \[pdf\]](#)

[Deep mutational scanning of hemagglutinin helps predict evolutionary fates of human H3N2 influenza variants](#)
[bioRxiv \[pdf\]](#)

[Influenza A\(H7N9\) Virus Antibody Responses in Survivors 1 Year after Infection, China, 2017](#)
[Emerging Infectious Diseases \[pdf\]](#)

[The impact of past vaccination coverage and immunity on pertussis resurgence](#)
[Science Translational Medicine \[pdf\]](#)

[High dimensional random walks can appear low dimensional: Application to influenza H3N2 evolution](#)
[Journal of Theoretical Biology \[pdf\]](#)

[Spatio-temporal coherence of dengue, chikungunya and Zika outbreaks in Merida, Mexico](#)
[PLoS Neglected Tropical Diseases \[pdf\]](#)

[Design of vaccine trials during outbreaks with and without a delayed vaccination comparator](#)
[Annals of Applied Statistics \[pdf\]](#)

[Modeling and Inference for Infectious Disease Dynamics: A Likelihood-Based Approach](#)
[Statistical Science \[pdf\]](#)

CENTER UPDATES

Twenty years of West Nile Virus in North America

Showing 623 of 623 genomes, from 2 countries, from 142 divisions, from 38 states, from 25 authors, from 3 wnv_strains, dated Dec 1998 to Oct 2017.



Nextstrain continues to expand its repertoire of pathogens. Recently added are West Nile Virus and Lassa virus.

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Jesse Bloom has been named a Howard Hughes Medical Institute Investigator. HHMI provides investigators with seven years of guaranteed funding. This year, 19 new investigators were selected from a pool of 675 eligible applicants.

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Alex Vespignani is one of seven scientists selected as the inaugural 2018 Network Science Society Fellows.

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Ebola outbreak in DRC: CIDID members have been contributing to the response to the latest ebola outbreak. Ira Longini, Betz Halloran, and Alex Vespignani and his team at NEU are members of an Ebola Modeling Collaboration. Ira Longini and Madhura Rane presented at the WHO Ebola vaccine SAGE working group in Geneva on June 4-5. As a member of the Scientific Advisory Group, Betz Halloran attended by teleconference the June 6 R&D Blueprint DRC Ebola research plan meeting. Ira, Betz and Natalie Dean participated in the June 7 call on the Blueprint Ebola vaccine trial designs.

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Trevor Bedford gave a talk at the Advanced Molecular Diagnostics Seminar at the CDC held May 23, on "Real-time tracking of virus evolution".

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Aaron King, Pej Rohani, and Marisa Eisenberg were all invited speakers at the workshop on Disease Ecology & Eco-epidemiology held at the Mathematical Biosciences Institute at Ohio State during 26-30 March. Aaron's talk is entitled 'Phylodynamics done “properly”: from sequences to dynamics via Sequential Monte Carlo'. He will present a variation on this theme at the Western North American Region of the International Biometric Society (WNAR) meeting in Edmonton from 24-27 June at the University of Alberta.

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Betz Halloran and Jon Wakefield are invited speakers at workshops on "Causal Inference in the Presence of Dependence and Network Structure", organized by Centre de Recherches Mathématiques and held June 11 - July 6 in Montreal. CIDID trainee Tracy Dong also attended one of the workshops.

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CIDID trainee news:

- Juhye Lee received an F30 National Research Service Award (NRSA) Fellowship from the National Institute of Allergy and Infectious Diseases. Juhye is a University of Washington student, mentored by Jesse Bloom at Fred Hutch.
 - Navideh Noori will start work in August as a Research Scientist at the Institute for Disease Modeling in Bellevue, WA. Navideh is a postdoc at the University of Georgia, working with Pej Rohani.
 - Tracy Dong was accepted into the Summer Internship Program at the Institute for Disease Modeling in Bellevue, WA. Tracy is a University of Washington student, mentored by Jon Wakefield.
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CIDID summer interns:

Participating in the Population Biology of Infectious Diseases REU Site

at the University of Georgia:

- Kailene Richbow Dozier (Virginia Union University)
Mentor: Kelly Dyer
- Jason Soriano (University of California Berkeley)
Mentor: Nicole Gottdenker

Participating in the Fred Hutch Summer Undergraduate Research Program (SURP):

- Matthew Hays (Colorado Mesa University)
Mentor: Ollivier Hyrien

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