



CENTER FOR
INFERENCE & DYNAMICS
OF INFECTIOUS DISEASES

Issue #3 | August 2015

Welcome to the August 2015 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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Photograph: Alphanso Appleton

Ira Longini is a trial team member of the WHO-sponsored Guinea Ebola ring vaccination trial, and second author of the paper published in The Lancet on July 31, announcing the exciting initial results.

The news made headlines worldwide, and [this article](#) in The Guardian

is one of many that highlighted the success of the trial. According to Ira, 'some people are saying that the trial is probably the leading public health accomplishment in the last year'.

UPCOMING EVENTS

CIDID Seminars: Two international speakers will present at the Pelton Auditorium at Fred Hutch in Seattle. Information below - full details to follow in the next newsletter.

October 2, 2015, 10:30am
Jennifer Gardy will talk about "genomic epidemiology" and using sequencing to track epidemiological connections.

November 6, 2015, 10:30am
Richard Neher will be speaking on within-host HIV evolution.

RECENT PUBLICATIONS

Efficacy and effectiveness of an rVSV-vectored vaccine expressing Ebola surface glycoprotein: interim results from the Guinea ring vaccination cluster-randomised trial, *The Lancet* [[pdf](#)]

The ring vaccination trial: a novel cluster randomised controlled trial design to evaluate vaccine efficacy and effectiveness during outbreaks, with special reference to Ebola, *BMJ* [[pdf](#)]

Masking of antigenic epitopes by antibodies shapes the humoral immune response to influenza, *Philosophical Transactions B* [[pdf](#)]

nextflu: Real-time tracking of seasonal influenza virus evolution in humans, *Bioinformatics* [[pdf](#)]

One versus two doses: What is the best use of vaccine in an influenza pandemic?, *Epidemics* [[pdf](#)]

Unraveling the Transmission Ecology of Polio, *PLOS Biology* [[pdf](#)]

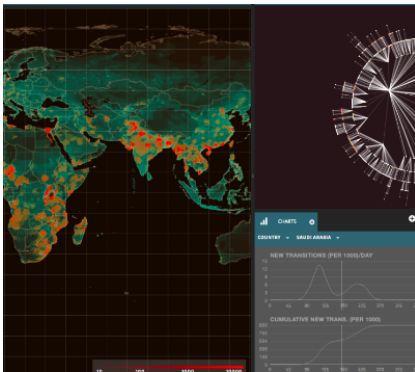
Synonymous and nonsynonymous distances help untangle convergent evolution and recombination, *Statistical Applications in Genetics and Molecular Biology* [[pdf](#)]

NEWS



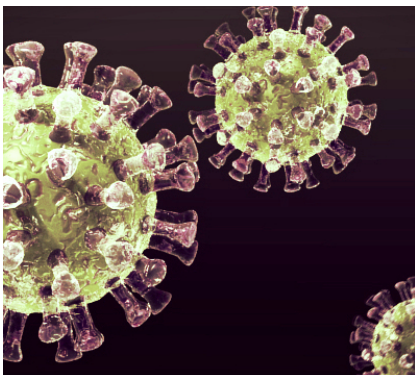
and John Drake attended the workshop convened by the White House Office of Science and Technology Policy: “Integrating Forecasting Models for Decision-making: A National Strategy”.

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GLEAMviz version 6.5 is out: announcing the Visualisation Dashboard

gleamviz.org



Realistic risks: The communication of risk in disease outbreaks is too often neglected; that must change.

nature.com

CENTER UPDATES

The CIDID Polio Endgame Workshop took place July 1-2, 2015 at Fred Hutch. Participants included people from four modeling groups, WHO, CDC, Gates Foundation, Israel, among others. Plans for environmental surveillance are a top priority. A report will be available soon. Thanks to Jim Koopman, David Hutton, Marisa Eisenberg, and Katia Koelle for great organization and Rebecca Allen for logistics.

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The 7th Summer Institute for Statistics and Modeling in Infectious Diseases (SISMID) took place July 6-22, 2015 at the University of Washington. The 15 2.5-day courses were successful. Stay tuned for

details of the 8th SISIMID in July 2016.

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Stephanie Shadbolt has joined CIDID as Associate Director/Outreach Coordinator.

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New CIDID Trainees:

- UW Epidemiology PhD student Allison Black has joined Trevor Bedford's lab.
 - Carles Breto will start on September 1 as a postdoc at Michigan, working with Ed Ionides.
 - Lam Ha, an incoming grad student from the Oxford University Clinical Research Unit in Ho Chi Minh City, will work on Research Project 4 with Katia Koelle at Duke.
 - UW Statistics PhD student Jason Xu will work on CIDID projects with Vladimir Minin.
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The CIDID summer undergraduate trainees have completed their programs. Sydney Barosko, Taylor Joseph, Sofia Bertolini Meli and Nikki Solano participated in the REU program at UGA. Charlton Callender participated in the SURP program at Fred Hutch [[view poster](#)].

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CIDID postdoc Amanda Koepke won one of the 2015 Young Investigator Awards from the Statistics in Epidemiology Section of the American Statistical Association, for her paper "Predictive modeling of cholera outbreaks in Bangladesh," co-authored with Ira Longini, Betz Halloran, Jon Wakefield, and Vladimir Minin.

arxiv.org

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