New Frontiers in Digital Influenza Surveillance: Web data and mobile-phone connected diagnostic tests

Thursday 26th June 2014
The Council Room, The Institute of Materials, 1 Carlton House Terrace, London SW1Y 5DB

Organised by the EPSRC IRC in Early Warning Sensing Systems for Infectious Diseases (i-sense) and the Infectious Diseases Research Network (IDRN)

8.30 Registration
9.00 Welcome
Rachel McKendry
Professor in Nanotechnology and Director of the EPSRC IRC in early-warning sensing systems for infectious diseases, UCL

Session 1 – Clinical needs

09:10 Talk Title TBC
Mike Catchpole
Director of the Centre for Infectious Disease Surveillance and Control Public Health England

09.35 Lessons learnt for surveillance of seasonal and pandemic influenza from the Flu Watch community cohort
Andrew Hayward
Reader in Infectious Disease Epidemiology, Department of Infection & Population Health, UCL

Session 2 – Web data

10.00 Digital Disease Detection
John Brownstein
Associate Professor of Pediatrics, Harvard Medical School and Co-founder of HealthMap

10.25 Break

11.00 Talk Title TBC
Christian Stefansen
Computer Engineer, Google Flu Trends

11.25 Talk Title TBC
Ingemar Cox
Professor and Director of Research in the Department of Computer Science, UCL
11.50 Using the internet to track influenza
John Edmunds
Professor of Infectious Disease Modelling in the Department of Infectious Disease Epidemiology, LSHTM

What big data and the Mexican pandemic taught us
12.15 Nuria Oliver
Scientific Director for the Multimedia and Data Mining & User Modeling Research Teams, Telefonica research

12.40 Panel Discussion

13.10 Lunch and poster viewing

Session 3– Mobile phone-connected diagnostics

14.10 Smart phone connected biosensors for infectious disease testing
Dale Athey
Chief Executive Officer, OJ Bio

14.35 Mobile diagnostics for human health
Samuel Sia
Associate Professor of Biomedical Engineering, Columbia University

15.00 Accepted Abstract

15.15 Break

15.45 Talk Title TBC
Molly Stevens
Professor of Biomedical Materials and Regenerative Medicine and the Research Director for Biomedical Material Sciences
Imperial College London

16.10 Democratization of Next-Generation Imaging, Diagnostics and Measurement Tools using Mobile Phones
Aydogan Ozcan
Chancellor's Professor, Electrical Engineering, UCLA
Associate Director, California NanoSystems Institute

16.35 Panel Discussion

17.00 Networking reception

18.15 Close