International Symposium on Health Analytics and Disease Modeling (HADM 2018)

Date: March 8-9, 2018

Venue: National Academy of Medical Sciences Auditorium, Ansari Nagar, New Delhi, India

Co-Organizers: Public Health Dynamics Laborator (PHDL), University of Pittsburgh, USA
ICMR – National Institute of Medical Statistics (NIMS), New Delhi, India

AGENDA

Day 1:
Thursday, March 8, 2018

8:00 a.m. Registration

9:00 a.m. Welcome
Director, ICMR-National Institute of Medical Statistics (NIMS)

9:10 a.m. Opening Remarks
Secretary, Department of Health Research & Director General, ICMR

9:20 a.m. Symposium Inauguration
Additional DG, ICMR

9:30 a.m. Keynote Talk
Mathematical Modeling as a Tool for Improving Population Health
Prof. Mark Roberts, University of Pittsburgh, USA

10:30 a.m. Tea Break

10:45 a.m. Plenary Talk
Modeling of High-dimensional Human Immuno-phenotypic Diversity
Prof. Saumyadipta Pyne, University of Pittsburgh, USA

11:30 a.m. Invited Talk
Modeling Epidemiological and Economic Impact of Vaccines
Dr. Kaja Abbas, London School of Hygiene & Tropical Medicine, UK

12 p.m. Invited Talk
DHR/ICMR Virus Research and Diagnostic Laboratory Network: Analysis of Dengue Surveillance Data
Dr. Manoj Murhekar, ICMR-National Institute of Epidemiology (NIE), Chennai, India
12:30 p.m.  Lunch

1:30 p.m.  Plenary Talk
Improving Data Access and Standardization for Epidemic Modeling in Global Health
Dr. Wilbert van Panhuis, University of Pittsburgh, USA

2:15 p.m.  Invited Talk
Turning Traditional Surveillance Systems into Big Data: Vietnam as a Case Study
Dr. Marc Choisy, University of Montpellier, France

2:45 p.m.  Invited Talk
Climate and Dengue Modeling: A Big Data Analytics Perspective
Dr. Daphne Lopez, Vellore Institute of Technology, Vellore, India

3:15 p.m.  Invited Talk
Climatic and Socio-economic Factors of Dengue Transmission in a City Like Delhi
Dr. Olivier Telle, Centre for Policy Research, New Delhi, India

3:45 p.m.  Tea Break

4:00 p.m.  Special Talk
Importance of HADM 2018 in Positioning Our Health Systems Research Appropriately
Prof. Nirmal Kumar Ganguly, Translational Health Science and Technology Institute (THSTI), Faridabad, India

4:30 p.m.  Panel Discussion
Communicable Disease Modeling
Chair: Prof. Nirmal Kumar Ganguly, THSTI
Discussants: Prof. Arvind Pandey, ICMR-NIMS and Dr. Harpreet Singh, ICMR-NIMS, India

5:00 p.m.  Day 1 Adjourns
Day 2:
Friday, March 9, 2018

9:30 a.m.  
**Keynote Talk**  
*Forecasting Epidemics*  
Prof. Roni Rosenfeld, Carnegie Mellon University, USA

10:30 a.m.  
**Tea Break**

10:45 a.m.  
**Plenary Talk**  
*A Mathematical Model of CD8 T Cell Responses Calibrated with Human Yellow Fever Vaccine Data*  
Prof. Carmen Molina-Paris, University of Leeds, UK

11:30 a.m.  
**Invited Talk**  
*A Stochastic Multi-scale Model for Mechanisms of Infection*  
Dr. Martin Lopez-Garcia, University of Leeds, UK

12:00 p.m.  
**Invited Talk**  
*Complexity of Infectious Disease Modeling for Malaria Prediction*  
Dr. Himanshu K. Chaturvedi, ICMR-NIMS, New Delhi, India

12:30 p.m.  
**Lunch**

1:30 p.m.  
**Plenary Talk**  
*TBA*  
Prof. Randeep Guleria, All India Institute of Medical Sciences (AIIMS), New Delhi, India

2:15 p.m.  
**Invited Talk**  
*How Uncertainties Present Challenges for Statistical Modelers*  
Prof. Abhaya Indrayan, Delhi University, New Delhi, India

2:45 p.m.  
**Invited Talk**  
*Big Data Analytics in Nutrition and Health*  
Dr. M. Vishnu Vardhana Rao, ICMR-NIMS, New Delhi, India

3:15 p.m.  
**Invited Talk**  
*Small Area Estimation in Health Sector by Combining Demographic Health Survey and Census Data*  
Dr. Hukum Chandra, Indian Council of Agricultural Research (ICAR)-Indian Agricultural Statistics Research Institute (IASRI), New Delhi, India
3:45 p.m.   **Tea Break**

4:00 p.m.   **Special Talk**
   **TBA**
   Prof. R.M. Pandey, AIIMS, New Delhi, India

4:30 p.m.   **Panel Discussion**
   **Health Informatics for Non-communicable Diseases**
   Chair: Dr. D.K. Shukla, ICMR-NIMS, New Delhi, India
   Discussants: Prof. R.M. Pandey, AIIMS, New Delhi, India
               Dr. Prashant Mathur, ICMR-NCDIR, Bengaluru, India
               Dr. P.S. Reddy, University of Pittsburgh, USA

5:00 p.m.   **Wrap-Up**
   Dr. Clareann Bunker, University of Pittsburgh, USA

   **Vote of Thanks**
   Dr. Ajit Mukherjee, ICMR-NIMS, New Delhi, India

5:15 p.m.   **Symposium Adjourns**