

International Lounge+ July 8th at 7pm in the
“Kunstmuseum” in Maximilianstraße 33 (Att.: Entrance
around the corner from Oskar in Brautgasse)



Disease forecast: *mapping the geographic potential of disease spread under current and future climate*

Abstract:

The world is presently experiencing the most serious known outbreaks of several arboviruses and other neglected tropical diseases. We identify disease transmission scenarios and present a set of analyses to develop disease risk maps. These maps are used to detail transmission risk in multiple dimensions and fill gaps of knowledge in vector surveillance and control programs. We examine several case studies for diseases that strike many populations across the world and cause higher rates of morbidity and mortality among these populations.

Dr. Abdallah Samy

Biography:

Dr. Samy completed his doctoral degree and was awarded honors in the Department of Ecology and Evolutionary Biology at the University of Kansas, USA with competitively obtained funding from the Fulbright Program. He works as a lecturer and research scientist in Ain Shams University, Cairo, Egypt. His research addresses several questions at the interface of ecology, epidemiology, public health, and global health. He is broadly interested in studying zoonosis, arboviral epidemiology, and the climate change influences on disease dynamic and spread. His lab uses an interdisciplinary and multi-faceted approach to research questions, typically using a combination of field and lab experiments, geographic information system, remote sensing, ecological modeling, and phylogeography. His current work on arboviruses and mosquito-borne diseases is focused on developing disease forecast, understanding the major drivers of disease spread, and identifying the possible shifts at disease risk in response to global warming.

His research was published by several prestigious scientific journals like Lancet, Lancet Infectious Diseases, and PLOS Neglected Tropical Diseases. Dr. Samy received the 2012 Fulbright Fellowship, and the 2014 Young Investigator Award of the American Society of Tropical Medicine and Hygiene (ASTMH). He is also a member of several international projects including the EU MediLabSecure Project and the African Research Network for Neglected Tropical Diseases.

