

DEFINING THE LANDSCAPE OF HOST DEFENCES AGAINST EMERGENT VIRUSES



MOLECULAR VIROLOGY DEPARTMENT OF INFECTIOUS DISEASE
FACULTY OF MEDICINE
IMPERIAL COLLEGE LONDON

ASSISTANT PROFESSOR LAURA MARTIN- SANCHO

CHAIRPERSON: ASSOCIATE PROFESSOR SYLVIE ALONSO



Abstract:

The outcome of viral infections is significantly influenced by the interaction between viruses and cell-autonomous host defences. Using systems virology, my lab has uncovered the landscape of antiviral proteins that block the replication of several emerging viruses, including dengue. In this talk, I will discuss our ongoing efforts to map these antiviral proteins, highlighting their potential as predictors of severe disease, barriers to interspecies transmission, and promising targets for much needed antiviral therapies.

Biography:

Laura Martin-Sancho is an Assistant Professor at Imperial College London. As part of her training, she received a PhD in Molecular virology from the Max Planck Institute for Infection Biology in Germany and pursued a postdoctoral training in Systems Biology at the Scripps Research Institute in the USA. Her primary research interests are understanding virus-host interactions that underlie pathogenesis of emergent viruses, with a major focus on dengue and other mosquito-transmitted viruses.