



Host-Virus Dynamics in Arboviral Persistence: From Molecular Mechanisms to One Health Strategies

Auditorium Palazzo Blu, Pisa 10/06/2025

09.00 – **M. Pistello**, University of Pisa
Welcome and opening remarks

Chairs:

C. Castilletti, IRCCS Ospedale Sacro Cuore Don Calabria (VR)
C. Rizzo, University of Pisa

09.10 – **C. Rizzo**, University of Pisa
Managing arbovirus epidemics: a public health preparedness perspective

09.35 – **C. Castilletti**, IRCCS Ospedale Sacro Cuore Don Calabria (VR)
Exploring interactions between Oropouche virus and host

10.00 – **G. Matusali**, National Institute for Infectious Diseases “Lazzaro Spallanzani” IRCCS
The urogenital tract as a target of arboviruses: investigating the dynamics of host-virus interactions

10.25 – **G. Teti**, SCYLLA Biotech, Messina
Immune Activation Driven by TNF-alpha: a Role in anti-ZIKV Defenses?

10.50 – 11.20 Break

Chairs:

M. Gariglio, University of Eastern Piedmont
E. Vicenzi, IRCCS San Raffaele Hospital, Milan

11.20 – **M. Cortese**, Fondazione Telethon ETS, Naples
The role of lipids in viral replication: how RNA viruses exploit host resources

11.45 – **C. Borgogna**, University of Eastern Piedmont
IFI16: A key modulator of RNA virus replication and antiviral defense

12.10 – **E. Vicenzi**, IRCCS San Raffaele Hospital, Milan
Studying viral persistence in macrophages infected with arboviruses and development of an assay for evaluating antiviral efficacy

12.35 – **M. Pizzato**, University of Trento
SERINC5 Antagonism and Host Cell Specificity in Dengue and TBE Viruses

13.00 - 14.00 Lunch break

Chairs:

G. Antonelli, University “La Sapienza”, Rome
F. Forneris, University of Pavia

14.00 – **A. Marcello**, International Centre for Genetic Engineering and Biotechnology (ICEGB), Trieste
The UPR and ISR responses in flavivirus infection

14.25 – **F. Forneris**, University of Pavia
Drug discovery in the AlphaFold era

14.50 – **M. Lai**, University of Pisa
Engineering and delivering CRISPR to combat known and emerging viruses

15.15 – **M. L. Tornesello**, National Cancer Institute “Fondazione Pascale”, Naples
Comprehensive profiling of antiviral antibody epitopes: potential application in viral-related diseases

15.40 – 16.10 Break

Chairs:

P. Martinez-Orellana, ICEGB, Trieste
G. Sciandrone, University of Pisa

16.10 – **P. Martinez-Orellana** ICEGB, Trieste
Tick-borne encephalitis virus infection of neuron, microglia and astrocytes: pro inflammatory response and cGAS pathway

16.20 – **G. Sciandrone**, University of Pisa
N-acyl ethanolamines metabolism and Flaviviruses

16.30 – **F. Grasso**, SCYLLA Biotech, Messina
An immunocompetent mouse model to study ZIKV pathogenesis

16.40 – **E. Plicanti**, University of Pisa
Characterization of a flavivirus-inhibitory compound implicating Reticulon 3 as a potential host factor

16.50 – **M. Pistello**, University of Pisa
Farewell and closing remarks

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