

TWINCORE – Seminar

Thursday April 23rd, 2015, 5 p.m.
TWINCORE Lecture Hall

„Cell biology of bunyavirus transmission and entry“



Dr. Pierre-Yves Lozach

The *Bunyaviridae* constitute a large family of enveloped animal viruses, many of which cause serious diseases in humans. Due to their transmission by arthropod vectors, these viruses are seriously taken as emerging agents of disease. Currently there are no available vaccines or treatments approved for human use. However it remains unclear, at the molecular level, how these viruses enter and infect mammalian host cells. In the lab, we are using the bunyavirus Uukuniemi as a model because it is safe to work with and allows approaches such as live cell imaging nearly impossible for pathogenic bunyaviruses, most of which must be handled in high biosafety laboratories. Within this seminar, early bunyavirus-host cell interactions will be addressed based on the analysis of Uukuniemi virus entry by state-of-the-art fluorescence-based techniques in fixed and living cells.

Who is Pierre-Yves Lozach?

CellNetworks Junior Group Leader with 5-years CellNetworks Research Group funds at the Department of Infectious Diseases, UniversitätsKlinikum Heidelberg, Germany.

Before:

- Head of the lab 'Cell Biology of Arboviral Infections', Institut Armand-Frappier (Institut Pasteur International Network), Canada
- Senior Research Associate; Laboratory of Ari Helenius, ETH Zürich, Switzerland.

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