

TWINCORE - Seminar

Tuesday May 10th, 2016, 5 p.m.
TWINCORE Lecture Hall

„Can structural and functional data help the design of antiviral compounds targeting the RNA polymerase complex of RSV?“



Dr. Jean-François Éléouët

The main objective of his group is to study the structure and the functioning of the RNA dependent RNA polymerase (RdRp) of Respiratory Syncytial Virus. The goal is to better understand how RSV replicates, transcribes its genes and, based on these data, to develop antiviral compounds. They have mapped and characterized protein-protein interaction domains between the different components of the RdRp complex; they try to resolve the atomic structure of these proteins in collaboration with crystallographers and NMR spectroscopists. They are searching for cellular partners of the RdRp; have developed an RSV minigenome with a luciferase reporter gene for functional analysis of the RdRp in living cells and have developed their own reverse genetics system.

Who is Jean-François Éléouët?

- Senior scientist at INRA, Unité de Virologie et Immunologie Moléculaires (VIM), Jouy-en-Josas, France.

The INRA Research Center at Jouy-en-Josas is a unique space located in Ile-de-France region, offering research on food, animals, and microorganisms, affirmed and supported by mathematics. The Jouy Research Center is the largest INRA center in France: 820 permanent INRA employees work there along with 430 from other partner organizations and more than 250 on fixed-term contracts.

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