SFB 900

SFB 900 SEMINAR SERIES

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TITLE

Alpaca Nanobodies as Tools to Study the Cell Biology of Infection and Immunity

SPEAKER

Florian I. Schmidt, PhD
Institute of Innate Immunity, University of Bonn, Germany

LOCATION

Lecture Hall Q, Building J6
MHH, Carl-Neuberg-Str. 1
Hannover

03.05.2018

5.00 PM (s.t.)

» Research of Florian I. Schmidt:

Our Emmy Noether research group seeks to uncover how the inflammatory response against pathogens and other signatures of danger accomplishes its major goals at the molecular level: Exquisite sensitivity at maximum safety.
We investigate how virus infection triggers the assembly of inflammasome complexes in various cell types. To delineate common strategies, we compare the responses to DNA and RNA viruses including herpesviruses (HSV-1), orthomyxoviruses (influenza A virus), poxviruses (vaccinia virus), and rhabdoviruses (vesicular stomatitis virus). Custom-made alpaca single domain antibodies (nanobodies or VHHs) will be used to perturb, visualize and ultimately understand immunological signaling cascades in the responding cell types at endogenous protein levels.

Prof. Beate Sodeik
MHH
Tel.: 0511 532-2846
Sodeik.Beate@mh-hannover.de

Dr. Eugenia Gripp, MHH
Institute of Virology
Tel.: 0511 532-4107
SFB900.Sekretariat@mh-hannover.de