

SFB 900 SEMINAR SERIES

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TITLE

Temporal and spatial regulation of host immunity to HSV-1 infection

SPEAKER

Dr. Chris Boutell
University of Glasgow, Centre for Virus Research, Glasgow, UK

LOCATION

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



30.11.
2017

5.00 PM (s.t.)

» Research of Chris Boutell:

Ubiquitin and ubiquitin-like modifications play a critical role in the regulation of many cellular pathways; including protein stability, the cell cycle, transcription, DNA repair and antiviral immunity. Consequently, many human viruses have evolved strategies to utilise or suppress ubiquitin and ubiquitin-like pathways during infection in order to enhance their replication. My research aims to define how viruses engage with these modification pathways with respect to cellular antiviral immunity, both at the molecular and biochemical level, in order to develop novel avenues for future therapeutic intervention.

Current work within the laboratory focuses on two modification pathways, namely ubiquitin and SUMO (Small Ubiquitin-like MOdifier), which have been shown to play important roles in the activation and regulation of various aspects of intracellular immunity during virus infection. We study this virus host-cell interface using a number of clinically important viruses, including herpes simplex virus type-1 (HSV-1), hepatitis C virus (HCV), and influenza virus.

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