

SFB 900 Seminar Series

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TITLE

ABC of adenovirus receptors: implications for tropism, treatment, and targeting

SPEAKER

Prof. Niklas Arnberg
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LOCATION

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



12.12.
2019

5.00 PM (s.t.)

» Research of Niklas Arnberg

The main interest of our group is to explore the molecules and mechanisms involved in the early stage of the viral life cycle: attachment and entry. This is a critical step in the life cycle that sometimes determine the tropism of the virus (i.e. which cells, tissues and organs that are infected), but is also essential for subsequent replication and transmission to other cells and to other hosts. A main goal of our research is to explore this step in order to identify novel antiviral drug targets acting outside host cells. Thus, the main mission of our group is to identify the interacting molecules on surface of host cells and on virus particles, and to characterize these interactions in detail.

We have identified cellular receptors for several members of the Adenoviridae and Picornaviridae families. We have also developed an antiviral drug candidate for treatment of ocular adenoviruses, which is now in phase IIa clinical trials.