Lecture Series & Workshops 2019-2021

From Single Organisms to Systems Ecology and Evolution

Extracellular Vesicles: tiny packages for host and pathogen communication

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- 2nd of September 2020, 12 PM
- Link to the Cisco Webex online meeting

For individual meetings with Dr. Nolte-'t Hoen, please **register** by mail to secretary@microbiology.lu so that we can initiate the contact.

In the last decade we have seen an enormous rise in interest in extracellular vesicles (EV) as a conserved means of intercellular communication. Because EV are regarded as 'snapshots' of cells and reflect the molecular contents of their parental cell, there is also a large interest in using EV in body fluids as biomarkers for disease. Our research focuses on the role of extracellular vesicles in communication between immune cells and in host-pathogen interactions.

In this presentation, I will give an introduction on EV and explain why these signaling entities are in the limelight of attention of researchers, clinicians and the industry. I will also explain why recognition and in-depth analysis of EV heterogeneity using advanced (nano)technology is essential to delineate the structure and function of EV. Moreover, I will discuss the role of EV in host-pathogen interaction with a specific focus on virus infections.

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