

SFB 960-/BZR – Kolloquium

10. Mai 2019, 10:00 Uhr

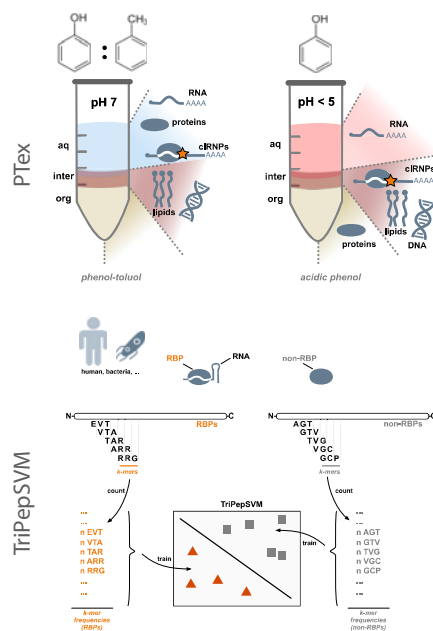
VKL 5 1.31 (Seminarraum Biochemie I)



Dr. Benedikt Beckmann

IRI for the Life Sciences, Berlin

Novel Methods to Study RNA-Protein Interactions During Bacterial Infection



During bacterial infection, both the host and the pathogen employ post-transcriptional regulation of gene expression to dynamically affect immune responses and virulence. Until now, this regulation has been mainly studied focusing on bacterium or host cell independently.

The Beckmann lab is investigating the potential of the bacterial pathogen *Salmonella typhimurium* to use non-coding RNA and RNA-binding proteins to directly manipulate host cells on a post-transcriptional level. Benedikt will present the latest progress from his lab in the analysis of ribonucleoprotein complexes (RNPs), including:

- **PTex**, a novel biochemical extraction procedure to purify RNPs from bacteria and host cells and
- **TriPepSVM**, a machine learning-based tool that allows prediction of RNA-binding proteins across species.

Host: Jan Medenbach
Biochemistry I
Jan.Medenbach@ur.de

