TWINCORE

TWINCORE – Seminar

Wednesday September 19th, 2018, 4 p.m.
TWINCORE Lecture Hall 0.020

Exploring the hidden code of the genomes during infections

Jun. Prof. Dr. Neva Caliskan

Recoding defines the non-standard decoding of specific mRNAs, which is stimulated by cis- and trans- acting elements. The central focus of our lab is to identify molecular players of translational recoding events in viral pathogens and eukaryotic host cells. We aim to discover novel unconventional translation events in emerging RNA viruses and cellular genes to understand the mechanistic details as well as to characterize the RNA-interactome of pathogens and host cells, which can be of crucial importance in pathogenic processes and cellular responses. To this end, we are using a highly interdisciplinary approach that combines cutting-edge RNA analytics, such as ribosome profiling and deep sequencing, with biochemical and computational tools.

Who is Neva Caliskan?

- Group Leader, Helmholtz Institute for RNA-based Infection Research Würzburg
- W1 Professor, Faculty of Medicine, University of Würzburg.

Neva Caliskan did her undergraduate degree in Ankara, Turkey and moved to Germany for her PhD at the International Max Planck Research School for Molecular Biology in Göttingen. After completing her PhD, she stayed as a post doc at the department of Physical Biochemistry at the Max Planck Institute for Biophysical Chemistry. In 2018, she has started her independent research group at the Helmholtz Institute for RNA-based Infection Research in Würzburg. She also has a joint affiliation as a W1 professor at the University of Würzburg. Her group studies the functional dynamics and regulation of translational recoding in RNA viruses using a combination of biochemical and biophysical approaches.

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