

SFB 960-/BZR – Kolloquium

Donnerstag, 10. Januar 2019, 14.00 Uhr, H 53

Dr. Olivier Duss

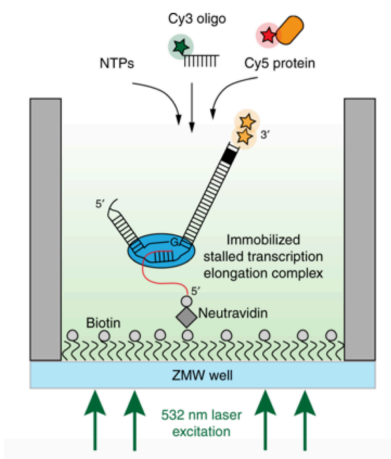


The Scripps Research Institute | Department of Integrative Structural and Computational Biology, La Jolla

“Early co-transcriptional ribosome assembly in real-time”

Ribosomes are efficiently assembled from a large number of RNA and protein components (>50) within a few minutes in vivo. While the whole body of research has focused on the assembly from a pre-transcribed ribosomal RNA (rRNA) and proteins, it has remained elusive how the ribosome is assembled when the rRNA is being actively transcribed in the presence of the ribosomal proteins.

Using single molecule spectroscopy, Olivier Duss investigates in real time how co-transcription of the rRNA influences protein binding during assembly of the small 30S ribosomal subunit and what is the impact of ribosomal assembly factors and potential small molecule drugs on ribosome assembly.



Host: Prof. Dr. Remco Sprangers, Lehrstuhl für Biophysik-I. remco.sprangers@ur.de



Universität Regensburg

Biochemie-Zentrum Regensburg

