

# SFB960-/BZR – Kolloqium

31. Januar 2023, 13.00 Uhr  
H 53



## Prof. Dr. Isabella Moll

Universität Wien

### **Stress-induced modulation of the translational landscape in *Escherichia coli***

In general, Bacteria adapt stress conditions by changing the transcriptome employing alternative sigma factors that guide the RNA polymerase to distinct promoters. In contrast to this time- and energy-demanding process, our past work has shown that reversible ribosome heterogeneity provides a dynamic and energy-efficient adaptation of protein synthesis to changing environmental conditions. Based on these results, we expanded our studies to decipher novel mechanisms in bacteria that result in the generation of specialized ribosomes in bacteria. In particular, we focus on modifications of ribosomal proteins that alter the specificity of the translational machinery in response to environmental stress.

Host: Prof. Dr. Dina Grohmann  
dina.grohmann@ur.de



Universität Regensburg  
Biochemie-Zentrum Regensburg

