

# SFB 960-/BZR – Kolloquium

Freitag 4. November 2016, 14.00 Uhr  
H 53



## Prof. Dr. Markus Bohnsack

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### ***The role of RNA modification in the biogenesis and function of RNA-protein complexes***

RNA-protein complexes (RNPs) are involved in many cellular processes including translation, the regulation of gene expression and chromatin remodelling. Furthermore, an increasing number of diseases have been found to be caused by RNP malfunction, underlining the importance of revealing precise molecular functions of cellular RNPs.

Our group is interested in understanding the biogenesis, dynamics and function of different classes of RNPs in both yeast and human cells. Several projects focus on the biogenesis of ribosomal subunits. In particular, we characterise key enzymatic factors such as RNA helicases and RNA methyltransferases, which modulate the structure and composition of RNPs or introduce RNA modifications. Interestingly, recent findings suggest that some of these factors may act on multiple classes of RNPs, thereby allowing cross-regulation of different cellular processes. In addition, we focus on the roles that modifications in different types of RNAs play during mRNA translation and how lack of these modifications can lead to disease.

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