

# SFB 960-/BZR – Kolloquium

Dienstag 12. Juni 2018, 17.00 Uhr  
H 53



## Prof. Dr. Robert Schneider

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### ***Novel Players in Chromatin***

One of the major goals of post-genomic biological research is to understand the molecular basis and physiological role of covalent protein modifications. These post-translational modifications (PTMs) can regulate protein interactions and thus trigger particular downstream responses. It has been suggested that PTMs of histones constitute a so-called "histone code" defining distinct chromatin or "epigenetic" states. Nonetheless the set of characterised histone modifications is far from complete and many modifications are awaiting identification.

How mechanistically chromatin and "epigenetic" states are inherited through cellular divisions is currently only poorly understood. We are just beginning to understand how chromatin states (and chromatin modulators) can mediate "epigenetic" memory and the inheritance of these states on individual cell level.

One of the key questions in the field is if histone PTMs can be causative for processes like transcription or are just by-products, with limited functional relevance. We recently demonstrated a causative function for novel lysine acetylations on the lateral surface of the histone octamer in transcriptional control. Here I will present our work on novel players in the regulation of chromatin function.

Host: Prof. Dr. Herbert Tschochner  
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