

# SFB 960-/BZR – Kolloquium

27. November 2014, 14.00 Uhr  
H53



## Prof. Dr. Albrecht Bindereif

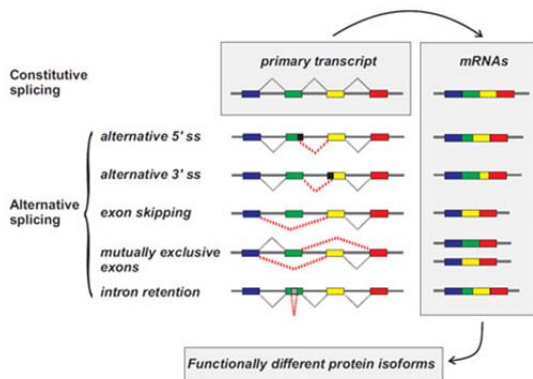
Justus-Liebig-University Giessen

### ***Circular RNA and alternative splicing: from protein-coding to noncoding RNAs***

Eukaryotic gene expression is regulated at numerous levels from RNA synthesis to decay and the post-transcriptional regulation of gene expression represents an important and critical layer of control. This involves - among other processes - the nuclear processing of primary RNA transcripts, including the removal of intronic sequences by splicing, which is often a prerequisite to form mature messenger RNAs in eukaryotic organisms.

Alternative splicing significantly expands the coding potential of eukaryotic genomes increasing the diversity of eukaryotic peptides and shaping eukaryotic proteomes. Regulation occurs by the combinatorial control of a relatively small set of splicing regulators in a tissue- and developmental manner. Often, mis-regulation results in severe disorders and human disease such as beta-thalassemia or spinal muscular atrophy.

Recently circular RNAs produced by splicing have received a lot of attention in the field, functioning e.g. as sponges that sequester and thus regulate the activity of miRNAs. Albrecht will talk about exciting research from his lab and the latest endeavors to characterize the origin and function of these circular RNAs.



Host: Jan Medenbach  
Biochemistry I  
Jan.Medenbach@ur.de



Universität Regensburg  
Biochemie-Zentrum Regensburg

