

SFB 960-/BZR – Kolloquium

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BIO 5.2.38



Dr. Fatima Gebauer

Regulation of Protein Synthesis in
Eukaryotes,
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Post-transcriptional gene regulation by UNR: from dosage compensation to cancer

Eukaryotic gene expression is regulated at numerous levels from RNA synthesis to decay. RNA fate is often determined by protein factors that associate with particular RNA sequences to regulate various aspects of the life cycle of RNAs.

The lab of Fatima Gebauer is particularly interested in the regulation of translation by RNA-binding proteins (RBPs) and control of poly(A)-tail length. Both regulatory processes are widely used in biology to modulate metabolism, cell differentiation, embryonic patterning or synaptic transmission. However, the underlying molecular mechanisms are in most cases still only poorly understood.

*Making use of the genetic model system *Drosophila melanogaster* the lab of Fatima has significantly advanced our understanding of the post-transcriptional regulation of eukaryotic gene expression exerted by RBPs during embryonic development and sex determination.*

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