Master Thesis Project Available

in the Laboratory of Development and Cancer

of Prof. Dr. Mirka Uhlirova at the Cologne Excellence Cluster on Cellular Stress Responses in Aging-associated Diseases (CECAD), University of Cologne, Germany

The Uhlirova Lab invites applications from motivated, curious and creative Master students with the knowledge and practical skills in genetics, molecular and cell biology, and interest in understanding the mechanisms of cellular signaling and regulation of gene expression during development, homeostatic tissue maintenance, aging, and disease.

Our group investigates the pleiotropic functions of the stress-inducible signaling pathways and downstream mechanisms orchestrating gene expression in the context of epithelial tissues and innate immune cells.

We study how diverse stress signals modulate transcription factor and spliceosome activities during development and physiology and how transcription and splicing machinery malfunctions affect epithelial and immune cell behaviors and their interactions during aging and disease.

We focus on the mechanisms that determine the cell type- and life stage-specific splicing patterns and underlie the differential cell and transcript sensitivity to spliceosome dysfunction.

We use *Drosophila* and mouse models, insect and mammalian cultured cells. We combine functional genetics and genome engineering with a wide range of cell, molecular biology and microscopy techniques, biochemistry, and omic approaches.

To apply, please submit:

- your Curriculum Vitae
- a brief summary of your research interests
- a copy of your University transcript

as a single PDF file via email uhlirova-jobs@uni-koeln.de.

For more information visit: http://www.uni-koeln.de/inter-fak/cecad/uhlirova/

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