

Faculty of Mathematics and Natural Sciences

Postdoctoral Position (f/m/d)

Uhlirova Lab of Development and Cancer

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

Pre-mRNA splicing catalyzed by a large dynamic ribonucleoprotein machine called spliceosome represents a critical step in the regulation of gene expression, contributing to a marked expansion of proteome diversity and functional complexity in metazoans. In contrast, spliceosome malfunction hallmarks age-associated tissue decline and a wide range of diseases, including cancer and neurodegeneration.

YOUR TASKS

- » To study the mechanisms underlying spliceosome assembly and functional plasticity under physiological, stress and disease conditions in *Drosophila* and mouse models combining genetics, cell biology and biochemistry with omic approaches and imaging
- » To investigate what renders different transcripts, cells, and tissues sensitive to aberrant splicing
- » To elucidate how spliceosome malfunction impacts genome stability and contributes to loss of tissue homeostasis, premature aging and diseases

YOUR PROFILE

- » Doctoral degree in Life sciences
- » Motivated, curious and creative to answer exciting biological questions with a strong ability for problem-solving through critical analytical thinking
- » Keen interest in the mechanisms of signaling and regulation of gene expression in development and disease
- » Good communication skills, fluency in English, sense for a teamwork and commitment to high-quality research
- » Strong background in genetics and molecular biology is essential
- » Experience with model organisms (e.g. *Drosophila*, mouse), imaging techniques, and knowledge of bioinformatic tools is a strong added value.

WE OFFER YOU

- » Interactive & international research group with access to the state-of-the-art imaging, proteomic, lipidomic and genomic research facilities
- » A diverse and fair working environment
- » Support in reconciling work and family life
- » Flexible working time models
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Local transport ticket at a discount for UoC employees

The position is available from the 01.03.2021 on a full-time basis. The position is initially available for two year with possibility of extension. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group TV-L 13 of the pay scale for the German public sector.

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

Please apply online at: <https://jobportal.uni-koeln.de> with proof of the sought qualifications. The reference number is Wiss2011-12. The application deadline is 15.01.2021. Your application must include:

- » a Curriculum Vitae and a publication list
 - » a brief statement of scientific achievements
 - » a one-page letter summarizing your research interests and motivation for the application
 - » contact information for two to three academic references
 - » proof of the qualification, copies of your degree certificates
- All questions should be directed to uhlirova-jobs@uni-koeln.de.