Postdoctoral Researcher

Full time position for ERC-funded project

Applied Cancer Epigenomics and Epitranscriptomics Group

Job description
The Applied Cancer Epigenomics and Epitranscriptomics Group (www.janajeschkelab.com), headed by Dr. Jana Jeschke, seeks a highly motivated postdoctoral researcher to explore new mechanisms of gene regulation in tumor heterogeneity.

Our group leverages state-of-the-art sequencing technologies to map changes in DNA and RNA modifications in human tumors. We utilize these changes to improve the stratification of cancer patients for outcome and treatment choice, to identify new targets for cancer therapy and to gain new insights into tumor biology.

You will join a young and international team of enthusiastic and dynamic scientists to perform research for our ERC-funded EpiResist project. For this project, you will set-up the newest single-cell sequencing technologies, develop state-of-the-art cancer models of therapy resistance, work with epigenetic drugs and human specimens from clinical trials to study the role of the N6-methyladenosine (m6A) mRNA modification in the heterogeneity of breast cancers and their resistance to treatments. This unprecedented analysis of the m6A methylome in breast cancer will allow you to gain invaluable new insights into tumor evolution and to disclose uncharted disrupted pathways of chemoresistance that can be therapeutically exploited. To realize this project, you require knowledge and skills related to m6A mapping and mechanisms of tumor progression and therapy resistance.

Profile
We are seeking an enthusiastic and highly motivated scientist with a PhD degree in biomedical sciences and a strong background in cancer and preferably epigenetics/epitranscriptomics research. The position requires knowledge and experience with molecular and cellular biology techniques, particularly:

- Cell culture and in-vitro cancer models of therapy resistance
- RNA extraction, RT-qPCR, western blot, CRISPR, RNAi
- Phenotypic cancer assays (cell viability, cell proliferation with endpoint assays and/or live-cell imaging platforms (e.g. Incucyte))
- Sample preparation for single-cell RNA sequencing and preferably m6A/MeRIP sequencing
The successful candidate should further have a track record of:

- Research excellence as evidenced by publications
- Managing PhD students and technicians
- Working autonomous and in collaboration
- Excellent skills in spoken and written English
- Excellent organization, time management and interpersonal skills

**Funding**

The position is fully funded for 3 years by an ERC Starting Grant. The salary will be commensurate according to experience following ULB’s pay scale. The start date is flexible: earliest 1st of January 2024, but no later than March 2024.

**Environment**

Our group is located at Erasme Campus of the Université Libre de Bruxelles (ULB) in Brussels, Belgium. We are part of Institut Jules Bordet, which has a long-standing track record of excellence in cancer research. We offer an outstanding scientific environment that is committed to advancing responsible science through collaboration and inclusion.

**Application**

Send your compelling cover letter along with your updated CV and three professional references by email directly to jana.jeschke@ulb.be. All required documents should be combined into a single PDF document. The subject of the email: ERC_Postdoc_First Name_Last Name. Do not include substantive information in the body of the mail. The application deadline is 31st of January 2024.