

Job posting

Type of position



scientific



administrative

Target group



graduates



post docs



other

Title

2 Postdoc Positions available
1 Computational Biologist and 1 Molecular Biologist
non-coding RNA & R-loop epigenetics
(#CNP10)

Institution

The Institute of Molecular Biology gGmbH (IMB) is a Centre of Excellence for Life Sciences, funded by the Boehringer Ingelheim Foundation. It is located within the campus of the Johannes Gutenberg-University, Mainz, Germany.

Position

The Niehrs laboratory studies regulation of DNA methylation, which plays important roles in development & disease. We have recently demonstrated a role for long non-coding RNAs and R-loop DNA:RNA hybrids in DNA methylation (Arab et al. 2014, Mol Cell, (2014) Nat. Genet. (2019)). In an ERC-funded project, we now aim to elucidate the mechanisms of DNA demethylation as well as the role played by long non-coding RNAs and R-loops in its regulation. See also www.imb-mainz.de/research-at-imb/niehrs/research/

Responsibilities

Candidates will make use of mouse embryonic stem cells (ESCs) to interrogate genome-wide the role of ncRNAs and R-loops in targeting GADD45a and the DNA demethylation machinery in the genome. We will use CRISPR/CAS9 mediated ESC mutants, as well as CHIP-seq, RNA-seq, bisulfite-seq to carry out multi-dimensional data analysis to address: Where in the genome does demethylation occur? What are the molecular determinants in ncRNA & R-loops involved in targeting? What are the cofactors involved? The project will involve strong interaction between the Molecular- and the Computational Biologist.

Requirements

You have

- PhD & publications in a relevant field
- Sound experience in R scripting or Python (Computational Biologist)
- Sound experience in molecular biology (Molecular Biologist)
- Familiarity with Omics techniques or –analysis, or with ncRNAs or R-loops is advantageous
- Excellent communication skills and good team spirit with the ability to solve problems independently
- Fluent in English (spoken and written)

We offer

- An international and vibrant working environment
- Competitive salary
- Training opportunities
- Favourable pension scheme

**Application
procedure
(deadline etc.)**

To apply please send a single PDF file, stating job reference (#CNP10), and containing your cover letter stating research and career interests, CV, scans of your degrees (Germans: including copies of Abitur- & Diplom/Master Zeugnis), and contact details of 2 references to personnel@imb-mainz.de.

Informal

enquires should be addressed to Prof. Christof Niehrs (c.niehrs@imb-mainz.de).

Starting date: before August 2019

Duration: Initially 3 years; option for further extension

Application deadline: 30th June 2019

Declaration of Consent and Data Protection

By sending us your application, you are consenting to us saving your personal data in order to carry out the selection process.

You can find more information on data protection and retention periods at <https://www.imb.de/jobs/datenschutzerklaerung-data-protection/>

Contact

personnel@imb-mainz.de