



GÖTEBORGS UNIVERSITET

Three postdoctoral positions are available for two years with a possibility of further extension to 2-4 years to work on larger projects financed by the Knut and Alice Wallenberg foundation and Swedish Research Council. The projects are aimed at studying how long noncoding RNA can direct vital cellular functions in normal development and disease.

Subject area

Long non-coding RNA in tumor development and cellular differentiation

Specific subject description

By using large-scale functional screens (Ali MM et al., Nature Communications 2018; Meryet-Figuere et al., Cell Cycle 2014; Mondal Nature Communications et al., 2015; Pandey GK et al., Cancer Cell 2014; Mondal et al., Cancer Cell 2018), we have identified several regulatory long noncoding RNAs that take part in cell cycle regulation and chromatin organization. We have recently shown that some of these regulatory long noncoding RNAs act as oncogenic drivers or tumor suppressors in several cancer models. We are currently interested in characterizing the functional role of long noncoding RNAs in regulating tumor-specific gene networks to devise novel RNA-based therapeutic approaches using lung cancer and a children cancer neuroblastoma as models. We therefore aim to recruit several postdocs with complementary scientific skills.

Job assignments

Highly motivated candidates with a strong background in cell & molecular biology, and cancer biology can apply for these positions. Candidates will work on regulatory long noncoding RNAs that have been shortlisted using genome scale functional long noncoding RNA screens. Projects in the lab involve;

- 1) Characterization of the mechanisms by which long noncoding RNAs organize active and inactive chromatin compartments
- 2) Exploring the functional role of 6p22.3 locus long noncoding RNAs in neuroblastoma development and progression
- 3) Uncovering the functional role of S-phase enriched lncRNAs in lung cancer development and progression

The selected candidates will work with human ES cells, human ES cell derived trunk neural crest cells, tumor cell lines, primary tumors and mouse xenografts.

Eligibility

An achieved doctoral degree is compulsory for a position as postdoctoral fellow at Gothenburg (Göteborg) University. Since a position as postdoctoral fellow aims to give new holders of the doctorate the opportunity mainly to strengthen and develop their scholarly proficiency, we aim for those who have a doctoral degree not older than 3 years counting from last date of application.

Assessment

Applications are welcome from highly motivated and talented postdocs with a broad experience in molecular studies, preclinical animal models with basic bioinformatics knowledge. The ideal candidates should have extensive experience in RNA Biology, Cell and Molecular Biology and Cancer Biology. Candidates with experience in human ES cell line model systems, Crispr/Cas9, handling xenograft models and bioinformatics skills are encouraged to apply. The work involves collaboration within and outside the group, therefore good teamwork skills are important. The project requires an enthusiastic and creative person with a passion and curiosity for science. Excellent English communication and writing skills are required since we operate in a very international environment.

Deadline: May 15th 2018, Please send your applications to Kanduri.chandrasekhar@gu.se

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