

## Two postdoctoral fellows in long non-coding RNA in tumor development and cellular differentiation

**Type of employment:** Fixed-term employment, 2 years

**Extent:** 100 %

**Location:** Institute of Biomedicine, Göteborg /Gothenburg First day of employment: As agreed

Reference number: PER 2015/5

These postdoctoral positions are a part of a larger project financed by the Knut and Alice Wallenberg foundation. The consortium consists of six research group at the Institute of Biomedicine at Sahlgrenska Academy. These groups will study how non-coding RNA can direct vital cellular functions, including the cell cycle and cellular differentiation.

### **Subject area**

long non-coding RNA in tumor development and cellular differentiation

### **Specific subject description**

The overall aim of the project is to identify key regulatory long non-coding RNAs (lncRNAs) involved in tumor development and cellular differentiation.

Candidate molecules will be identified and characterized using a range of experimental and computational techniques, ranging from large-scale genomics to focused molecular and cell biology and biochemical studies. 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 that target long noncoding RNAs to chromatin (Pandey et al., Mol Cell 2008; Mondal et al.; Genome Res 2012) 2) Exploring the functional role of long noncoding RNAs in cell differentiation programs and 3) Uncovering long noncoding RNA functions in tumor development and progression using selected cancer model systems (Gaurav et al., Cancer Cell, 2014 Nov 10;26(5):722-737). The selected candidates will work with primary tumors, tumor cell lines and mouse xenografts.

### **Eligibility**

An achieved doctoral degree is compulsory for a position as postdoctor at Göteborg University. The doctoral thesis shall be in a relevant area according to the specific position stated here. Since a position as postdoctor 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**

The ideal candidates should have experience in Cell and Molecular Biology, Cancer biology, and RNA biology. 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. Good English is required since we operate in a very international environment.

**Web link to the ad:**

<http://www.gu.se/omuniversitetet/aktuellt/ledigaanstallningar/?id=19144>  
<<http://www.gu.se/omuniversitetet/aktuellt/ledigaanstallningar/?id=19144&Dnr=676852&Type=S>> &Dnr=676852&Type=S

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