

Postdoctoral fellow to study (subject)

Type of employment: Postdoctoral researcher on stipend, 1 year

Extent: 100%

Location: University of Gothenburg, Sweden

First day of employment: As soon as possible, upon agreement

A postdoctoral position is available immediately to study the role of ALK in neuroblastoma in the Palmer lab (<https://ruthpalmerlab.se/>) at the University of Gothenburg.

Project Description

The project will involve a multi-omics study on neuroblastoma cell lines and mouse tumours treated with ALK, ATR, or CDK4/6 inhibitors. These will be complemented by the use of a unique Alk::TurboID mouse that will be used to profile Alk interactomes in the tumour cells and responses to different treatment regimes. This Alk::TurboID mouse will be employed *in vivo* in high-risk neuroblastoma mouse models, where therapy-induced changes in the Alk interactome will be complemented by investigation of the tumour microenvironment using scRNA sequencing and spatial transcriptomics. These experiments will provide novel insight and inform therapeutic strategies such as combining ATR or CDK4/6 inhibitors with immunomodulatory agents. The project is expected to provide mechanistic understanding of treatment-induced changes in neuroblastoma cells and their microenvironment. Furthermore, the generated data will be made available as an interactive web application to allow other researchers to visualize and explore these results.

Qualifications

A completed doctoral degree is compulsory. The doctoral thesis shall be in a relevant area. A high level of English communication and writing skills are an important requirement. The candidate is expected to be active in designing and implementing their projects, and also to collaborate closely with other members of the team. Experience with bioinformatics is a requirement. Experience with proteomics, transcriptomics and their analysis is a merit. Knowledge of ALK is an advantage.

How to apply

Please send your application to (ruth.palmer@gu.se)

- Cover letter giving a description of previous research experience and a motivation to why you are applying for this position
- CV and publication list
- Copies of relevant degree certificate(s)
- Names and contact information of at least two reference persons

For further information about the project and position, please contact (Ruth Palmer) at (ruth.palmer@gu.se)

You are welcome with your application.