Announcement: Post doc scholarship in cancer biology

Scholarship
A postdoc scholarship is available for a highly motivated candidate with a strong background in cancer biology.

High-risk neuroblastoma is a childhood cancer with often poor prognosis and there is a need for novel treatment strategies. We have recently established and characterized multiple neuroblastoma orthotopic patient-derived xenografts (PDXs). These PDXs retain the genotype, phenotype, tumorigenic, and metastatic properties of the tumors from which they were derived, making them authentic models for studying and targeting neuroblastoma metastasis and resistance (Braekeveldt et al., Cancer Res, 2018). The lab recently used high-throughput drug screening, 3D tumor organoids and PDX models to demonstrate that KSP-inhibition is a promising strategy in neuroblastoma (Hansson et al., Science Transl Med, 2020).

Our overall aims are to unravel mechanisms leading to metastasis and treatment resistance of neuroblastoma, and to test compounds targeting aggressive neuroblastoma. We perform molecular and functional studies of primary and metastatic tumor cells, as well as in vitro and in vivo drug testing using 3D tumor organoids and PDXs as model systems. Methods include cell- and molecular biology techniques, 3D tumor cell culturing, RNA-sequencing, clonal evolution assays, in vitro and in vivo drug testing, in vivo work including in vivo imaging.

We are looking for a highly motivated and ambitious postdoc interested in joining our team. Focus is on developing humanized neuroblastoma - bone marrow models in vitro and in vivo, and to use these models to understand neuroblastoma bone marrow growth and treatment resistance in the bone marrow niche. The post-doc also includes writing grant applications/manuscripts, supervision of junior lab members, and assistance with other research projects.
Qualifications required
1. The applicant should be able to conduct projects independently and critically
2. Broad experience in cancer research
3. Substantial experience in cell- and molecular biology techniques, cell culturing methods, immunohistochemistry, in vitro and in vivo drug testing, in vivo procedures
4. Experience from working with the bone marrow niche in cancer is a strong merit
5. Experience from in situ spatial transcriptomics is a strong merit
6. Excellent communication skills and be able to interact efficiently in a team
7. Personal suitability is very important
8. Excellent spoken and written English
9. PhD degree in a relevant subject within the last three years

The applicant should not have been employed by Lund University within the last two years in order to be able to receive a scholarship. PhD degree should not be more than three years old at the last day of applying.

Placement: Division of Translational Cancer Research, Medicon Village, Lund University, Lund, Sweden
Ref No: V 2021/1188
Duration: 24 months
Starting time: preliminary September 1st, 2021
Last day for applying: May 20th, 2021

For further information please contact:
Daniel Bexell
daniel.bexell@med.lu.se

Other
Lund University encourages both men and women to apply for the position.

Information regarding post doc scholarships at Lund University
• The scholarship amounts to 27 000 SEK/month and is normally paid three months in advance.

• The scholarship is intended for the recipient’s own education and does not constitute compensation for work carried out for the University.

• The scholarship is a grant and therefore not subjected to tax deduction.

• The scholarship does not entitle the recipient to compensation in case of illness.

• The scholarship does not constitute a pensionable income.

• The scholarship does not entitle the recipient to vacation.
• The scholarship does not include financial compensation for parental leave.

• The scholarship does not entitle the recipient to allowance during travels in the line of duty.

• The scholarship awarded is to be reviewed by the head of department every six months and the supervisor is to inform the head of department before each review of any significant circumstances.

• Scholarships set up by Lund University for any individual may not run for a period of more than 24 months.

• The scholarship follows the regulations established by the Vice-Chancellor of Lund University (June 27th 2013; Reg. No PE 2013/356).

**Application**

Application stating the reference number **V 2021/1188** and containing a CV, a personal letter, proof of dissertation and relevant documents should be addressed to: daniel.bexell@med.lu.se.

**Last day of application is May 20th, 2021**