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# PhD student position in the research group of Patrick Micke

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Published: 2022-02-02

Uppsala University is a comprehensive research-intensive university with a strong international standing. Our ultimate goal is to conduct education and research of the highest quality and relevance to make a long-term difference in society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has over 45,000 students, more than 7,000 employees and a turnover of around SEK 7 billion.

Department of Immunology, Genetics and Pathology Uppsala University is a comprehensive research-intensive university with a strong international standing. Our ultimate goal is to conduct education and research of the highest quality and relevance to make a long-term difference in society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has over 45,000 students, more than 7,000 employees and a turnover of around SEK 7 billion. The Department of Immunology, Genetics and Pathology at Uppsala University ([www.igp.uu.se](http://www.igp.uu.se)) has a broad research profile with strong research groups focused on cancer, autoimmune and genetic diseases. A fundamental idea at the department is to stimulate translational research and thereby closer interactions between medical research and health care. Research is presently conducted in the following areas: medical and clinical genetics, clinical immunology, pathology, neuro-oncology, vascular biology, radiation science and molecular tools. Department activities are also integrated with the units for Oncology, Clinical Genetics, Clinical Immunology, Clinical Pathology, and Hospital Physics at Akademiska sjukhuset, Uppsala. The department has teaching assignments in several education programmes, including Master Programmes, at the Faculty of Medicine, and in a number of educations at the Disciplinary Domain of Science and Technology. The department has a yearly turnover of around SEK 420 million, out of which more than half is made up of

external funding. The staff amounts to approximately 345 employees, out of which 100 are PhD-students, and there are in total more than 700 affiliated people.

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## **Duties**

A PhD student position is available for highly motivated individuals with interest in tumorbiology, tumorimmunology and tumorpathology at the laboratory of Professor MD PhD Patrick Micke at Uppsala University, Department of Immunology, Genetics and Pathology. The doctoral student will perform analyses overall aiming to identify novel prognostic as well as predictive biomarker for NSCLC patients. The main focus will be on components of tumor-immune/tumor-stroma-signaling in the context of early NSCLC progression as well as the development of resistance to checkpoint inhibiting therapy. Analytical approaches will involve spatial in situ techniques such as multiplexed immunofluorescence (Vectra Polaris system), proximity ligation assay, RNA scope and FISH for comprehensive signaling-profiling of the tumor-immune microenvironment. Furthermore, RNA sequencing and mutation profiling of clinical samples will be conducted on a regular basis. A central aspect of the doctoral studies will be to learn how to set generated data in a broader context. Additional tasks will include complementary functional in vitro studies using primary tissue samples.

The key duties of doctoral students are to devote themselves to their research projects and third cycle courses. Interest in acquiring and expanding of bioinformatics skills will be highly required for performance of the projects. Doctoral students are expected to actively involve themselves in the research aims of the group and to contribute to a well working lab environment including also laboratory duties and organization. Participation in all relevant activities organized by the research network will be strongly encouraged and supported.

The successful candidate will devote most of the time towards his/her research level education. Other service activities within the department, e.g. education and administrative work can be included within the framework of the employment (maximum 20%). The position will be extended with the time devoted to teaching to allow four years of full-time graduate studies.

## **Requirements**

The applicant should have MSc degree or MD or similar in a relevant area (e.g.

molecular biology, tumorbiology, tumorimmunology, pathology, bioinformatics). A very strong merit would be experience in spatial in situ profiling techniques. Strong merit would be experience bioinformatics particularly digital image analysis. Excellent skills in oral and written English are required. The applicant must be team oriented and open-minded.

Information about education at the postgraduate level, admission requirements and admission decisions can be found at <https://mp.uu.se/web/info/forska/forskarutbildning/medicin-och-farmaci/>.

Selection of applicants will be done by the future tutor for the selected student in consultation with the postgraduate study group of the Department. The Postgraduate Programmes Committee at the Disciplinary Domain of Medicine will formally approve the student's admission.

Rules governing PhD students are set out in the Higher Education Ordinance chapter 5, §§ 1-7 and in [Uppsala University's rules and guidelines](#).

### **About the employment**

The employment is a temporary position according to the Higher Education Ordinance chapter 5 § 7. Scope of employment 100 %. Starting date 01-04-2022 or as agreed. Placement: Uppsala.

**For further information about the position, please contact:** Carina Strell, [Carina.strell@igp.uu.se](mailto:Carina.strell@igp.uu.se).

**Please submit your application by 16 February 2022, UFV-PA 2021/4585.**

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Please do not send offers of recruitment or advertising services.

**Submit your application through Uppsala University's recruitment system.**

**Placement:** Department of Immunology, Genetics and Pathology

**Type of employment:** Full time , Temporary position longer than 6 months

**Pay:** Fixed salary

**Number of positions:** 1

**Working hours:** 100 %

**Town:** Uppsala

**County:** Uppsala län

**Country:** Sweden

**Union representative:** ST/TCO tco@fackorg.uu.se

Seko Universitetsklubben seko@uadm.uu.se

Saco-rådet sacco@uadm.uu.se

**Number of reference:** UFV-PA 2021/4585

**Last application date:** 2022-02-16

**Login and apply**