

PhD student in immunotherapy against melanoma

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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 54,000 students, more than 7,500 employees and a turnover of around SEK 8 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) 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

Our research group is jointly supported by SciLifeLab and Uppsala University. We aim to dissect the negative immune regulatory network in immune cells and cancer cells to uncover novel mechanisms that could broaden the clinical benefits of cancer immunotherapy. We will achieve this by combining our pre-clinical research expertise in cancer immunology with the pioneering technology platforms at the SciLifeLab. A strong technical focus will be developing experimental tools using CRISPR/Cas9 technology. In particular for the project, we have a special interest in immune resistance mechanisms in melanoma cancer cells.

For more information, please see <https://www.scilifelab.se/researchers/yumeng-mao/>.

Requirements

- A Master's degree in relevant field, such as biomedicine, molecular medicine, immunology, cancer biology or other related areas. Previous experience in cancer immunology, particular immune checkpoints in melanoma is a plus.
- Passionate and dedicated in pursuing a scientific career and show an interest in translational cancer immunology.
- Solid experimental background including in vitro cell-based assays, western blotting, qPCR, ELISA.

- Experienced in using advanced multi-colour flow cytometry to analyze immune cell phenotype and functions, e.g. surface markers, intracellular proteins and cytokines.
- In-depth experience in isolating and handling primary immune cells from human blood and mouse models and conducting functional in vitro assays, e.g. cell proliferation, cancer/immune co-cultures, cytokine release.
- Certified and experienced in studying efficacy of anti-cancer drugs using mouse models.
- Experimental experience using CRISPR/Cas9 for protein deletion in cells is highly valued.
- Proficient in using data analysis software such as Graphpad Prism, FlowJo, etc.
- Proficiency in conducting scientific discussions in English is a must.
- Previous experience in using co-culture assays with immune and cancer cells and ability to analyze sequencing data with R packages are considered strong merits.

Additional qualifications

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 as agreed. Placement: Uppsala.

For further information about the position, please contact: Yumeng Mao, yumeng.mao@igp.uu.se.

Please submit your application by 14 June 2022, UFV-PA 2022/2173.

Are you considering moving to Sweden to work at Uppsala University? [Find out more about what it's like to work and live in Sweden](#).

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 2022/2173

Last application date: 2022-06-14

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