



UPPSALA  
UNIVERSITET

# Doctoral Position in Regenerative Neurobiology

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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.**

**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, neurobiology, 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. For more information see the department homepage <http://www.igp.uu.se>.

[Read more about our benefits and what it is like to work at Uppsala University](#)

## **Duties/Project description**

A doctoral position is available within the research group of Regenerative Neurobiology at Uppsala University, Department of Immunology, Genetics and Pathology. The group is led by Professor Elena Kozlova.

The aim of our research is to make discoveries that can improve conditions for functional recovery after disease or damage in the central nervous system, and to exploit the potential of stem cells to stimulate tissue repair. Our research has shown that stem cells which were exposed to extreme physical conditions may exhibit unexpected, novel and medically relevant properties. The research is conducted on cultured cells and experimental animal models. The research group has extensive cooperation with national and international research groups in different fields as well as with research-oriented biotechnology companies.

Read more here; <https://igp.uu.se/research/neuroscience/elena-kozlova/>

We are looking for a highly motivated person with an interest in basic research on stem cells to investigate their potential medical application after exposure to extreme physical challenges. The purpose of the doctoral project is to study the effects of different gravitational changes on stem cells from the nervous system grown under different conditions in 2D and 3D cultures. The doctoral position is for full-time studies under four years.

*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. The student is expected to take part in courses and other activities of the graduate school.*

## **Requirements**

The applicant must have a master's degree in an area of relevance for basic biomedical research. Experience of culture of stem cells from the nervous system, as well as bioprinting of such stem cells is a requirement. Experience in techniques for morphological and molecular cell analysis is a requirement. Good written and oral proficiency in English is a requirement. Great emphasis is placed on personal qualities that make the applicant suitable for the position, such as good planning

ability and cooperative and communicative competence. The applicant should be purposeful, structured and able to work effectively both individually and in groups.

### **Additional qualifications**

Documented experience of presenting research results and publishing biomedical research in renowned international journal is a merit, as is knowledge and experience of biological research within the framework of space technology.

*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 as agreed. Placement: Uppsala.

### **For further information about the position, please contact:**

Elena Kozlova, elena.kozlova@igp.uu.se, +46 70 167 95 35.

**Please submit your application by 29 April 2022, UFV-PA 2022/865.**

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](mailto:tco@fackorg.uu.se)

Seko Universitetsklubben [seko@uadm.uu.se](mailto:seko@uadm.uu.se)

Saco-rådet [saco@uadm.uu.se](mailto:saco@uadm.uu.se)

**Number of reference:** UFV-PA 2022/865

**Last application date:** 2022-04-29

**[Apply for position](#)**