PhD student in Vladimir Tolmachev's Laboratory

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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 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, neurobiology, 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 at the Disciplinary Domain of Science and Technology. The department has a yearly turnover of around SEK 500 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. Feel free to read more about the department's activities here: www.igp.uu.se

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Duties
A PhD student position is available for highly motivated individuals with interest in tumor targeting and radionuclide molecular imaging to join the laboratory of Prof. Vladimir Tolmachev at Uppsala University, Department of Immunology, Genetics and Pathology. Research in the lab focuses on development of targeted agents for imaging-guided therapy of cancer. The focus will be put on production, radiolabeling and biological characterization of tumor-targeting probes based on scaffold proteins. The goal of the project is to develop scaffold proteins conjugated to or fused with cytotoxic radionuclides and drugs and their diagnostics counterparts labeled with such radionuclides, as 177Lu, 131I, 68Ga, 124I, 125I and 99mTc.

Further information on the activity of the research group can be accessed at https://www.igp.uu.se/research/cancer-precision-medicine/vladimir-tolmachev/

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
To meet the entry requirements for doctoral studies, you must hold a Master’s (second-cycle) degree in Medical Nuclide Techniques, Radiochemistry, or Radiation Biology. Experience in laboratory practice, cultivation of human cancer cell lines, and work with radiation sources and radiolabelled proteins are required. Excellent skills in oral and written English are required.

Completed at least 240 higher education credits, of which at least 60 higher education credits at advanced level including an independent work of at least 15 higher education credits, or in some other way acquired essentially equivalent knowledge.

Additional qualifications
Bachelor degree in Chemistry or Biochemistry, preferably including an education in Radiochemistry, would be a strong advantage. Very strong merits would be experiences with experiments with cell spheroids, radiosensitivity assays in vitro
(viability, clonogenic), evaluation of a pattern of DNA damage by radiation, and evaluation of binding of radiolabelled proteins to malignant cells.

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:**
Prof. Vladimir Tolmachev, Phone: +46 704 250782, Skype: vladimir.tolmachev_3, E-mail vladimir.tolmachev@igp.uu.se

**Please submit your application by 6 July 2023, UFV-PA 2023/2018.**

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Please do not send offers of recruitment or advertising services.

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

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Saco-rådet saco@uadm.uu.se
Number of reference: UFV-PA 2023/2018
Last application date: 2023-07-06

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