

PhD Scholarship in Inorganic and Radiopharmaceutical Chemistry

A PhD position is currently available in the fields of **Inorganic and Radiopharmaceutical Chemistry** in the research groups of Prof. Gilles Gasser at the Department of Chemistry of the University of Zurich (Switzerland) and Prof. Thomas Mindt at the Clinic of Radiology and Nuclear Medicine of the University of Basel Hospital (Switzerland).

Project

This collaborative project between the Universities of Zurich and Basel funded by the Swiss National Science Foundation aims to design novel multidentate bifunctional chelating agents for the development of Zirconium-89 based molecular imaging probes. The radionuclide Zirconium-89 (^{89}Zr) is indeed an emerging new radiometal with promising characteristics for diagnostic applications in high resolution Positron Emission Tomography (PET) in the field of nuclear medicine. Several preclinical studies and clinical trials have demonstrated the potential of ^{89}Zr -based radiopharmaceuticals, in particular ^{89}Zr -labeled antibodies. Our groups have recently demonstrated the preparation of more stable ^{89}Zr chelators than those currently used in pre-clinical settings (*Chem. Commun.* **2014**, 50,11523). In this project, we aim to develop further our recent findings. This project is therefore extremely application-orientated.

Your Profile

The successful candidate has obtained a university degree (MSc/Diploma) in chemistry, chemical biology or related field. He/she is expected to be highly motivated to work on an ambitious, cross-disciplinary research project involving organic chemists, inorganic chemists, biochemists, radiopharmaceutical chemists and molecular biologists.

Selected Criteria

- 1) Enthusiasm for research.
- 2) Ability to work independently.
- 3) Solid experience in organic and inorganic synthesis.
- 4) Solid experience in common analytical methods (e.g., NMR, MS, HPLC,).
- 5) Willingness to learn and apply new techniques.
- 6) Willingness to perform part of the research at other Swiss or European sites of collaborators
- 7) Good knowledge of spoken and written English.

Desirable Criteria

- 1) Experience in work with proteins
- 2) Experience in work with cell assays.
- 3) Experience in work with radioactivity
- 4) Knowledge of German.

The position is directly available. The salary is according to the Swiss National Science Foundation scale for PhD students (CHF 47'040 per annum with a CHF 1'500 increase per year thereafter).

For further information

Please visit our websites (www.gassergroup.com; <https://radiologie.unibas.ch/klinik/mitarbeitende/profil/profil/person/mindt-thomas/>) or contact Prof. Gilles Gasser directly by email (gilles.gasser@chem.uzh.ch) or by phone (+41 44 635 46 30)

Interested? Please send your CV and the names and addresses of two referees to
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