

Postdoctoral Position in Radiopharmaceutical Development and Preclinical Imaging

The Division of Radiopharmaceutical Chemistry of the University Hospital Basel is offering a

PostDoc position (f/m/d) in Radiopharmaceutical Development and Preclinical Imaging

The position (100%) is initially limited for 2 years, with the plan for further extension. The Division of Radiopharmaceutical Chemistry is a renowned research oriented group focusing on the development and the preclinical and clinical evaluation of novel radiopharmaceuticals in the area of oncology. The strength of the group is the long lasting expertise in developing cancer-specific imaging and therapeutic radioligands based on biomolecules, and particularly peptides. Our research experience is covering the entire spectrum of such developments, from the design and synthesis, to radiolabeling, *in vitro* evaluation, *in vivo* studies with different animal models and nuclear imaging (SPECT/CT, PET/CT) in small-animals, up to clinical studies.

The successful candidate will design, synthesize and purify peptides and/or small molecules, label them with radiometals and perform *in vitro* evaluation (i.e., enzymatic assays, cellular distribution, saturation binding) to assess their targeting properties and potency. The candidate will proceed with the most promising hits to test *in vivo* distribution and pharmacokinetics (e.g., *ex-vivo* biodistribution and PET/SPECT/CT imaging) and efficacy (therapy studies) in murine models of cancer.

The candidate will conduct the required preclinical research with the assistance of experienced professionals from a multidisciplinary environment.

Requirements

- PhD in life sciences (e.g., medicinal chemistry, biotechnology, pharmacy) or related disciplines
- Experience in drug design and synthesis (peptide chemistry and/or small organic ligands)
- Excellent written and oral communication skills

Additional Requirements

- Experience in chelator-based radiochemistry
- Experience in *in vitro* assays (e.g., inhibition assay, radioligand-based assays)
- Experience to work with small animals (FELASA)
- Good knowledge of data analysis and editing Software (i.e., Excel, Word, EndNote, Powerpoint, Graphpad Prism, MatLab, Illustrator)

We are looking for an enthusiastic and highly motivated person who is eager to work in an interdisciplinary environment and perform research from bench-to-bedside.

We offer the opportunity to extend the initial 2-years fixed term by initiating new studies in the field, to publish in leading international journals and to present the research in recognized international meetings. The monthly salary is calculated based on the Swiss National Science Foundation salary ranges.

Applications need to include the candidate's CV, the list of publications, along with a letter of motivation and 2 reference letters. Please send your application documents as PDF attachments by E-mail quoting the Subject "Application for PostDoc position_2023" to the Head of the Division of Radiopharmaceutical Chemistry, Prof. Melpomeni Fani (melpomeni.fani@usb.ch, Tel. +41 (0)61 55 65 891).