

Call for a post-doc position in the NCN research project SONATA-BIS9

Project's title: „Bioconjugates labeled with alpha- and beta-particle emitting radionuclides as potential radiopharmaceuticals in Targeted Radionuclide Therapy”

Project's no: 2019/34/E/ST4/00080

Project's PI: Marek Pruszyński, PhD, DSc, prof. ICHTJ

Job title: post-doc in the project

Place of work: Institute of Nuclear Chemistry and Technology, Dorodna 16, 03-195 Warsaw, Poland, www.ichtj.waw.pl

Requirements:

- PhD in chemistry, biology, biotechnology or related field (received up to 7 years before signing the employment contract under the project);
- documented scientific achievements in the form of peer-reviewed articles in JRC journals;
- fluent English, spoken and written, enabling efficient communication and preparation of scientific articles;
- strong motivation for scientific work and assimilation of new knowledge and technical skills;
- good interpersonal and communication skills, to be able to work in a multi-cultural environment both independently and as a part of a team.

Would be appreciated experience in the field of:

- analytical methods (e.g. HPLC, TLC, dialysis etc.);
- cell culturing and cellular research on monolayers and 3D-spheroids (e.g. toxicity or binding affinity of compounds etc.);
- work with open radioactive sources.

Description of tasks:

- participation in research work under the NCN SONATA-BIS9 – a short description of the project is presented below:
“Cancer is the second leading cause of deaths in the world and its incidence steadily increases. Although incremental success have been achieved with more selective therapies targeting biomarkers typical for a cancer cell, still a large part of patients cannot be cured. Incomplete eradication of residual tumor cells and acquired drug resistance influence on relapse and progression of disease, especially in very aggressive and metastatic breast, ovarian and gastric cancers overexpressing HER2 receptor. Targeted radionuclide therapy (TRT) uses radionuclides attached to cancer-specific molecules to selectively deliver radiation to the tumor. The aim of this project is to develop novel radiobioconjugates based on anti-HER2 biomolecules labeled with α - and β -particle emitting radionuclides as potential new radiopharmaceuticals for TRT.”
- participation in the preparation of bioconjugates based on biomolecules with attached chelating ligands such as: DOTA, DTPA, DFO etc., which then will be labeled with radioactive isotopes, e.g. Ac-225, Th-227, I-131, Y-90 etc.;
- performing of *in vitro* cell assays, including: immunoreactivity, receptor binding affinity and specificity assays on tumor cells, cytotoxicity tests (e.g. cell proliferation, clonogenic assay, DNA double-strand break analysis), 3D cell culture etc.;
- supervision over ongoing doctoral and master's theses;
- writing reports, publication and conference abstracts.

Deadline for submitting documents: 6th January 2025 23:59 CET

Type of contract:

- employment contract (full-time, 8 hours/day) for 12 months, with a salary of PLN 10000 total gross;
- interdisciplinary cooperation with national (e.g. National Centre for Nuclear Research, University of Warsaw) and international scientific institutions (e.g. Vrije Universiteit Brussel, Czech Technical University, Duke University – Durham/USA);
- possibility of professional development within the position taken;
- work with the use of modern research equipment.

Recruitment procedure:

- e-mail – please send documents to the Principal Investigator Marek Pruszyński, PhD, DSc: m.pruszynski@ichtj.waw.pl with the title of the email: "*Post-doc position project No 2019/34/E/ST4/00080*" (emails without this title will not be considered);
- top candidates will be invited for an online or in-person interview. Good command of English is required. We reserve the right to contact and reply to only selected candidates;
- the incomplete applications will be not considered.

Required documents:

- CV presenting the candidate's scientific achievements and experience;
- motivation letter;
- reference letters (min. 1) from academic/professional referees;
- a copy of the doctoral diploma.

1. The Controller of your personal data is the Institute of Nuclear Chemistry and Technology in Warsaw at 16 Dorodna Street, 03-195 Warsaw, hereinafter referred to as the Controller.
2. The Controller has appointed a Data Protection Officer. The Controller or the Data Protection Officer can be contacted via email address: iod@ichtj.waw.pl
3. Your personal data will be processed for the purpose of the recruitment process - on the basis of Article 6(1)(b) of the Regulation (EU) 2016/679 of the European Parliament and of the Council of April 27, 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC (General Data Protection Regulation) (hereinafter: " GDPR ") or Article 6(1)(c) of the GDPR.
4. Recipients of your personal data will be only entities authorized to obtain personal data under the law (e.g., courts, tax authorities) and entities participating in the implementation of services for the Controller, such as providers of IT solutions, legal services or insurance company. Data may also be shared with entities supporting or contracting the Administrator's activities (verification, evaluation, monitoring).
5. Your personal data will be processed for the duration of the recruitment process.
6. You have the right to request from the Controller access to your personal data, the right to rectify, erase or restrict processing, the right to data portability, and the right to withdraw consent to the processing of personal data at any time, where withdrawal of consent does not affect the lawfulness of processing carried out on the basis of consent before its withdrawal. You also have the right to object to processing based on the legitimate interests of the Controller - on grounds relating to your particular situation.
7. You have the right to lodge a complaint with a supervisory authority.
8. The provision of your personal data is voluntary, however, refusal to provide data may result in your inability to participate in the recruitment process.