

**IBCH PAS RECRUITMENT PROCEDURE NO. 14/2024/SN
FOR THE POSITION OF A POSTDOCTORAL RESEARCH ASSISTANT**

INSTITUTION: Institute of Bioorganic Chemistry, Polish Academy of Sciences,
Department of Structural Biology of Eukaryotes
CITY: Poznań
POSITION: assistant professor (post-doc)
POSITIONS AVAILABLE: 1
SCIENTIFIC DISCIPLINE: chemistry
PUBLICATION DATE: **June 28, 2024**
APPLICATION DEADLINE: **August 9, 2024**
WEBSITE: <https://portal.ibch.poznan.pl/homepage>

KEY WORDS: drug design, anticancer drugs, medicinal chemistry, enzyme inhibitors, macromolecular structure
Principal Investigator: dr hab. Miłosz Ruzkowski

Research topic: Our research aims to develop small molecules that downregulate 1C metabolism in cancer cells by inhibiting SHMT2, its key enzyme. This groundbreaking work involves multimethod screening and structure-based drug discovery to identify and optimize potent SHMT2 inhibitors.

As a medicinal chemist on our team, you will:

- **Participate in high-throughput screening campaigns:** Identify most potent hits from broad chemical libraries using *in vitro*, *in crystallo*, and *in silico* methods.
- **Optimize Hit Compounds:** Improve the inhibitory properties of identified hits using state-of-the-art software to create novel molecules with enhanced efficacy
- **Collaborate with Experts:** Work closely with a multidisciplinary team, including chemists, biologists, biochemists, structural biologists, and other experts.
- **Conduct Comprehensive Validation:** Assess the biological activity of your compounds through *in vitro*, *in cellulo*, and *in vivo* studies.

We offer this position within the research project Sonata-BIS 13 project no. 2023/50/E/NZ7/00501, entitled “**Design and Development of Serine Hydroxymethyltransferase-2 (SHMT2) Inhibitors Blocking Tumor Growth**”, financed by the National Science Centre, Poland.

IBCH PAS is one of leading research institutes in Poland and conducts research in the field of chemistry, molecular biology and biomedicine. The Institute provides access to cutting-edge research equipment.

I. Requirements for the candidates:

1. PhD degree in chemistry or a related discipline. *
2. Experience in organic synthesis, incl. capability of designing and planning synthetic routes.
3. Well-documented research output in the form of research papers.
4. Ability to make responsible decisions without supervision and adaptability to teamwork.
5. Good command of English, enabling efficient communication and preparation of research papers.
6. Experience in measuring enzyme inhibition, working with human cell lines, or computational chemistry will be considered as assets but are not a prerequisite.

*In accordance with the requirements of the National Science Center, only those candidates who have been conferred a PhD degree in the year of employment in the project or within 7 years before 1 January of the year of employment in the project. This period may be extended by a time of long-term (in excess of 90 days) documented sick leaves or rehabilitation leaves granted on account of being unfit to work. In addition, the period may be extended by the number of months of a childcare leave granted pursuant to the Labor Code and in the case of women, by 18 months for every child born or adopted, whichever manner of accounting for career breaks is preferable.

Pursuant to the regulations of the National Science Center, only candidates who have been awarded a PhD degree by another institution than the one planned to employ them at this post or they have completed a continuous and evidenced post-doctoral fellowship of at least 10 months in another institution than the host institution for the project and in another country than the one in which they have been conferred a PhD degree.

II. Job Responsibilities:

1. Leading role in organic synthesis.
2. Assistance during the execution of high-throughput.
3. Setting up crystallizations and (after training) solving of protein-ligand complex structures.
4. Significant input during design of new compounds.
5. Assistance during *in cellulo* experiments; after training performing the assays unsupervised.
6. Manuscript preparation.
7. Day-to-day supervision of the PhD student.

III. Required documents:

1. Cover letter of application to the Director of IBCH PAS featuring contact details to at least two referees.
2. Copy of the doctoral diploma.
3. CV featuring information on the candidate's scientific track record, including:
 - the list of papers published in journals listed in the Web of Science (WoS) database, stating the IF in accordance with WoS, number of citations and the H-index.
 - list of patents;
 - information on the previously managed projects or participation in project implementation;
 - information on the accomplished research internships;
 - information on the awarded prizes and distinctions.

IV. Applications must be submitted via the eRecruiter portal

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=369d500632f043e5ab8fe6b7b18c9856>

V. The submission deadline is August 9, 2024.

VI. Selection of candidates:

Following preliminary verification, on the basis of the application documents, selected candidates will be invited to an interview, as a result of which a candidate recommended for employment shall be appointed. The main criteria, taken into consideration during the selection of the candidates, will be: (i) research output (research papers published), (ii) compliance of the previous experience with the tasks planned within the framework of the project (in the following order: organic synthesis, enzyme inhibition assays, working with cell lines or computational chemistry), (iii) experience gained during a long-term, foreign internship.

VII. The recruitment procedure shall be concluded no later than on August 26, 2024.

VIII. Start and duration of the position.

Employment is available from the end of the recruitment procedure.

The position is available for the period of 57 months. Monthly full remuneration cost approximately 11667 PLN (total employment cost; ca. 9600 PLN gross/month).

IX. Employment shall take place in compliance with the provisions of the Labor Code of Poland.

For more details, please contact:

dr hab. Miłosz Ruszkowski, e-mail: mruszkowski@ibch.poznan.pl

Information clause:

Pursuant to the stipulations of the regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 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), further referred to as GDPR, we hereby inform that:

- *The Institute of Bioorganic Chemistry, Polish Academy of Sciences, seated in Noskowskiego St. 12/14, 61-704 Poznan; REGON 000849327, NIP 777-00-02-062 is the administrator of the collected personal data (further referred to as the Institute).*
- *The Administrator appointed a Data Protection Officer, who can be contacted in writing, via traditional mail, by sending a letter to the following address: Z. Noskowskiego St. 12/14, 61-704 Poznan, or by sending an e-mail to: dpo@ibch.poznan.pl.*
- *The personal data of the candidates is processed for the purposes of fulfilling the tasks of the administrator, associated with conducting the recruitment procedure for a vacant position.*
- *The legal basis for processing personal data is the Act of 26 June 1974 – The Labor Code, Act of 30 April 2010 on the Polish Academy of Sciences or the consent of the person whose data shall be subjected to processing.*
- *Your personal data shall be subjected to processing for period of 3 months upon the date of decision of the recruitment committee. Following this period, the data will be irretrievably and effectively destroyed.*
- *The personal data of the candidates shall not be transferred to any third country.*
- *The person whose data shall be subjected to processing has the right to:*
 - *request access to his/her personal data, and to amend it or delete it, pursuant to articles 15-17 of GDPR;*
 - *limit data processing, in the events stipulated in article 18 of GDPR;*
 - *data transferring, pursuant to article 20 of GDPR;*
 - *withdraw consent at any moment, without influencing compliance with the law of the processing that was executed prior to consent withdrawal;*
 - *file a complaint to the Inspector General for Personal Data Protection.*

Providing personal data in the scope stipulated in article 22 (1) of the Act of 26 June 1974 – The Labor Code is mandatory, whereas providing data in a broader scope is voluntary and requires consent for its processing.