INSTITUTE OF BIOORGANIC CHEMISTRY
Polish Academy of Sciences

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IBCH PAS RECRUITMENT PROCEDURE NO. 10/2025/SN
CALL FOR APPLICATIONS FOR A POST-DOC POSITION

INSTITUTION:	Institute of Bioorganic Chemistry, PAS
ADDRESS:	12/14 Noskowskiego Str., 61-704 Poznan
POSITION:	post-doc
POSITIONS AVAILABLE:	1
SCIENTIFIC DISCIPLINE:	biological sciences
PUBLICATION DATE:	July 9th, 2025
APPLICATION DEADLINE:	August 14th, 2025
IBCH PAS WEBSITE:	https://portal.ichb.pl/homepage/
KEYWORDS:	Membrane transport, ABC proteins (ATP-binding cassette proteins), post-translational protein modifications, protein–protein interactions, in silico molecular modeling, molecular biology, in vitro plant cultures, Medicago.
Principal Investigator:	Professor Michał Jasiński
Research topic	Identification of intrinsic and extrinsic factors determining higher plant ABC transporter directionality.

I. Project description

The outcome of this project will provide a better mechanistic understanding of ABC transporter functionality in general. Moreover, using a mix of biochemical, in silico and structural tools we will decipher how transport directionality of ABC transporters is regulated, either intrinsically encoded or provided by external factors. The translocation mechanism of ABC transporters is usually described in terms of the alternating access model involving inward-facing and outward-facing states, with the transitions between states coupled to the binding and hydrolysis of ATP. Importantly, this conformation initiating the transport process can be reinforced by intrinsic (encoded in the primary structure) or extrinsic factors (protein modification and/or protein-protein interaction). Currently, it is unknown what kind of intrinsic or extrinsic elements impact transport directionality. Therefore, we aim to decipher these elements in several higher plant ABCGs. In order to do so, we will use *inter alia* two well-characterized ABCG56/40 16,17 from Medicago (legume model plant), as prototypes.

The research will be carried out as part of the project titled *"Learning from plants: Identification of internal and external factors determining the polarity of ABC transporters in higher plants"*, funded by the Swiss National Science Foundation (SNSF) under the MAPS Multilateral Academic Projects initiative and in collaboration with the National Science Centre (NCN).

II. Requirements for the candidates:

The candidate should have:

1. A doctoral degree (or equivalent) in the field of biological sciences or bioinformatics;
2. The ability to plan and conduct biological experiments and visualize results;
3. Knowledge in the areas of transport biochemistry, molecular biology, working with plant in vitro cultures, protein sequence analysis including in silico modeling, and topics related to the project; basic knowledge of mass spectrometer operation will be an additional asset.

4. very good command of English, enabling effective communication, as well as the reading and preparation of scientific papers.
5. strong motivation for further development, be characterized by independence, good organizational skills, effective communication, and the ability to work in a team.

III. Duties in the project:

1. Active involvement in the implementation of the project, i.e., planning and conducting experiments as well as processing and interpreting results, particularly conducting related in silico structural analyses alongside biochemical transport experiments.
2. Continuously expanding knowledge in areas relevant to the project.
3. Preparing scientific publications.
4. Supervising the work of students and PhD students.
5. Presenting results at seminars, scientific meetings, and conferences.

IV. Required documents:

1. Application to the Director of IBCH PAN, containing contact details of previous scientific supervisors or other scientific employees who can give an opinion on the candidate.
2. A copy of the diploma confirming the achievement of the doctoral degree.
3. Scientific CV containing, among others, information on scientific, didactic and organizational achievements, including a list of scientific publications, information on management or participation in research projects.

V. Applications should be submitted via the eRecruiter portal at

https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=431fd82a0f5a465dbec1c198a7cf20a7

VI. Submission deadline is **August 14th, 2025.**

VII. After an initial verification based on the submitted documents, selected candidates will be invited to a job interview, during which the candidate recommended for employment will be chosen. The main criteria considered in the selection process will include: (i) scientific achievements (publications), (ii) relevance of previous experience to the research tasks planned within the project, and (iii) experience gained during research internships.

VIII. The recruitment procedure shall be concluded no later than **August 31st, 2025**

IX. Additional Information:

The position is available immediately (depending on the competition results) and is offered for a maximum period of **48 months**, with the possibility of extension. The expected gross salary is approximately PLN **8 000** per month. Employment will be in accordance with the provisions of the Labor Code.

For additional information please contact the Principal Investigator:

prof. dr hab. Michał Jasiński
e-mail: jasinski@ibch.poznan.pl
oraz
dr Joanna Banasiak
e-mail: joaban@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:

1. *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).*
2. *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.*
3. *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.*
4. *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.*
5. *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.*
6. *The personal data of the candidates shall not be transferred to any third country.*
7. *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.

Protection for whistleblowers

In the case of reporting violations using a dedicated system for whistleblowers, the reporting person's data will be processed in accordance with applicable provisions on the protection of personal data, including the above-mentioned Regulation (EU 2016/679 of 27 April 2016). We ensure confidentiality and protection of the identity of reporting persons, and that their data will not be disclosed without their consent, unless the law provides otherwise.

Detailed rules regarding the protection of personal data and procedures for reporting violations of the law can be found in our Regulations on internal reporting at the Institute of Bioorganic Chemistry, Polish Academy of Sciences, available at the link: https://portal.ichb.pl/wp-content/uploads/2024/10/INTERNALREPORTINGREGULATIONS.pdf