INSTITUTE OF BIOORGANIC CHEMISTRY
Polish Academy of Sciences

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ICHB PAN RECRUITMENT NO. 9/2026/SN
FOR POST-DOC POSITION

INSTITUTION:	Institute of Bioorganic Chemistry, PAS
ADDRESS:	12/14 Noskowskiego Str., 61-704 Poznan
POSITION F/M:	post-doc
POSITIONS AVAILABLE:	1
SCIENTIFIC DISCIPLINE:	biological sciences
PUBLICATION DATE:	28.08.2026
APPLICATION DEADLINE:	30.09.2026
IBCH PAS WEBSITE:	https://portal.ichb.pl/homepage/
KEYWORDS:	tryptophan metabolism, specialized metabolites, Arabidopsis thaliana, metabolomics, LC-MS, metabolic engineering, plant microbiome
Principal Investigator:	Prof. Paweł Bednarek
Research topic	Specialized tryptophan metabolism in the regulation of plant microbiome bacteria

I. Project description

The project aims to determine how tryptophan-derived specialized metabolites selectively control potentially pathogenic bacteria within the plant microbiome. Using *Arabidopsis thaliana* as a model, we will investigate mutants impaired in individual branches of tryptophan metabolism and transgenic lines producing native or non-native metabolites. The project combines plant molecular biology and metabolic engineering with targeted and untargeted LC/UV and LC/MS metabolomics. Comparison of metabolic profiles of plants colonized by selected bacterial isolates will identify compounds that restrict bacterial pathogenicity and reveal mechanisms by which plants regulate their microbiota.

Research shall be carried out within the OPUS 30 project no. 2025/59/B/NZ2/03241 entitled “Specialized tryptophan metabolism in the control of potentially pathogenic bacteria in the plant microbiome”, funded by National Science Centre.

II. Requirements for the candidates:

The candidate should have:

1. Ph.D. (or equivalent) in biological, biochemical, biotechnological, chemical sciences, or a related discipline.
2. Research experience in at least one of two areas: (i) plant molecular biology/genetics, including cloning, generation and characterization of mutants or transgenic lines and gene-expression analysis, or (ii) analytical biochemistry/metabolomics, particularly chromatographic and/or LC-MS analyses.
3. Willingness to work across disciplines and develop skills in the complementary area; prior experience in both plant molecular biology and metabolomics is not required.
4. Background in plant biology and/or biochemistry; experience with *Arabidopsis thaliana*, plant specialized metabolism, plant-microbe interactions, CRISPR/Cas, or LC-MS/MS will be considered an asset.
5. Ability to analyze and interpret experimental data; experience with metabolomics data processing and basic statistical analysis will be considered an asset.

6. Very good command of English, enabling effective communication and the reading and preparation of scientific papers.
7. Strong motivation for scientific research, independence, good organizational and communication skills, and the ability to work effectively in a team.

*According to NCN requirements, only individuals who obtained a doctoral degree no earlier than 12 years before the year of employment in the project may be admitted. This period may be extended by the time spent on long-term (over 90 days) documented sickness benefits or rehabilitation benefits due to incapacity for work. Additionally, the period may be extended by the number of months spent on leave for the care and upbringing of children, as specified under the Labor Code. For women, this period may also be increased by 18 months for each born or adopted child if this method of accounting for breaks in the scientific career is more advantageous.
Furthermore, according to NCN requirements, individuals who obtained a doctoral degree at an institution other than the Institute of Bioorganic Chemistry of the Polish Academy of Sciences, or those who earned the degree at ICHB PAN but completed a continuous and evidenced fellowship of at least 9 months during their studies at the doctoral school, during doctoral studies, or following the award of a PhD in another institution than the host institution for the project and in another country than the one in which they have been conferred their PhD.

III. Duties in the project:

1. Active involvement in the project: experiments with *Arabidopsis thaliana* and selected bacterial isolates; generation and characterization of mutants and transgenic lines, including gene-expression analysis; sample preparation and targeted and untargeted metabolomic analyses (LC/UV, LC-MS/MS).
2. Data processing and interpretation, preparing summaries and reports.
3. Continuously expanding knowledge in areas relevant to the project.
4. Preparing scientific publications.
5. Supervising the work of students and PhD students.
6. Presenting results at seminars, scientific meetings, and conferences.
7. Data management.

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=c444aaead27b433f98a36d0504a463ea

VI. Submission deadline is **30th September, 2026.**

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 **21st October, 2026.**

IX. Additional Information:

The position is available from October 2026 and is offered for a period of 48 months. The expected salary is approximately PLN 10 250 gross. Employment will be in accordance with the provisions of the Labor Code.

For additional information please contact the Principal Investigator:
Prof. Paweł Bednarek
e-mail: bednarek@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