

**IBCH PAS RECRUITMENT PROCEDURE NO. 14/2021/SN
FOR THE POSITION OF A POSTDOCTORAL RESEARCH ASSISTANT**

INSTITUTION: Institute of Bioorganic Chemistry, PAS
CITY: Poznan
POSITION: Research assistant/assistant professor (post-doc)
POSITIONS AVAILABLE: 1
SCIENTIFIC DISCIPLINE: biological sciences
PUBLICATION DATE: **27.07.2021**
APPLICATION DEADLINE: **31.08.2021**
IBCH PAS WEBSITE: <http://www.ibch.poznan.pl>

KEY WORDS: Specialized metabolites, plant immunity, glucosinolates, Brassicaceae, *Arabidopsis thaliana*

We offer a research assistant/assistant professor (post-doc) position within the **OPUS 20 project no. 2020/39/B/NZ2/03426**, entitled “**Molecular basis of glucosinolate modification and activation in the immunity of Brassicaceae species**”, funded by National Science Centre

Principal Investigator: Prof. Paweł Bednarek

I. Project description

Plants produce a number of specialized metabolites to communicate with their environment and to defend against their foes including herbivores and microbial pathogens. Species from the cabbage family, which includes oilseed rape, numerous vegetables and the model plant *Arabidopsis thaliana*, have capacity to produce unique thioglucosides known as glucosinolates. In response to the environmental stresses, these compounds can be rapidly activated to bioactive products that deter herbivorous insects and contribute to the protection of plant tissue from colonization with different pathogens. During this project we would like to focus on enzymes involved in modification of tryptophan-derived indole glucosinolates and subsequent activation of these compounds for antifungal defense. Both, modification and activation are indispensable for the function of indole glucosinolates in plant immunity. The few investigated enzymes will include phytochelatase synthase, an interesting protein with an established function in plant tolerance to heavy metal ions that in the cabbage plant family most likely evolved a novel additional function by being recruited into the pathogen-triggered activation of indole glucosinolates. To these end we would like to characterize the residues of this enzyme that are indispensable for this new function in plant immunity.

I. Requirements for the candidates:

1. A PhD degree (or equivalent) in plant molecular biology, biotechnology or biochemistry*
2. Documented research output in the form of research papers, published in distinguishable research journals (found in the Web of Science database, including those with first authorship), and presentations at conferences.
3. Experience in molecular biology techniques (molecular cloning, qRT-PCR, western blot) and/or biochemical techniques (chromatography).
4. Interest in developing own skills and teamwork ability.
5. Proficiency in spoken and written English.

*In accordance with the requirements of the National Science Center, only those candidates who received their PhD degree no earlier than 7 years prior to the date of employment within the research project, excluding parental or related leaves governed by the stipulations of the Labor Code, rehabilitation period associated with rehabilitation allowances or other rehabilitation benefits, are eligible for recruitment. In such cases, the aforementioned 7-year period shall be extended by additional 18 months for every descendant or adoptee. Female applicants may choose the way of justifying breaks in their research career, which is more favorable in a given case.

Pursuant to the regulations of the National Science Center, only candidates who obtained their PhD degree at an institution other than the Institute of Bioorganic Chemistry, PAS, are eligible for the position.

II. Duties in project:

1. Generation of transgenic plants, including plasmid preparation, expressing different variants (orthologs, mutants, chimeras) of phytochelatin synthase.
2. Initial characterization of obtained transgenic lines (gene expression, protein levels and metabolite production).
3. Investigation of immune responses of selected lines.
4. Tight collaboration with the remaining team members including supervision of a PhD student.
5. Processing of the obtained results, data management, internal reporting, dissemination of results and manuscript preparation.

III. Required documents:

1. Letter of application to the Director of IBCH PAS.
2. Copy of the doctoral diploma.
3. Scientific CV encompassing track record of previous education and employment, and 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.
4. Contact details of at least one, previous scientific supervisor or another researcher who can deliver a letter of recommendation.

IV. Applications should be submitted via the eRecruiter portal at

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=01a859dc0aad455090e44cb6d69b5da9>

V. Submission deadline is **31.08.2021**

VI. 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) and (ii) compliance of the previous experience with the tasks planned within the framework of the project.

VII. The recruitment procedure shall be concluded no later than **30.09.2021**

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

Position is available from October 4th, 2021. Maximum period of contract agreement: 48 months.

Remuneration: 8 150 PLN gross/month.

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:

- *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.