

**IBCH PAS RECRUITMENT PROCEDURE NO. 6/2022/SN
FOR THE POSITION OF A POSTDOCTORAL RESEARCH ASSISTANT**

INSTITUTION: Institute of Bioorganic Chemistry, Polish Academy of Sciences,
Department of Molecular Neurobiology
CITY: Poznan
POSITION: assistant professor (post-doc)
POSITIONS AVAILABLE: 1
SCIENTIFIC DISCIPLINE: biology, neurobiology
PUBLICATION DATE: **22 March 2022**
APPLICATION DEADLINE: **30 April 2022**
WEBSITE: <https://portal.ibch.poznan.pl/homepage>

KEY WORDS: neurodegenerative disease, SCA3, spinocerebellar ataxia 3, ataxin-3, ATXN3, SCA3 mouse, knock-in, mutant protein, PolyQ, CAG repeats, autophagy, proteasome, organoids, iPSC

Principal Investigator: Dr hab. Maciej Figiel prof. ICHB

Research topic: Spinocerebellar ataxia type 3 (SCA3) is an incurable genetic neurodegenerative disease caused by a special type of mutation, which results in an increased number of CAG nucleotide repeats in the ATXN3 gene sequence. The mutation in the ATXN3 gene leads to the formation of defective ataxin-3 protein, which forms toxic aggregates in the cell. Ataxin-3 plays an important role in regulating which proteins should be removed in the cell by different cellular mechanisms of controlled removal of cell fragments (proteins and organelles). Ataxin-3 recognizes a tag on proteins called "ubiquitin" that directs a protein or cell fragment to degradation. Ataxin-3 is able to detach this tag from the protein, thereby preventing premature or incorrect proteins removal from the cell. The detailed mechanisms that result from ATXN3 mutation and cause the SCA3 disease are not known yet. Therefore, in this project, we will examine if enforcing the controlled removal of certain cell fragments will repair the disrupted cellular processes resulting from the ATXN3 mutation.

We hope that thanks to this project, we will learn more about the special role of one of the key pathogenic processes in SCA3 related to the dysfunction of protein clearance mechanisms. A detailed study of this mechanism will provide a better understanding of SCA3 and other neurodegenerative diseases, which will enable designing a proper treatment.

We offer the position of a PhD within OPUS NSC research project OPUS 21 nr 2021/41/B/NZ2/03881 entitled: Investigation of a new therapeutic strategy to lower mutant protein in SCA3/MJD, financed by the National Science Centre, Poland.

ICHB PAN is one of the leading research institutions in Poland and conducts research activities in the field of chemistry, molecular biology and biomedicine. The Institute provides access to state-of-the-art technics and advanced research equipment.

I. Requirements for the candidates:

- PhD degree in one of the following: cell biology, molecular biology or neurobiology or similar research areas*
- Experience in working with animals (mice) or
- Experience in working with primary cell lines
- Comprehensive knowledge of molecular biology techniques
- Experience confirmed by scientific achievements: co-authorship of publications, internships and trainings
- Excellent manual skills in performing experiments

- Great ability to think analytically, interpret experiments and formulate conclusions
- Very high motivation for further development and ability to work in a team
- Above-average self-organization and the ability to manage time pressure in a 3-year project
- Fluency in English (both in speech and in writing)

Selected skills, knowledge of which may be helpful:

- Experience in the preparation and purification of native and recombinant proteins
- Experience in design and execution of chromatographic experiments such as SEC.
- Experience in working with primary neurons, glial cells and iPSC and organoids
- Bioinformatic experience

*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. Job Responsibilities:

1. Creative implementation of all aspects of research project
2. Interpretation and reporting of the results of the analyzes carried out
3. Preparation of scientific reports in the form of publications and participation in scientific conferences
4. Supervision of PhD students
5. Participation in the preparation of scientific manuscripts

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 should be submitted via the eRecruiter portal

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=02e8e3c1fe5d4a71a4721f2eef4917>

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V. The submission deadline is April 30, 2022.

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: genetics, cancerous diseases, some other experience in

molecular biology/biotechnology or computational biology), (iii) experience gained during a long-term, foreign internship.

VII. The recruitment procedure shall be concluded no later than on May 30, 2022.

VIII. Start and duration of the position.

Employment is available instantly (depending on the result of the recruitment procedure). The position is available for the period of 36 months. The estimated gross salary is ca. 8 300 PLN/month.

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

For more details, please contact:

dr hab. Maciej Figiel prof. ICHB

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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.