

**Recruitment for the Poznań Doctoral School of the Institutes of the Polish Academy of Sciences  
at the Institute of Bioorganic Chemistry, PAS in Poznań  
Procedure no. 5/2026/ICHB/PSD**

INSTITUTION: Institute of Bioorganic Chemistry, PAS  
CITY: Poznań  
POSITION F/M: PhD student  
POSITIONS AVAILABLE: 1  
SCIENTIFIC DISCIPLINE: biological.sciences  
PUBLICATION DATE: 23.03.2026  
APPLICATION DEADLINE: 04.05.2026  
IBCH PAS WEBSITE: <https://portal.ichb.pl/homepage/>  
PDS IPAS WEBSITE: <https://psd-ipan.ichb.pl/index.php/en/home/>

**KEY WORDS:** long non-coding RNA, mitochondrial RNA import, RNA sequencing

Research topic: Jump in with a splash: exploring long noncoding RNA import into mitochondria and its biological implications

Principal Investigator: Dr. Barbara Uszczyńska-Ratajczak, DSc.

### **I. Project description:**

Mitochondria are essential components of nearly all living cells, acting as powerhouses that produce energy and serve as key communication hubs. While they contain their own small genome, mitochondria rely on proteins and RNA molecules produced elsewhere in the cell to function properly. These imported components help mitochondria adapt to changes and maintain communication with other cellular compartments. Although previous research has primarily focused on how proteins are transported into mitochondria, recent studies have revealed that long noncoding RNAs (lncRNAs) also enter mitochondria and play important regulatory roles. Interestingly, some lncRNAs can move bidirectionally—both into and out of mitochondria. However, the mechanisms by which specific lncRNAs are selected for mitochondrial import remain poorly understood. It is thought that certain sequences or structural motifs in the RNA may direct this transport.

The aim of this project is to generate a comprehensive map of all lncRNAs imported into mitochondria in mouse cells. We will analyze their sequence and structural features, genomic properties, and predicted functions using advanced computational approaches. Furthermore, we will investigate how mitochondrial lncRNA profiles change under stress conditions. By studying these dynamics, we hope to uncover novel roles of lncRNAs in mitochondrial function and cellular adaptation. Additionally, the project will explore interactions between mitochondria and other RNA types, offering a broader view of intracellular communication.

### **Additional information:**

1. Research and doctoral theses shall be carried out within the project 2024/53/B/NZ3/03975 entitled “Jump in with a splash: exploring long noncoding RNA import into mitochondria and its biological implications”, funded by National Science Center
2. PhD students shall receive a stipend in the gross amount of ca 4300.00 PLN (3800.00 PLN net) for the period of 24 months with the possibility of extending up to 48 months, and with the possibility of increasing the amount of the stipend after the mid-term evaluation (in accordance with the current regulation of the Minister - 5340.90 PLN gross).

3. PhD students shall be subject to social insurance, pursuant to article. 6 section 1 passage 7b of the act of October 13th, 1998 on the social insurance system (Journal of Laws of 2019, item 300, 303 and 730).
4. Possibility of using the Multisport card, group insurance, social benefits (co-financing of holiday leave, refund of tickets for cultural events).

## II. Requirements for the candidates:

1. MSc degree in biology or a related field, or fulfilling the conditions stipulated in article 186, section 2 of the Act of July 20th, 2018, Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended).
2. Experience in laboratory work in the field of molecular biology or experience in the field of bioinformatics.
3. Experience with RNA, mitochondrial isolation, subcellular fractionation, and RNA library preparation for sequencing will be considered an asset.
4. Ability to analyze RNA-seq data (short and long reads) and proficiency with bioinformatics tools used in transcriptome analysis.
5. Documented scientific productivity, e.g. authorship in scientific publications, skills in writing scientific papers and grant proposals.
6. Excellent interpersonal skills, initiative, and the ability to work both independently and within a demanding research team.
7. Very good spoken and written English.

## III. Duties in project:

1. Conducting laboratory experiments involving RNA isolation, subcellular fractionation, and RNA library preparation for sequencing.
2. Participating in the development and implementation of experimental and bioinformatic methods for the identification and analysis of lncRNAs imported into mitochondria.
3. Performing transcriptomic data analysis.
4. Interpreting results and integrating experimental and bioinformatic data
5. Preparing presentations and reports on project progress, contributing to scientific publications, and presenting results at conferences.

## IV. Required documents:

1. Application for admission to PDS IPAS along with the consent for processing personal data upon the recruitment procedure and a statement on having acknowledged the regulations of recruitment for PDS IPAS, using form downloaded from: [IBCH Application for admission](#)  
**Applications without the aforementioned consent will not be considered.**
2. Certified copy of the diploma confirming graduation or a certificate confirming graduation (in the case of diplomas issued by foreign higher education schools - the diploma entitling to apply for conferment of a doctoral degree in the state of origin). Additional information on foreign school diplomas are available at: <https://nawa.gov.pl/en/recognition/recognition-for-academic-purposes/applying-for-admission-to-doctoral-studies>. If a document that raises doubts is submitted, the application will not be considered because the time required for its verification would make it impossible to complete the competition within the set deadline. **We recommend a submission of the Individual Recognition Statement**, obtained from the SYRENA system or another government institution, such as the Regional Authentication Center, **which can significantly speed up the recruitment process.**
3. The candidate will be obliged to present the originals of the aforementioned documents before or on the day of commencement of the education at the doctoral school PDS IPAS.

4. Scientific CV encompassing track record of previous education and employment, information on involvement in scientific activities (participation in student research groups, attendance at scientific conferences, accomplished internships and training, awarded prizes and distinction), and a list of publications.
5. Cover letter featuring a short description of research interests, achievements and justification for the intention to commence education at the doctoral school.
6. Certificates or other documents confirming the degree of proficiency in English, if the candidate is in possession of such materials.
7. Contact details of at least one, previous scientific supervisor or another researcher who is entitled to issue an opinion on the candidate.

V. Applications should be submitted via the eRecruiter portal at:

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=6899a96b1a2240f296702155faf0bd0b>

VI. Submission deadline is **04.05.2026**

#### VII. Criteria for evaluation of candidates:

1. Candidate's research achievements, pursuant to the grades obtained in the course of studies, scientific publications, awarded scholarships and distinctions resulting from conducting scientific research or student activities or other achievements.
2. Candidate's scientific and professional experience, pursuant to participation in conferences, workshops, training sessions and internships, implementation of research and commercial projects, involvement in scientific trusts and societies, international and professional mobility, experience in other sectors, including industry.
3. Candidate's knowledge on the following discipline: biological sciences.
4. Knowledge of the subject matter described in the recruitment advertisement.

VIII. The recruitment procedure shall be concluded no later than **15.06.2026**

The results of recruitment will be announced on the PDS IPAS website:

<https://psd-ipan.ichb.pl/index.php/en/home/>

IX. The description of the recruitment process is stipulated in the Regulations of Recruitment for PDS IPAS, to be found on the PDS IPAS website. Following the recruitment procedure, the unadmitted candidates will be informed on the number of points obtained at both stages.

For additional information please contact the Principal Investigator:

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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:*

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](mailto: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>