

# PhD student position in the Laboratory of Cellular Proteostasis

The Laboratory of Cellular Proteostasis <https://shorturl.at/zUq03> at the International Institute
of Molecular and Cell Biology in Warsaw, headed by Lidia Wróbel, PhD, is looking for a **PhD student**.

You will join the project entitled “Spatial organisation of protein quality control in neurodegenerative diseases” carried out as the EMBO IG grant (grant agreement no. EMBO IG-6019-2025) Supported by the Ministry of Science and Higher Education, Poland.

**Aim of the project:** In this project, using CRISPR/Cas9-mediated screening and advanced human neuronal models, we would like to understand how mutations associated with neurodegenerative diseases affect nuclear proteostasis, especially the nuclear ubiquitin-proteasome system. Results obtained within this project will reveal insights into pathogenesis and could facilitate new therapeutic approaches for restoring cellular proteostasis.

As a **PhD student** you will be responsible for conducting CRISPR/Cas9-based screen using flow cytometry and confocal microscopy methods. You will be responsible to analyse the data and perform preliminary experiments with candidate genes. This will be followed by functional studies of identified genes using a variety of biochemical and molecular biology methods. Your role will also include conducting literature reviews to contextualize your findings, actively participating in lab meetings, presenting your work at national and international conferences, and contributing to the writing of research publications and your PhD thesis.

### **The admissions process is conducted through the Doctoral School website system. The PhD student can apply to this specific project carried out as part of the Warsaw-4-PhD doctoral school via website** <https://shorturl.at/cJKQY> **(the application system will be activated from** **19th of May 2025; deadline for sending application** **is 1st of June, 2025).** For more information, please follow the link <https://shorturl.at/mvxOR>

Candidates will be selected according to the recruitment procedure for the Warsaw-4-PhD
and the procedure complying with the rules of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers as a part of HR Excellence in Research Strategy <https://bit.ly/3U0dydP>

**Requirements for the candidate:**

* Master's degree in biology, biotechnology, biochemistry or related field
* Solid knowledge in at least one of the following disciplines: molecular biology, biochemistry, cell biology, neuroscience, high-throughput screening
* Understanding of mechanisms important for cellular proteostasis
* Basic hands-on experience in one of the fields: molecular biology, cell biology, fluorescent microscopy
* Prior experience in working with human induced pluripotent stem cell (iPSC)-derived neurons would be an advantage but not essential
* Interest in cellular proteostasis and neurodegeneration
* Written and spoken fluency in English
* Willingness to learn and take on new challenges, ability to work independently, analytical thinking
* Good interpersonal skills and a collaborative attitude

**We offer:**

1. Full-time PhD scholarship 4 years (8 semesters) in amount:

a) before the mid-term evaluation 4800 pln net/month;

b) after mid-term evaluation 5300 pln net/month

1. Position with 100% focus on research (no teaching obligations)
2. Benefits including reduced-rate for an individual private medical care package and membership in MultiSport programme
3. Full technical, administrative and organizational support from professional English-speaking personnel
4. Participation in courses, scientific training, support from peers, and academic mentoring

Deadline for applications is **1st of June, 2025.** The winter semester at the Doctoral School shall begin on **1st of October, 2025.**

**How to apply:**

* Apply via website <https://shorturl.at/cJKQY> (the application system will be activated from
19th of May, 2025; deadline for sending application is 1st of June, 2025). If you have
any enquiries about the recruitment process or the project, please send your request
to lwrobel@iimcb.gov.pl
* Please include the following statement in your email: *“I hereby agree to the processing
of my personal data, included in the application documents by the International Institute of Molecular and Cell Biology in Warsaw, 4 Księcia Trojdena Street, 02-109 Warsaw, for the purpose of carrying out the* *current recruitment process.”* Your personal data will be processed for the purpose of the recruitment procedure by the International Institute of Molecular and Cell Biology in Warsaw. Full information is available under the link <https://bit.ly/3UFWpY2>
* Procedure for reporting irregularities, taking follow-up actions, and protecting whistleblowers: <https://shorturl.at/u2mww>

