



Two PhD students positions in the Laboratory of Molecular and Cellular Neurobiology

The Laboratory of Molecular and Cellular Neurobiology <https://url-shortener.me/1L0C> at the International Institute of Molecular and Cell Biology in Warsaw, headed by Prof. Jacek Jaworski is looking for **two PhD students**.

You will join the project entitled “Destabilization of neuronal morphology in chronic inflammation: molecular mechanisms and identification of potential therapeutic agents.” carried out as the Opus grant (2025/57/B/NZ5/03511) of the National Science Centre, Poland led by Prof. Jacek Jaworski.

Project aim: The overarching goals of the project are: (i) to identify key inflammation-regulated genes and proteins responsible for dendritic arbor destabilization and cognitive impairment, and (ii) to discover and preliminarily evaluate small-molecule compounds capable of protecting neurons from inflammation- and age-induced structural deterioration.

There will be two paths for the prospective PhD student: (1) Mechanistic path — focused on understanding how inflammation and aging affect gene regulation and which molecular processes lead to dendritic destabilization and associated cognitive deficits; (2) Therapeutic path — focused on identifying small-molecule compounds that stabilize dendrites under inflammatory conditions and evaluating their potential as candidates to support cognitive function during aging. 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 18th of December, 2025; deadline for sending application is 6th of January, 2026). For more information, please follow the link <https://shorturl.at/mvxOR>

Candidates will be selected according to the procedure complying the rules for granting scholarships for young scientists in research projects funded by the National Science Centre (NCN Council Resolution No. 25/2024 dated March 4, 2024), 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://url-shortener.me/A8V>

Requirements for the candidate:

- Master's or Master's Eng degree in biology, biotechnology or related fields
- Strong interest in cell biology and/or neurobiology
- Proficiency in written and spoken English
- Excellent interpersonal skills, initiative, good work organization, and strong collaboration abilities
- Strong analytical and critical-thinking skills, including the ability to independently evaluate data

- Prior experience in following techniques will be an advantage (but not a prerequisite):
 - Cell culture (primary and/or established cell lines)
 - Work with rodents
 - Ability to code in R and/or Python and experience in data science
 - Sequencing data analysis and/or multiomic data analysis

We offer:

1. Full-time PhD scholarship 4 years (8 semesters) in amount:
 - a) before the mid-term evaluation 5500 pln net/month;
 - b) after mid-term evaluation 6000 pln net/month
2. Position with 100% focus on research (no teaching obligations)
3. Benefits including reduced-rate for an individual private medical care package and membership in MultiSport programme
4. Full technical, administrative and organizational support from professional English-speaking personnel
5. Participation in courses, scientific training, support from peers, and academic mentoring

Deadline for applications is **6th of January, 2026**. The summer semester at the Doctoral School shall begin on **16th of February, 2026**.

How to apply:

- Apply via website <https://shorturl.at/cJKQY> (the application system will be activated from 18th of December, 2025; deadline for sending application is 6th of January, 2026). If you have any enquiries about the recruitment process or the project, please send your request to jaworski@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>



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