



PhD student position in the Laboratory of Cellular Genomics

The Laboratory of Cellular Genomics <https://shorturl.at/JNT69> at the International Institute of Molecular and Cell Biology in Warsaw, headed by Dr Aleksandra Kołodziejczyk is looking for a **PhD student**.

You will join the project entitled “Discovering the diversity and its drivers of novel lung dendritic cell subsets in asthma” carried out as the Opus LAP grant (2024/55/I/NZ6/02571) of the National Science Centre, Poland led by Dr Aleksandra Kołodziejczyk.

Project aim: To overarching aim of this project is to investigate what are the subtypes of dendritic cells in the lung, identify their distinct functions and what role they play in asthma, with a goal in mind to identify potential treatment avenues and druggable candidates.

There will be two paths for the prospective PhD student: (wet) performing experiments on dendritic cells from the lung in healthy and asthmatic mice, which entails mostly single cell genomics and immunological assays and (dry) analysis of the multiomics data to identify subsets of dendritic cells and to predict their functions. 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, engineering, computer science, mathematics, physics or related fields
- Strong interest in immunology and genomics
- Proficiency in written and spoken English
- Excellent interpersonal skills, initiative, good work organization, good collaboration skills
- Prior experience in following techniques will be an advantage (but not a prerequisite):
 - sequencing libraries generation (Illumina, single-cell genomics, RNAseq, ATACseq, ChIPseq, CUT&Tag)
 - FACS, cell sorting
 - working with mice (handling, injections, oral gavage, dissection, perfusion)

- ability to code in R and/or Python and experience in data science
- sequencing data analysis, 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 akolodziejczyk@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>

