**Nazwa jednostki**: Poznan University of Medical Sciences (PUMS), Chair of Medical Biotechnology

**Nazwa stanowiska**: PhD student

Project leader, Dr. Urszula Oleksiewicz, announces recruitment for a PhD student in the SONATA BIS project financed by the National Science Center, entitled "Increasing sensitivity to immunotherapy in lung cancer through immunostimulation and modulation of the tumor microenvironment."

As a PhD student, you will be responsible for the experimental work that will involve the implementation of research tasks proposed in the project. Specifically, you will work on knock-out of a selected gene using the CRISPR/Cas9 system in lung cancer cell lines, analysis of the production of adhesion-related proteins, generation of 3D spheroids and assessment of the interaction of modified cells with immune cells in vitro. After initial steps, you will use modified cells in mouse xenograft model to assess tumor growth and immune response in various immunotherapeutic strategies. The in vivo experiments will require close collaboration with other team members.

**Requirements:**

• Completed University MSc degree or a student of the last year of MSc (field: biotechnology, molecular biology, medical analytics, or other related fields)

• Knowledge of genetics, cell biology, molecular oncology, immunology.

• Experience in laboratory work (mammalian cell culture, in vitro assays, genetic engineering, gene expression analysis methods, e.g. RT-qPCR, Western blot, flow cytometry, immunocytochemistry or others)

• Optional: experience in 3D cell culture, cell co-cultures, immunological tests (e.g. immune cell killing assay), work with laboratory animals, bioinformatic analyzes of NGS data. Any experience in the listed methods will be an additional advantage

• Spoken and written command of English, at least at level B2

• Availability, ability to work individually and in a team, scientific curiosity, motivation, self-discipline, communication skills, analytical thinking

• Fulfillment of the conditions for awarding scholarships in accordance with the NSC regulations: https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2022/uchwala124\_2022-zal1.pdf

• Meeting the recruitment conditions of the PUMS Doctoral School: https://szkoladoktorska.ump.edu.pl/rekrutacja-szkola-doktorska [including: good average from studies; minimum number of points in the assessment of scientific activity (e.g., previous publications, conference attendance): 4]

**Tasks:**

• Conducting experimental work in the laboratory in accordance with the project's research plan: from optimization through conducting the experiment, its analysis and presentation of results

• Participating in lab meetings

• Reporting results to the principal investigator

• Preparation of scientific publications and participation in scientific conferences

• Meeting the study requirements according to the Regulations of the UMP Doctoral School: https://szkoladoktorska.ump.edu.pl/rekrutacja-szkola-doktorska (including: pursuing classes according to the schedule, conducting teaching classes for a maximum of 60 hours per year, preparing a series of scientific publications or submitting a monograph as a doctoral dissertation)

**Conditions of employment:**

Doctoral scholarship for a period of 48 months in the amount of PLN 5,000 gross (approx. PLN 3,700-3,900 for the first two years, and approximately PLN 4,600 after the mid-term evaluation).

Planned start: October 1, 2025 or sooner.

Place: Chair of Medical Biotechnology, Department of Cancer Immunology, ul. Rokietnicka 8, Poznań

**Funding scheme:** SONATA BIS – NZ

**Recruitment**

Recruitment is a two-stage process. In the first stage, the principal investigator and her team undertakes an interview with pre-selected candidates. Afterwards, the winning candidates must submit appropriate documentation to the PUMS Doctoral School and undergo recruitment of the Doctoral School according to the regulations (<https://szkoladoktorska.ump.edu.pl/rekrutacja-szkola-doktorska>).

Applications can be sent until July 20, 2025 to oleksiewiczu@ump.edu.pl. The application should include:

* CV of the candidate with particular emphasis on the description of previous experience in laboratory work and scientific achievements (publications, participation in conferences), information on workshops, and professional internships, received awards, distinctions and scholarships, and other scientific activities,
* contact to two people who can provide references
* letter of motivation
* confirmed information about graduation and average grade obtained, copy of higher education diploma (if available).

The advertiser will contact selected candidates to arrange an interview. Interviews are planned for week (23-27/06/2025). Planned date of competition settlement: 30/06/2025 r.

If you are interested in additional information, please contact the principal investigator: oleksiewiczu@ump.edu.pl.

Please include in your application:
Consent clause
In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L 119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of current recruitment.
date and signature

RODO Information Clause : Pursuant to Article 13 of the General Data Protection Regulation of 27 April 2016. (Official Journal of the EU L 119 of 04.05.2016) we inform that:
1. The controller of your personal data is Poznań University of Medical Sciences with the official seat: Fredry Street 10, 61 - 712 Poznań, Poland.
2. The personal data controller has appointed a Data Protection Officer overseeing the correctness of the processing of personal data, who can be contacted via e-mail: iod@ump.edu.pl.
3. The purpose of processing your personal data is to carry out the recruitment process for the indicated job position.
4. The legal basis for the processing of your personal data is Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 and the Labour Code of 26 June 1974. (Journal of Laws of 1998 N21, item 94 as amended).
5. Your personal data will be stored for a period of 6 months from the end of the recruitment process.
6. Your personal data will not be made available to other entities, with the exception of entities authorized by law. Access to your data will be given to persons authorized by the Controller to process them in the performance of their duties.
7. You have the right to access your data and, subject to the law, the right to rectification, erasure, restriction of processing, the right to data portability, the right to object to processing, the right to withdraw consent at any time.
8. You have the right to lodge a complaint to the supervisory authority - the Chairman of the Office for Personal Data Protection, ul.Stawki 2, 00 - 193 Warsaw.
9. Providing personal data is mandatory under the law, otherwise it is voluntary.
10. Your personal data will not be processed by automated means and will not be subject to profiling.