

Name of Department: Faculty of Pharmacy, Medical University of Warsaw

Position: Postdoctoral Researcher (post-doc)

Formal requirements:

1. The candidate must meet the following criteria:

- Holds a Ph.D. in biotechnology, biology or pharmaceutical sciences
- Earned their Ph.D. in the year of employment or 7 years before Jan 1st of the year of employment (this time limit is extended by 18 months for women for each born or adopted child or by 90 days for applicants receiving sickness benefits before applying).
- Earned their Ph.D. at a research facility other than the Medical University of Warsaw or has completed at least 10 months of postdoctoral internship in the country other than where the Ph.D. was earned.

Occupational requirements:

- Experience in mammalian cell culture (cell line monolayers)
- Experience in second messenger activation assays (cAMP, PKA, PKC, ERK, CREB, etc.)
- Experience in protein expression (qPCR, ELISA, Western blot) and activity assays
- Familiarity with protein purification will be appreciated
- Advanced level of both spoken and written English (C1 or higher)
- Determination and high commitment
- Good organizational skills and multiple-task handling
- Strong analytical and independent thinking skills
- Ability to work both independently and in a team
- Good work ethic

Project title: “Modulation of Gi/o activity by disulfiram as the mechanism preventing tolerance development to the antinociceptive action of morphine” (SONATA BIS 13 no. 2023/50/E/NZ3/00172).

Principal Investigator: dr hab. n. med. Anna Leśniak

Project synopsis:

Recent preclinical data have shown that disulfiram, a potent acetaldehyde dehydrogenase (ALDH) inhibitor used in alcohol use disorder, prevents the development of opioid tolerance, dependence, and withdrawal. The project's overall goal is to identify the molecular

mechanisms by which disulfiram and its key end metabolites govern the maintenance of chronic morphine efficacy. The working hypothesis is that modifying specific cysteine residues enhances morphine μ -opioid receptor signaling by activating the Gai-dependent signaling pathway.

The candidate will be engaged in:

- Implementation of the *in vitro* morphine-tolerance and withdrawal model
- Detection of the Gi/o signaling pathway proteins and their phosphorylation
- Data analysis, manuscript preparation and submission, presenting results at conferences

NCN Grant code: SONATA BIS – NZ

Employment conditions: Full-time employment contract: 11,666 PLN including employer's costs (gross: ~9800 PLN).

Employment period: a mandatory min. of 12 months up to a max. of 33 months. A strict ban on outside employment applies. Employment starts from March 1st

Additional information:

Required documents:

- CV including a list of scientific achievements
- Cover letter
- Copy of the Ph.D. diploma
- Copy of the Ph.D. thesis (in English or Polish)
- Reference letter from supervisor
- A signed GDPR declaration of consent: "I hereby give consent for my personal data to be processed for the purposes necessary to carry out the recruitment process (in accordance with the Personal Data Protection Act, Journal of Laws of 2002, No. 101, item 926, as amended.)"

Offer deadline: Feb. 10th, 00:00 (Central European Time)

Submit offers through e-mail: anna.lesniak@wum.edu.pl (heading: post-doc candidates). Please send the documents in one PDF file.

The Recruitment Committee will make a preliminary assessment of the candidate based on the submitted documents. The highest-rated candidates will be invited to an interview. Invitations to the interview will be sent by e-mail. The interview will be conducted online (via Google Meet or Zoom). Interviews are scheduled for Feb. 13th to Feb. 21st, 2025. Information about the outcome of the interview will be sent to the candidates by e-mail by March 3rd a the

latest. The Recruitment Committee is entitled to a decision not to fill the position. Non-EU applicants require a D-type Work Visa (except for holders of the “Karta Polaka” card) for further proceedings to take place.

INFORMATION CLAUSE

In accordance with 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 Regulation on the protection data), the Medical University of Warsaw informs:

1. The Controller of your personal data is the Medical University of Warsaw, based at 61 Żwirki i Wigury Żwirki i Wigury Str., 02-091 Warsaw, hereinafter referred to as the Controller.
2. The Controller has appointed a Data Protection Officer. The Controller or the Data Protection Officer can be contacted via email address: iod@wum.edu.pl
3. Your personal data will be processed for the purpose of the recruitment process - on the basis of Article 6(1)(b) of the Regulation (EU) 2016/679 of the European Parliament and of the Council of April 27, 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) (hereinafter: " GDPR ") or Article 6(1)(c) of the GDPR.
4. Recipients of your personal data will be only entities authorized to obtain personal data under the law (e.g., courts, tax authorities) and entities participating in the implementation of services for the Controller, such as providers of IT solutions, legal services or insurance company. Data may also be shared with entities supporting or contracting the Administrator's activities (verification, evaluation, monitoring).
5. Your personal data will be processed for the duration of the recruitment process.
6. You have the right to request from the Controller access to your personal data, the right to rectify, erase or restrict processing, the right to data portability, and the right to withdraw consent to the processing of personal data at any time, where withdrawal of consent does not affect the lawfulness of processing carried out on the basis of consent before its withdrawal. You also have the right to object to processing based on the legitimate interests of the Controller - on grounds relating to your particular situation.
7. You have the right to lodge a complaint with a supervisory authority.
8. The provision of your personal data is voluntary, however, refusal to provide data may result in your inability to participate in the recruitment process.