**Mossakowski Medical Research Institute, Polish Academy of Sciences,**

is seeking a candidate for a position of

**Post-doctoral Research Associate**

Recruitment is related to the project “The role of neutrophil serine proteases in the regulation of function of the podocyte and glomerular filtration barrier.” OPUS no. 2021/41/B/NZ4/02797 funded by National Science Centre, Poland, carried out in the **Laboratory of Molecular and Cellular Nephrology** **MMRI PAS.**

City: Gdańsk

Scientific discipline: medical sciences

Announcement date: **07th April 2022**

Application deadline: **02th** **May** **2022**

Link to the website: [www.imdik.pan.pl](http://www.imdik.pan.pl)

Keywords: post-doc, podocyte, insulin resistance, diabetes, albuminuria, gasdermin D, elastase, proteinase 3, cathepsin C, pyroptosis

**The area of the research in which the candidate would participate:**

Diabetic nephropathy is one of the most common and serious complications of diabetic kidney disease. However, our knowledge of the causes and mechanisms of this form of nephropathy is still very limited. Disturbance of podocytes function has a central role in the development of proteinuria in diabetic nephropathy. Additionally, it has been known that increased activity of proteolytic enzymes promotes injury to the renal filtration barrier and renal dysfunction. The principal goal of this project is to define the role of neutrophil serine proteases in the development of pathological changes in the renal filtration barrier observed in diabetes, which eventually lead to diabetic nephropathy and kidney failure.

The research project is divided into two parts: *in vivo* and in *vitro*. In the in *vivo study*, we will use ZDSD rat model and knockout CTSC-/- mouse model. Model ZDSD displays type 2 diabetes progression similar to the human disease – prediabetes (8-16 weeks of age), through overt diabetes (>16 weeks of age), to diabetic complications (24 weeks of age). In experiments *in vitro*, we will use kidney glomeruli and podocytes isolated from Wistar rats and immortalized lines of podocytes (mice and human). The functional, biochemical and molecular studies will aim to determine the role of serine proteases in regulation of function and structure of the podocyte in diabetes.

**Description of duties:**

* Planning and implementation of research tasks in accordance with the schedule of the project,
* Designing and conducting experiments with the use of biochemistry, molecular biology and microscopic imaging methods,
* Analysis of obtained data,
* Presenting the results at the group meetings, external seminars and scientific conferences,
* Preparation of scientific publications,
* Introducing new research technologies and cooperation with a foreign partner involved in the current research project.

**Necessary Requirements:**

* PhD degree in biological sciences, neurosciences, pharmacological sciences, medical sciences or relevant,
* Documented scientific achievements including publications in journals from JCR list,
* Participation in scientific conferences and internships,
* Experience in laboratory techniques in biochemistry, molecular biology (e.g. DNA, RNA, isolation; Western blot; qPCR; immunohistochemistry; spectrophotometric/fluorometric techniques),
* Working knowledge of statistical software (e.g. GraphPad Prism),
* Ability to work in a team and independently,
* Excellent knowledge of English, allowing effective communication and preparation of scientific manuscripts,
* Indication of Mossakowski Medical Research Institute Polish Academy of Sciences as a first place of employment.

**Desirable Requirements:**

* Experience in work with animal models (relevant certificates or trainings),
* Experience in substantive care for students and junior scientists.

**We offer:**

* Fixed term, full-time employment contract,
* Contract period: 01st June 2022 – 31st May 2025,
* Gross salary: around 7800 PLN / month,
* The opportunity to work in a pleased atmosphere, in a dynamic, developmental research group,
* Scientific collaboration with a research partner in France and with other Polish and foreign research institutions,
* Opportunity to participate and present obtained results at international conferences.

**Required documents:**

* Motivation letter with description of candidate’s scientific interests, scientific work, scientific independency, participation in research grants,
* CV listing candidate’s education, professional experience, scientific achievements, authored or co-authored publications and conference abstracts, internships and training,
* Copy of the PhD (or equivalent) diploma,
* References.

**How to Apply:**

The Application should be addressed to the Director of Mossakowski Medical Research Institute, Polish Academy of Sciences.

Please send your documents to [apiwkowska@imdik.pan.pl](mailto:apiwkowska@imdik.pan.pl) include the following job offer identification number in your application: **PMKN-111-1/2022**

For more information about the project, please contact dr hab. Agnieszka Piwkowska ([apiwkowska@imdik.pan.pl](mailto:apiwkowska@imdik.pan.pl))

Expected date of the interview: **9th May 2022**

Expected decision date: **16th May 2022**

Expected job starting date: **01st June 2022**

**INFORMATION CLAUSE ON PERSONAL DATA PROCESSING**

Pursuant to Article 13 of 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 Data Protection Regulation), Mossakowski Medical Research Institute, Polish Academy of Sciences hereby informs:

1. The Controller of your personal data is the Mossakowski Medical Research Institute, Polish Academy of Sciences, A. Pawińskiego 5 St., 02-106 Warsaw, Poland (“MMRI PAS”)
2. The Controller has designated the Data Protection Officer who can be contacted via the following e-mail address: [daneosobowe@imdik.pan.pl](mailto:daneosobowe@imdik.pan.pl) or the post address of Controller.
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the MMRI PAS.
4. MMRI PAS processes Your personal data in relation to a legal obligation (the Article 6.1.c of the GDPR) pursuant to Article 221 § 1 of the Act of 26 June 1974 Labour Code or Your consent understood by sending them to MMRI PAS (the Article 6.1.a of the GDPR) for data not listed on Labour Code, and their application does not affect the possibility of participating in the recruitment / competition. If you do not want us to process additional data, please do not include it in the documents.
5. By submitting your candidacy, you consent to the fact that if you win the recruitment / competition, your name and surname together with information about the recommendation for employment will be posted on the MMRI PAS website.
6. Your application with personal data will be processed for period necessary for realization of purposes indicated in p. 3 - for a maximum of one month and then your application with personal data will be deleted.
7. With regard to processing of Your personal data for purposes mentioned in p. 3, Your personal data might by shared with following recipients or categories of recipients: entities supporting MMRI PAS in its business processes, in particular administrative and economic service and authorized entities.
8. Within the limits and on the terms set out in the GDPR, you have the right to request access to your personal data, rectification, deletion or limitation of processing, as well as the right to submit a declaration of withdrawal of consent to the processing of personal data at any time. Withdrawal of consent does not affect the lawfulness of the processing which was carried out on the basis of consent before its withdrawal, as well as the processing of data processed by the administrator on the basis of other provisions.
9. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data (ul. Stawki 2, 00-193 Warszawa).