**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 “Glycogen metabolism and gluconeogenesis in glomerular podocytes: impact on podocyte function in normo- and hyperglycemia.” OPUS no. 2021/41/B/NZ5/02611 funded by National Science Centre, Poland, carried out in **Laboratory of Molecular and Cellular Nephrology, Gdansk, Poland**.

City: Gdańsk

Scientific discipline: medical sciences

Announcement date: **12th May 2022**

Application deadline: **10th** **June** **2022**

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

Keywords: post-doc, podocyte, hyperglycemia, diabetes, glycogen metabolism, insulin resistance.

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

Glucose homeostasis is controlled by endogenous glucose production (EGP) and glucose utilization rates. We hypothesize that the high glucose-induced impairment of insulin action may be related to enhanced EGP and glycogen accumulation in podocytes. Additionally, the energy sensing pathways crucial for metabolic control, such as the protein deacetylase, SIRT1 and AMP-dependent protein kinase (AMPK), whose activities are impaired in podocytes with HG-induced insulin resistance, may be involved in EGP modifications in these cells.

We are seeking a postdoctoral researcher for the project aimed to investigate the effects of hyperglycemia on EGP in podocytes and SIRT1-AMPK-dependent mechanism of its regulation, especially in the context of cellular energetics and insulin responsiveness.

Candidate will be involved in investigation of:

1. glycogen metabolism in podocytes exposed to hyperglycemic conditions and its role in the regulation of podocytes energetics
2. the role of SIRT1-AMPK-dependent regulation of glycogen metabolism in podocytes
3. the effects of glycogen metabolism regulation on insulin signaling and glucose uptake
4. the influence of glycogen metabolism on podocyte function
5. the role of SIRT1-AMPK pathway in regulating glycogen metabolism in diabetic type 2 rat model

Understanding the mechanisms of the regulation of intracellular glucose homeostasis in podocytes could provide further insights into glomerular disease pathogenesis and generate novel therapeutic targets for glomerulopathy treatment 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,

**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),
* ability to work in a team and independently,
* fluent 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,
* experience in planning and conducting *in vivo* procedures,

**We offer:**

* fixed term, full-time employment contract,
* contract period: 1st July 2022 – 31st December 2025,
* gross salary: 7880 PLN / month,
* the opportunity to work in a pleased atmosphere, in a dynamic, developmental research group,
* opportunity to participate and present obtained results at international conferences.

**How to Apply:**

Please send your documents to project manager: [drogacka@imdik.pan.pl](mailto:drogacka@imdik.pan.pl) including the following job offer identification number in your application: **PMKN-111-4/2022**

**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 (optionally).

For more information about the project, please contact dr hab. Dorota Rogacka ([drogacka@imdik.pan.pl](mailto:drogacka@imdik.pan.pl))

Expected date of the interview: **13th June 2022**

Expected decision date: **20th June 2022**

Expected job starting date: **1st July 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).