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## **JOB OFFER – *Post-Doc***

**A postdoctoral research position is available to participate in a research, that has been designed to develop optimal strategies to enhance homing/seeding efficiency of transplanted hematopoietic stem/progenitor cells**

### **Project Title:**

*Novel strategies to accelerate homing of HSPCs and hematopoietic reconstitution after transplantation*

### **Project Background:**

Transplantation of hematopoietic stem/progenitor cells (HSPCs) is well established and in many cases lifesaving clinical procedure. However, delayed engraftment of HSPCs and even worse its lack is still an important clinical problem in particular in situations when a number of HSPCs in graft is low (e.g., poor mobilizers of HSPCs, umbilical cord blood [UCB] transplants). In this proposal we would like to test different strategies aimed to improve homing of HSPCs to bone marrow (BM). We will employ *ex vivo* approaches to increase formation of membrane lipid rafts in HSPCs as mean to enhance homing potential of transplanted cells. We will also test *ex vivo* approaches to modulate cell surface- and intracellular-expressed enzymes that regulate responsiveness of HSPCs to BM-expressed homing factors. Finally, we will test strategies to increase BM-concentration of chemoattractants for HSPCs by performing time kinetic for expression of BM homing factors after conditioning for transplantation and subsequently modulate level of BM homing factors by inhibiting using specific inhibitors enzymes that degrade in BM microenvironment SDF-1 (MMPs), S1P and C1P (S1P-lyase) and ATP (CD39 and CD73 endonucleases).

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**I am looking for a highly motivated person to participate as a post-doctoral fellow within scientific project at the Warsaw Medical University at Department of Regenerative Medicine**

**Supervisor:** Mariusz Ratajczak, MD, PhD, DSc

**Type of employment relationship:** Contact of mandate

**Employing entity:** Warsaw Medical University, Department of Regenerative Medicine, Warsaw

**Application deadline:** 29<sup>th</sup>, March, 2020

**Expected start date:** May/2020

**Duration:** 15-month position

**Salary:** to be discussed

**Eligibility:**

A suitable applicant should have the following qualifications:

1. PhD degree in Biology or Biotechnology
2. Basic previous experience in at least two of the following cellular/molecular biology techniques: PCR, qRT-PCR, western-blotting, ELISA, flow cytometry
3. Basic experience in experimental murine model of stem mobilization and homing
4. Academic background in cell biology, molecular biology, and/or genetics.
5. Scientific research experience (full-text international publications, full-text articles published in Polish journals, international abstracts, active participation in (inter)national meetings, and scientific courses)
6. Ability to work independently
7. The candidate is required to have knowledge of stem cell biology
8. Good command of the English language,
9. Strong interest in science

**How to apply:**

Please send:

1. Letter of interest
2. CV
3. Publication list
4. Photo
5. Contact details of 2-4 potential referees

to: [medycyna.regeneracyjna@wum.edu.pl](mailto:medycyna.regeneracyjna@wum.edu.pl)

All documents should be sent as PDF files.

The e-mail heading should be: „**Post-doc – Opus grant**”.

Please provide also the statement that you grant us a permission to process your personal details for the recruitment process:

- “I hereby give consent for my personal data included in the job offer to be processed for the purposes of recruitment conducted by the Medical University of Warsaw located in Warsaw”.

**The rules for the protection of personal data used by the Medical University of Warsaw:**

1. The administrator of personal data is the Medical University of Warsaw located in Warsaw, Żwirki i Wigury 61, 02-091 Warszawa,
2. Contact to the Data Protection Officer - email address: [iod@wum.edu.pl](mailto:iod@wum.edu.pl).
3. Personal data will be processed in order to implement the recruitment process pursuant to art. 22<sup>1</sup> of the Labor Code, and in the case of providing a broader scope of data pursuant to art. 6 § 1a GDPR - consent expressed by the candidate.

4. Access to personal data within the University's organizational structure shall only have employees authorized by the Administrator in the necessary scope.
5. Personal data will not be disclosed to other entities, except for entities authorized by law.
6. Personal data will be stored for the period necessary to carry out the recruitment process, up to 12 months from the settlement of the recruitment process. After this period, they will be removed.
7. You have the right to access your data, the right to rectify, delete, limit processing, the right to transfer data, the right to object to the processing, the right to withdraw consent.
8. You have the right to withdraw consent to the processing of your personal data at any time, which will not affect the lawfulness of the processing that was carried out on the basis of consent before its withdrawal.
9. You have the right to lodge a complaint with the Office for Personal Data Protection when it is justified that his personal data are processed by the Administrator in breach of the general regulation on the protection of personal data of April 27, 2016.
10. Providing personal data is voluntary, but necessary to participate in the recruitment process to the extent specified in art. 22<sup>1</sup> § 1 of the Labor Code, voluntary in the remaining scope.
11. Decisions will not be taken in an automated manner and personal data will not be subject to profiling.

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