



**Warsaw Medical University  
is offering a job position as a *PhD Student***

nr ref. PhD Student –OPUS15 grant

**A scholarship position is available to participate in a research that has been designed to better characterize the role of purinergic signaling in hematopoiesis**

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**Project Title:**

*Purinergic signaling as important regulator of hematopoietic system*

**Project Background:**

Hematopoiesis is an exciting and extensively studied topic. Nevertheless, there are still many questions that need to be addressed. For many years, regulation of hematopoiesis has been viewed through the prism of regulatory effects of peptide-based growth factors, cytokines, and chemokines. More recently, attention has been paid to the regulatory effects of bioactive lipids. What is important for this proposal, evidence has accumulated that small **extracellular nucleotides (EXNs)**, when released from the cells, act as signaling molecules, and EXNs have emerged as a new potential group of hematopoiesis regulatory factors. EXNs are released in response to certain stimuli, and they may also be secreted from damaged, leaky cells as **danger-associated molecular pattern (DAMP)** molecules or alarmines — as seen for example in bone marrow exposed to *i)* inflammation, *ii)* hypoxia, or *iii)* radio-chemotherapy. Nevertheless, several questions still need to be addressed, as EXN-mediated purinergic signaling in hematopoiesis has mainly been investigated in terminally differentiated cells. Deciphering mechanisms operating in HSPCs regulating their proliferation and trafficking will allow to better understand regulation of hematopoiesis and to propose new treatment strategies.

A scholarship position is available to participate in a research that has been designed to better characterize the role of purinergic signaling in hematopoiesis. We want to shed more light on the role of EXN *i)* in normal hematopoiesis, *ii)* during pharmacological mobilization of HSPCs and finally *iii)* in the homing/engraftment of HSPCs into bone marrow niches. Our results may lead to development of better stem cells expansion, mobilization and HSPCs engraftment protocols in the future. These major exciting goals of our project will be achieved by execution of research proposal driven by specialists with the complementary areas of expertise. Knowledge gained in this proposal will be also relevant to other areas of medicine including cardiology, pulmonology and neurology.

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**We are looking for a highly motivated person to participate as PhD student within scientific project at the Medical University of Warsaw in Department of Regenerative Medicine.**

**Supervisors:** Mariusz Ratajczak, MD, PhD, DSci

**Type of employment relationship:** scholarship position, student

**Employing entity:** Medical University of Warsaw, Warsaw, Faculty of Medicine

**Application deadline:** 20<sup>th</sup> April, 2019

**Expected start date:** May/June 2019

**Duration:** 35-month position

**Salary:** 3 000PLN/month

**Eligibility:**

A suitable applicant should have the following qualifications:

1. MS degree in Biology or Biotechnology,
2. basic experience in at least two of the following cellular/molecular biology techniques: PCR, qRT-PCR, western-blotting, ELISA chromatin immunoprecipitation, flow cytometry, western blott, imaging
3. knowledge of cell biology, molecular biology, and/or genetics,
4. knowledge of cancer cell biology,
5. good knowledge of English,

6. strong interest in science.

**Required documents:**

1. letter of interest,
2. CV,
3. publications list,
4. contact details of 2-4 potential referees

**Statements required:**

If you are interested in participating in the recruitment process, please include the following clauses in your CV:

- "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"
- "I declare that I have read the rules on the protection of personal data used by the Medical University of Warsaw, included in the content of the job advertisement for the post of PhD Student. "

If you are interested in participating in future recruitment, please include the following clause in your CV (consent is voluntary):

- "I hereby agree that my personal data included in the application documents will be used for the needs of current and future 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 - phone number (+48 22) 57 20 320, email address [iod@wum.edu.pl](mailto:iod@wum.edu.pl).
3. Personal data will be processed in order to carry out the recruitment process on the basis of 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 6 months from the settlement of the recruitment process. After this period, they will be removed.
7. The candidate has the right to access his/her personal data, the right to rectify, delete, limit processing, the right to data transfer, the right to object to the processing, the right to withdraw consent.
8. The candidate has the right to withdraw consent to the processing of his/her personal data at any time, which will not affect the lawfulness of the processing, which was made on the basis of consent before its withdrawal.
9. The candidate has the right to lodge a complaint to the Office for Personal Data Protection, if it is justified that his/her personal data are processed by the Administrator in a way incompatible with the general regulation on personal data protection of 27 April 2016.
10. Providing personal data is voluntary, although necessary to participate in the recruitment process in the area specified in art. 22<sup>1</sup> § 1 of the Labor Code, in the remaining area it is voluntary.
11. Decisions will not be taken in an automated manner and personal data will not be subject to profiling.

**Applications can be submitted in electronic form to the address:** [mzrata01@wum.edu.pl](mailto:mzrata01@wum.edu.pl) or to [medycyna.regeneracyjna@wum.edu.pl](mailto:medycyna.regeneracyjna@wum.edu.pl) with indication of the announcement of „PhD Student –OPUS15 grant”.

*Project “Purinergic signaling as important regulator of hematopoietic system” is funded by the National Science Centre under the OPUS scheme.*