

**Position title:** PhD Student

**Number of scholarships:** 1

**Institution offering the scholarship (department / institute / faculty / university / institution, city):**

Department of Cell Biology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Kraków

**Date of starting work in the project:** 1 October 2020 \*

**Monthly scholarship:** 5000 PLN

**Research tasks:**

MAESTRO 11 grant entitled "*Molecular and cellular mechanisms of pro-regenerative potential of stem cell- derived extracellular vesicles (EVs) in ischemic myocardial injuries: Role of microRNAs*" will focus on the role of selected miRNAs carried by EVs from genetically modified iPSCs and MSCs, in various types of cardiac tissue cells both *in vitro* and *in vivo*, including examining regenerative properties of these EVs in acute and chronic myocardial injury models.

**Expectations from the candidate:**

1. Master's degree in biology, biotechnology, biochemistry or related sciences
2. PhD Student status at the Doctoral School (on the day of starting work in the project- 1 October 2020\*)
3. Experience in the experimental work in the field of cell and molecular biology, in particular in: 1) isolation and culture of animal and human cells *in vitro*, 2) functional tests on cells *in vitro*, including examination of cell proliferation, viability, metabolic activity and differentiation potential, 3) practical knowledge of molecular biology techniques, including PCR, real-time PCR, Western Blot, 4) knowledge of flow cytometry technique.

Candidates familiar with theoretical and practical aspects of stem cell and EV biology will be preferred.

4. Motivation for scientific work, ability to work in a group and good organization of work, self-reliance and diligence.
5. Very good English language skills.

**List of required documents:**

1. Application with motivation letter
2. Curriculum vitae
3. 1 recommendation letter
4. Copies of Bachelor's and Master's diploma (in the case of completing first and second cycle studies) or uniform master's diploma
5. Transcripts of records with marks obtained from particular courses during the higher education
6. Certificate of English language proficiency

**Questions regarding the offer and candidate applications should be sent to the Project Leader** (Prof. Ewa Zuba-Surma, PhD, DSc) to the following e-mail address: [ewa.zuba-surma@uj.edu.pl](mailto:ewa.zuba-surma@uj.edu.pl)

**The application deadline is 23 August 2020.** Interviews with candidates (in the online form) will take place on 25-27 August 2020. Selected candidates will obtain permission to apply to the Doctoral School of Exact and Natural Sciences of the Jagiellonian University (*Biochemistry, biophysics, molecular biology and biotechnology* program offered at the FBB&B JU) under the supervision of the Project Leader - until 31 August 2020. Final recruitment results will be announced until 25 September 2020.

Information about the Doctoral School: [https://science.phd.uj.edu.pl/en\\_GB/](https://science.phd.uj.edu.pl/en_GB/) (this year's recruitment to the DS only includes an interview conducted in September 2020 ).

Please include the following clause in your documentation:

*"I consent to the processing of my personal data contained in the scholarship offer for the purposes necessary for the recruitment process, in accordance with the Act of 29.08.97 on the Protection of Personal Data, J. of Laws No. 133, item 883".*

**The unit presenting the scholarship offer reserves the right to contact only with selected candidates.**

(\* ) start at a later date is also possible