

### Post-Doctoral Fellow

#### Institute of Medical Biology of PAS Laboratory of Cellular Signaling

is seeking the candidate for the post-doctoral position to carry the project founded by NCN Poland, 2018/29/B/NZ5/01756 „How platelet microparticles affect invasiveness of colon cancer cells in the process of metastasis. Can we change it?  
(offer 1/2019/OPUS15)

**Supervisor** - prof. dr hab. Maria Anna Kowalska

**Project:** NCN – OPUS 15 NZ5

**We offer:** Full time position, 34 months contract in the Institute of Medical Biology of Polish Academy of Sciences, Lodowa 106, 93-232 Łódź.

Preferred starting date: October 1st, 2019

Ambitious work environment and high level of research independence.

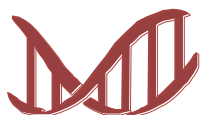
Participation in local and international conferences.

#### Requirements:

1. PhD in medical biology, biology or related. The candidate must satisfy the conditions required by the National Science Centre, Poland. In particular, the candidate must have obtained a doctoral degree not earlier than 7 years before the year of employment in the project. This period does not include breaks related to maternity leave, holiday on the conditions of maternity leave, paternity leave, parental leave or educational leave, granted on the terms set out in the provisions of the Labor Code or collection sickness benefit or rehabilitation benefit in connection with inability to work, including caused a disease requiring medical rehabilitation. The indicated 7-year period can be extended if the reason of breaks in a scientific career can be documented.
2. High motivation for research combined with a proactive attitude and good organizational skills. Experience in experimental studies in the field of medical biology (documented):
  - o Isolation of the blood cells, cell culture (colon cancer cells), isolation of extracellular vesicles released from cells and platelets *in vitro*.
  - o Technical skills to characterize the cell function *in vitro* (proliferation, cell viability etc.)
  - o Molecular biology knowledge (RT-PCR, real-time PCR), western blot, flow cytometry
  - o A knowledge to use the basic instruments used in medical science like Flow cytometry (including BD FACSDiva software), spectrophotometers, fluorimeters etc.
3. Computational skills: Microsoft Office, GraphPad, Reference Manager, FlowJo, Statistical programs. Fluency in English language (speaking and writing)

#### Key responsibilities:

1. Analysis of platelet aggregation, activation of platelet receptors and protein release reaction.
2. Isolation of platelet microparticles (PMPs). Analysis of the protein content.
3. Incorporation of platelets microparticles by cancer cells. Analysis of morphology and protein expression of cells.
4. Characterization of cells *in vitro*: cell adhesion, proliferation, migration and invasion. Level and activity of matrix metalloproteinases.
5. Influence of platelets microparticles on the metastasis of different types of cells in the *in vivo* murine models. Immunohistochemical analysis of mice organs and determination of levels of inflammation during metastasis progression.

**Additional information:**

Recruitment procedure will be executed according to the recruitment rules of the Institute of Medical Biology PAS (“Regulamin przeprowadzania konkursu na stanowiska naukowe w Instytucie Biologii Medycznej PAN”) according to the regulations dated April 4<sup>th</sup> 2017 r.

**Required documentation:**

Applicants should submit the following documents::

1. Scan copy of M.S and a Ph.D (or M.D) diploma (or a formal confirmation of the degree - required at the time of employment), reviews of doctoral thesis.
2. Information about employment.
3. Curriculum Vitae (CV), including the list of scientific publications and conference presentations, list of honors, awards, and stipends, information about grants that the candidate was involved with.
4. Contact details of two referees, who agreed to provide a recommendation.
5. Statement declaring that in case of winning the competition procedure, the Institute of Medical Biology of Polish Academy of Sciences will be the basic and only place of employment.

Please include the following agreement statement:

„I hereby give consent to the processing and storage of my personal data included in my job application for the purposes of the recruitment proces in accordance with the Regulation of the European Parliament and of the Council (EU) 2016/679 of 26 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and the repeal of Directive 95/46/EC”.

FULL NAME ..... DATE .....

Application deadline: **September 17th 2019**. Administrative Staff of the Institute of Medical Medical Biology of Polish Academy of Sciences, Lodowa 106, 93-232 Łódź can be reached daily (Monday through Friday) 9 am – 4 pm. Dokumenty can be mailed to the same address with a note: „Offer nr 1/2019/OPUS15” or by email: [kadry@cbm.pan.pl](mailto:kadry@cbm.pan.pl); [mkowalska@cbm.pan.pl](mailto:mkowalska@cbm.pan.pl)

**Recruitment procedure:**

After the initial verification and evaluation of the documents by the Recruitment Committee, selected candidates will be invited to attend a meeting with the members of the Recruitment Committee, who will make a decision for recommendation for the job offer.

Meeting with the members of the Recruitment Committee will take place in the Institute of Medical Biology of Polish Academy of Sciences, Lodowa 106, 93-232 Łódź, on **September 25th, 2019**.

Decision about job offer will be made on **September 26th, 2019**. A formal written document will be forwarded to the Human Resources of the Institute that will proces the employment procedure.

The Institute reserves the right to contact only applicants selected through verification of the submitted documents and to reject all submitted applications if a competition committee decided that they do not meet the criteria. Please be advised that any documents sent in will not be returned to applicants.

**Additional information about the project 2018/29/B/NZ5/01756 can be obtained by email:**  
[mkowalska@cbm.pan.pl](mailto:mkowalska@cbm.pan.pl)