Biotechnology Center

Marek J. Łos

MD/PhD Professor

Head: Biomedical Engineering Group

BIOTECHNOLOGY CENTER

OF THE SILESIAN UNIVERSITY OF TECHNOLOGY

announces a competition for the post-doctoral multidisciplinary position in molecular and cellular biology

for a definite period (11 months) at the Biotechnology Center

We are looking for postdoctoral researcher to conduct interdisciplinary research in the area of cell biology, in collaboration with material sciences; experience in virology is of advantage. The project's goal is to test series of carbon-based biomaterials as potential leads for bone substitute development. The main tasks of the research fellow will be to conduct the biologic part of the project in close collaboration with material scientists.

JOB DESCRIPTION:

1. Production of human primary osteoblasts from other type of cells by the process of transdifferentiation.

2. Chemical transdifferentiation will be preferred, however genetic transdifferentiation mediated by vectors may be used as supportive/alternative technology.

3. Presentations of the results at international conferences.

4. (Co-)supervision and mentoring of students and volunteers.

5. General tasks related to keeping cell biology laboratory in good order.

6. Preparation of scientific manuscripts in English.

APPLICATION MUST INCLUDE:

1. Application letter.

2. Diploma of a PhD or MD/PhD degree in biology, medicine, biochemical sciences, virology or related fields, obtained in 2018 or later.

3. Curriculum vitae (CV) including a complete list of publications.

Silesian University of Technology
Biotechnology Center

Krzywoustego 8, 44-100 Gliwice
+48 32 237 29 13
mlos@polsl.pl

4. Addresses, emails and telephone numbers of 3 potential referees.

5. Applications of Polish residents residing in Poland must be in English, applicants residing abroad may alternatively apply in Polish.

PROFIL OF CANDIDATE:

1. Documented scientific achievements in international journals in the field of microbiology/virology, and/o molecular biology.

2. Documented participation in international scientific conferences and/or research projects.

3. Fluency of English confirmed by professional certificates or by scientific publications in English.

4. PhD or Master's in Chemistry, Biochemistry, Molecular Biology, Microbiology/Virology, Bioengineering or a related discipline.

5. Candidates with at least 2-years of research experience in a country where English is a primary language will be prioritized.

6. Candidates with understanding of the mechanism of transdifferentiation procedures will be prioritized.

7. High motivation and enthusiasm for research, scientific independence, good organizational skills.

8. Priority will be given to candidates whose PhD-diplomas are valid in Poland without the requirement for validation procedure.

WE OFFER:

1. Full-time employment (including all medical- and social-financial benefits available to Polish population) under the fixed period employment contract for 11 months with the possibility of further extensions subject to funding availability.

2. International and multidisciplinary environment (cell biology, material sciences, microbiology, organic chemistry, bioinformatics).

3. Inspiring and friendly environment allowing for realizing ambitious projects in the field of biotechnology, and drug development.

4. Opportunities for further carrier development.

5. Performance-related bonuses that may exceed the basic salary level.

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EXAMPLES OF TOPIC-RELATED PUBLICATIONS:

1. Hudecki et al., Comparison of Physicochemical, Mechanical, and (Micro-)Biological Properties of Sintered Scaffolds Based on Natural- and Synthetic Hydroxyapatite Supplemented with Selected Dopants. Int J Mol Sci, 2022, 23:4692. doi: 10.3390/ijms23094692.

2. Hybiak et al., Reprogramming and transdifferentiation - two key processes for regenerative medicine, Eur J Pharmacol, 2020, 882:173202, doi: 10.1016/j.ejphar.2020.173202.

3. Hudecki et al., Composite Nanofibers Containing Multiwall Carbon Nanotubes as Biodegradable Membranes in Reconstructive Medicine, Nanomaterials, 2019, 9:63. doi: 10.3390/nano9010063.

4. Skubis et al., Impact of Antibiotics on the Proliferation and Differentiation of Human Adipose-Derived Mesenchymal Stem Cells, Int J Mol Sci, 2017, 18:2522, doi: 10.3390/ijms18122522.

FOR MORE INFORMATION PLEASE CONTACT:

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APPLICATION DEADLINE:

The position is open until it will be filled (optimal before 12.11.2024)

Top 3 candidates fulfilling the requirements will be invited for tele-interview, or interview in person, in mid-November 2024. The interview will be conducted in English.

WHERE TO APPLY:

Electronic version of application should be sent to:

marek.los@polsl.pl

RESULTS ANOUNCEMENT: as soon as possible (optimally in mid-or late November, 2024)

Silesian University of Technology

RESEARCH UNIVERSITY
EXCELLENCE INITIATIVE

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Informative clause:

According to art. 13 of the Regulation on Personal Data Protection of 27 April 2016, please be informed:

1. The controller of your personal data is the Silesian University of Technology with its registered office at Akademicka 2A St, 44-100 Gliwice,
2. The Silesian University of Technology has appointed the Data Protection Officer who can be contacted via the email address: iod@polsl.pl,
3. Your personal data will be processed in order to carry out the recruitment process for work at the Silesian University of Technology,
4. the basis for the processing of your personal data is art. 221 of the Labour Code and, if you agree to use your CV in future recruitments at the Silesian University of Technology, art. 6 clause 1 point a of the GDPR Regulation shall apply,
5. only employees authorized to process personal data to the necessary extent will have access to your personal data within the organizational structure of the Silesian University of Technology,
6. Your personal data shall not be disclosed to other entities, except in cases provided for by law,
7. Your personal data shall be stored for the period necessary to carry out the recruitment process or for the next 9 months from the end of the recruitment process, if you authorize the processing of personal data in future recruitment processes,
8. You have the right to request the access to the content of your data and, to the extent provided for by applicable regulations, the right to: rectify, delete, limit processing, raise objections; if you consent to the processing of data, you have the right to withdraw your consent at any time,
9. You have the right to lodge a complaint with the President of the Office for Personal Data Protection if you feel that the processing of your personal data violates the provisions of the General Data Protection Regulation,
10. providing data is voluntary, but necessary to achieve the purposes for which they are collected.

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HR EXCELLENCE IN RESEARCH

CENTRUM BIOTECHNOLOGII
Politechniki Śląskiej