

Dept. of Immunology, Faculty of Biochemistry, Biophysics & Biotechnology.



Jagiellonian University in Krakow



UMO-2019/35/B/NZ6/03357, UMO-2022/45/B/NZ6/03581

Two Post-Doctoral Fellowships: Investigating Interactions Between Keratinocytes, the Immune System, and the Nervous System in Chronic Inflammatory Skin Diseases

Project Summary: Skin, a vital barrier organ, faces various challenges from microbial infections to environmental stressors. This project focuses on three key elements: the keratinocyte-rich epidermis, and the pivotal interfaces connecting the skin to the external environment - the immune and nervous systems. We aim to gain deeper insights into how interactions within these cutaneous compartments contribute to chronic inflammatory skin conditions.

Candidate Requirements: We are in search of an enthusiastic scientist with a keen interest in the pathophysiology of the nervous system, immune system (myeloid cells), and barrier organs.

- PhD (MD) in immunology, neurobiology, or related fields.
- Prior experience with inflammation/neurodegeneration-related animal models, and/or proficiency in isolating/culturing/assessing activity of nervous cells, myeloid cells, and/or keratinocytes is highly desirable.
- Expertise in techniques such as immunohistochemistry, confocal microscopy, bioinformatics (for large datasets), cell isolation and culture (keratinocytes, immune cells), biochemical assays (immunoprecipitation, ELISA, Western Blot), and/or molecular biology (qPCR, transfection, and CRISPR/Cas9 gene editing) will be an asset.
- Demonstrated creativity and the ability to independently design studies, conduct experiments, analyze and interpret data from both in vitro and in vivo studies, and troubleshoot when necessary.
- Proficiency in both verbal and written communication in English.

Work Location: Dept. of Immunology, Faculty of Biochemistry, Biophysics & Biotechnology, Jagiellonian University in Krakow. https://wbbib.uj.edu.pl/en_GB/wydzial/zaklady-i-pracownie/zaklad-immunologii (PI Joanna Cichy)

Start Date: Expected in February/March 2024, with a 24-month contract.

Application Process: Interested candidates are encouraged to submit a motivation letter, a comprehensive CV, and two reference letters (as one PDF file labeled Ref IMM2024/PostDoc/Last Name of the Candidate) to Joanna.Cichy@uj.edu.pl. The application deadline is January 8th. Shortlisted candidates will be contacted for interviews later this month.