

Polish Academy

of Sciences



## scientific institutes

International Institute of Molecular and Cell Biology in Warsaw – IIMCB



**more than 9,500 employees at the institutes, including 4,312 researchers**



PAS Scientific Centers Abroad



Brussels Polish Science Contact Agency Polish Academy of Sciences



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pursuing advanced research at its scientific units, of strategic importance for the development of science and the economy



supporting various forms of international research cooperation





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## EXPERTISE

Our group focuses on cell engineering, particularly for the purposes of regeneration and interceptive medicine. We study factors shaping cell identities and states in the context of epigenetic rejuvenation, direct cell reprogramming, and intercellular communication via short- and long-distance RNA transport. We combine cutting-edge single-cell spatial multiomics, micro-patterned cell cultures, organoid models, and machine learning to model cell trajectories and control cell fate and functions.

## SEEKING FOR COLLABORATION WITHIN

cardiology, AI, epigenetics, transdifferentiation, RNA, extracellular vesicles, CRISPR, APOBEC

## RELEVANT PROJECTS

[ECBiG-MOSAIC](#)

[NEB](#)

[LifeTime](#)

[LifeTime](#)



PhD  
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## EXPERTISE

Our current research focuses on the use of an innovative iterative functional and genomics approach to design new therapeutic strategies for patients with Myelodysplastic Syndromes (MDS), Acute Myeloid Leukemia (AML), and Chronic Lymphocytic Leukaemia (CLL). We are also interested in studying the relationship between the epigenetic landscape and the pathogenesis of diseases.

## SEEKING FOR COLLABORATION WITHIN

biochemistry, genetics, molecular biology, medicine and health sciences, chemistry, immunology

## RELEVANT PROJECTS

[NCN/OPUS17](#)

[NCN/OPUS21](#)



Professor  
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## EXPERTISE

We focus on identifying transcriptional and epigenetic mechanisms controlling functions of immune and tumor cells. Employing single-cell transcriptomics, chromatin immunoprecipitation (ATAC-seq, ChIPseq), next-generation sequencing (NGS), and bioinformatics, we attempt to understand transcriptional changes in the tumor microenvironment that promote brain tumor progression. We collaborate with clinicians and use advanced glioma models to study potential anti-glioma therapeutic strategies.

## SEEKING FOR COLLABORATION WITHIN

molecular neurobiology, tumor microenvironment, gliomas, single-cell transcriptomics, immunotherapy

## RELEVANT PROJECTS

[NEUROINFLAMMATION](#)

[iNANOGUN](#)

[NEURONICHE](#)

[MicroSynDep](#)

