



Maksim Ionov

PROFESSOR – UNIVERSITY OF LODZ · PROFESSOR – MAZOVIAN ACADEMY IN PLOCK

✉ maksim.ionov@biol.uni.lodz.pl | 🏠 www.scopus.com/authid/detail.uri?authorId=14028263300 |

🆔 0000-0001-7227-6864 | Scopus bibliometric data: citations 2525 · documents 105 · h-index 31

Currently held positions

Department of General Biophysics, Faculty of Biology and Environmental Protection

University of Lodz

PROFESSOR

Faculty of Medicine, Collegium Medicum

Mazovian Academy in Plock

PROFESSOR

Scientific profile and collaborations

The area of expertise includes the development of dendrimer and liposomal technology for delivering small molecules to target cells. In particular, the employing of polymer-based nanoparticles for the delivery of therapeutic nucleic acids like small RNA molecules. This includes the characterization of formed nanocomplexes, which are examined using in vitro and in vivo models with regard to biocompatibility and efficiency. This way can be applied to the therapeutic inhibition of miRNAs. It also enables to investigate of how miRNAs influence the expression of tumor-related genes and explore potential therapeutic effects based on these approaches.

Collaboration (selected):

Spain: Francisco Javier de la Mata, University of Alcalá

Germany: Achim Aigner, University of Leipzig

France: Jean Pierre Majoral, CNRS, Laboratoire de Chimie de Coordination in Toulouse

Lithuania: Maria Issagouliantis, Riga Stradiņš University

India: Wahid Khan, National Institute of Pharmaceutical Education and Research in Hyderabad

Selected publications

- 2021 ***Nanoparticles for local delivery of siRNA in lung therapy*** [\[link\]](#)
- 2022 ***Heterofunctionalized polyphenolic dendrimers decorated with caffeic acid: Synthesis, characterization and antioxidant activity*** [\[link\]](#)
- 2023 ***Ruthenium metalloidendrimer against triple-negative breast cancer in mice*** [\[link\]](#)

Research grants

Principal Investigator: 4 grants: MNiSW, NAWA

Co-Investigator: 9 grants: NCN, NAWA, The European Commission's HORIZON 2020

Obtained patents

2 patents given by Polish Patent Office

International research stays

UK, UCL, Institute of Molecular Neuroscience, team of prof. A. Abramov

Sweden, Karolinska Institutet - a Medical University, Department of Microbiology, Tumor and Cell Biology, team of prof. Maria Issagouliantis

Greece, University of Athens, Laboratory of Pharmaceutical Technology, team of prof. Costas Demetzos

Spain, Gregorio Marañón Universitario Hospital in Madrid, team of prof. Maria Angeles Muñoz Fernandez