



MSc Julia Lipowicz

MEDICAL BIOTECHNOLOGY MSc · PHD CANDIDATE ·
NCN PRELUDIUM GRANT MANAGER

My experience spans years of work in the scientific, medical and academic communities, with a particular emphasis on laboratory work in molecular biology, microbiology and genetic engineering. I possess numerous competencies in biotechnology, bioinformatics, scientific publishing, academic pedagogy and research grant management.

CONTACT

- ✉ **E-mail**
lipowicz.j.m@gmail.com
- ☎ **Phone**
+48 500 124 356
- 📍 **Location**
Poznań, Poland
- 🌐 **Website**
julialipowicz.pl

SCIENTIFIC PROFILES

- **LinkedIn**
linkedin.com/in/julialipowicz
- **Web of Science**
KPY-3497-2024
- **ResearchGate**
Julia-Lipowicz-2
- **MOST Wiedzy**
mostwiedzy.pl

CORE SKILLS

- Biotechnology
- Laboratory work
- Bioinformatics
- Statistical analysis
- Genetic engineering
- Manuscript writing
- Peer review
- Academic teaching
- CRISPR/Cas9
- qPCR · Western blot
- Flow cytometry
- 2D/3D cell culture
- TCGA · GEO · cBioPortal
- R · GSEA
- ÅKTA / FPLC

SOFT SKILLS

- Research team management
- Project management
- Grant & budget management
- Leadership
- Scientific communication
- Conference presentations
- Student mentoring
- International team collaboration
- Critical thinking
- Work organisation
- Time management
- Problem solving

LANGUAGES

- Polish native
- English C2

ADDITIONAL

- 🚗 Driving licence – category B
- 🧬 Member of The Polish Medical Biotechnologists Association

ACTIVE GRANT

NCN Preludium 23 — Principal Investigator

"ERβ-dependent autophagy in colorectal cancer and its impact on tumorigenesis". Project value: **PLN 209,860**. Planning and conducting experiments, managing budget and team, writing outcome reports and publishing manuscripts in English.

WORK EXPERIENCE

10/2022 — present

PhD Candidate, Doctoral School

Poznan University of Medical Sciences, Poland

Research and teaching in the medical environment, with emphasis on developing laboratory skills and working with students. Laboratory work covers the molecular biology of cancer, cell and microbiological culture, and all analyses related to genetic engineering.

02/2025 — present

NCN Preludium 23 Grant Manager

National Science Centre · Poznan University of Medical Sciences

Leading the research project "ERβ-dependent autophagy in colorectal cancer and its impact on tumorigenesis" (value: PLN 209,860). Planning and conducting experiments, managing budget and team, writing outcome reports and publishing manuscripts in English.

03/2023 — 05/2025

Manager of the Large Research Grant of the Doctoral School

Poznan University of Medical Sciences

Responsible for planning and conducting analyses, as well as publishing the obtained results through conference presentations and scientific publications.

04/2023 — 05/2023

STER-NAWA Research Internship

University of Stuttgart, Germany · Department of Molecular Biochemistry

Worked with electron microscopy, flow cytometry and the CRISPR/Cas9 system.

IN THE MEDIA

- **ÄKTA Pure (FPLC)**
Equipment custodian — Centre for Experimental Medicine, PUMS. cmd.ump.edu.pl
- **NCN Preludium 23 grant**
"Nine PUMS doctoral students broke the bank in Preludium 23". rynekzdrowia.pl
- **"Science is a woman!"**
A PUMS series featuring women in science. ump.edu.pl
- **PUMS Doctoral School**
Award and recognition for scientific results and first-author publications. doctoralschool.ump.edu.pl

HOME RESEARCH TEAM

Department of Histology and Embryology, Poznan University of Medical Sciences — projects in molecular biology of cancer, autophagy and estrogen receptor ER β . histologia.ump.edu.pl

ABOUT ME

I specialise in the molecular biology of cancer — particularly mechanisms of multidrug resistance, epigenetics and genetic engineering. I work both at the laboratory bench and in transcriptomic data analysis using TCGA, GEO and cBioPortal databases.

EDUCATION

11/2022 — present

DOCTORAL SCHOOL

Poznan University of Medical Sciences

10/2017 — 06/2022

MASTER OF SCIENCE IN MEDICAL BIOTECHNOLOGY

Poznan University of Medical Sciences

SCIENTIFIC PUBLICATIONS

- 1 **Genes co-expressed with ESR2 influence clinical outcomes in cancer patients: TCGA data analysis**
International Journal of Molecular Sciences · 2024
FIRST AUTHOR
- 2 **Estrogen receptor β affects hypoxia response in colorectal cancer cells**
BBA – Molecular Basis of Disease · 2023
- 3 **It runs in the bromodomain family: speckled proteins (SP) play a role in the antitumor immune response in solid tumors**
International Journal of Molecular Sciences · 2023
- 4 **The association between bromodomain proteins and cancer stemness in different solid tumor types**
International Journal of Cancer · 2022
- 5 **Elacridar inhibits BCRP protein activity in 2D and 3D cell culture models of ovarian cancer and re-sensitizes cells to cytotoxic drugs**
International Journal of Molecular Sciences · 2025
- 6 **Elacridar reverses P-gp-mediated drug resistance in ovarian cancer cells in 2D and 3D culture models**
International Journal of Molecular Sciences · 2025
- 7 **The RNA world: from experimental laboratory to "in silico" approach. Part 1: user friendly RNA expression databases portals**
Reports of Practical Oncology and Radiotherapy · 2024

CERTIFICATES

Data Visualization for Genome Biology

University of Toronto · 2024

R Programming

Johns Hopkins University · 2026

Good with Words: Writing and Editing

University of Michigan · 2026

Google AI Professional Certificate

Google · 2026

Focus on Peer Review

Nature Masterclasses · 2025

UNICORN software for chromatography

Cytiva · 2024

The Data Scientist's Toolbox

Johns Hopkins University · 2026

Content Creation and Copywriting

Coursera · 2026

Introduction to Generative AI

MIT · 2025

Introduction to Artificial Intelligence

IBM · 2026

Chromatin Workshop: Tagmentation, ChIP, RNA-seq, Bioinformatics

Hologic Diagenode · 2025

ÄKTA chromatography systems

Cytiva · 2024