Przemysław **Płociński**

Associate Professor – University of Lodz

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Currently held positions

Department of Immunology and Infectious Biology, Faculty of Biology and Environmental Protection *University of Lodz*

Assosiate Professor

Scientific profile and collaborations

I specialize in **molecular microbiology**, with a particular emphasis on the **biology of Mycobacterium tuberculosis, RNA metabolism,** and **biomaterials**. My academic journey began at the **University of Łódź** in Poland, where I earned my degrees and later joined the **Department of Immunology and Infectious Biology** as an **associate professor**. I obtained my **M.Sc. in Biology** with a specialization in Microbiology from the University of Łódź (2007), followed by a **Ph.D. in Medical Biology** from the **Institute of Medical Biology of the Polish Academy of Sciences** (2011). I also completed postgraduate studies in Informatics, with an emphasis on database systems, programming, and data analysis (2012), which greatly complement my research in genomics and bioinformatics.

My professional experience spans several leading research institutions across Europe and the United States. I began my research career at the **University of Texas Health Science Center in Tyler** (UTHSCT, 2007–2010), where I worked on **regulatory proteins and signaling in *M. tuberculosis***. From 2011 to 2016, I was affiliated with the **Institute of Biochemistry and Biophysics of the Polish Academy of Sciences**, and in 2014, I held a **postdoctoral position** at the **National Institute for Medical Research (NIMR)** in the United Kingdom. Between 2014 and 2016, I held a **Visiting Fellowship** at the **Genome Damage and Stability Centre** at the **University of Sussex** (Brighton, UK), where I contributed to research on **DNA repair mechanisms in mycobacteria**. Since 2016, I have been a **research fellow** at the **Institute of Medical Biology PAS**, and from 2020 to 2024 I served as a research-focused **assistant professor** at the **University of Łódź**. In August 2024, I was promoted to **university professor** at the **Faculty of Biology and Environmental Protection** at the **University of Łódź**.

Over the years, I have collaborated extensively with both national and international institutions. My research has benefited from interdisciplinary projects involving institutions such as the **Institute of Pharmacology and Structural Biology in Toulouse** (France) and multiple research units from Poland. I am experienced in **genomics, protein expression, *in vivo* experimentation, bioinformatics,** and **next-generation sequencing**. These diverse competencies and global partnerships have enabled me to develop a well-rounded and innovative research profile grounded in both **fundamental microbiology** and **translational biomedical science**.

Selected publications

2017 ***A non-canonical mismatch repair pathway in prokaryotes*** **[link]**

2017 ***DNA Ligase C and Prim-PolC participate in base excision repair in mycobacteria*** **[link]**

2019 ***Proteomic and transcriptomic experiments reveal an essential role of RNA degradosome complexes in shaping the transcriptome of Mycobacterium tuberculosis*** **[link]**

Research grants

Principal Investigator: 5 grants: NCN, MNiSW, NAWA

Project Manager or Work Leader: 2 grants: NCN, FNP

Co-Investigator: 6 grants: NIH R01 USA, NCN, The European Commission's FP7 and EIC, NCBiR

Obtained patents

2 patents given by Polish Patent Office

International research stays

Robert Koch Institute, Wernigerode, Germany, Prof. Helmut Tschape group (2006, 2 months)

University of Texas, Health Science Center at Tyler, Tyler, Texas, The USA, Prof. Malini Rajagopalan group (2007-2010, 40 months)

National Institute for Medical Research (NIMR, currently The Francis Crick Institute), London, The UK, Prof. Douglas Young group (2014, 6 months)

Genome Damage and Stability Centre, University of Sussex, Brighton, The UK, Prof. Aidan Doherty group (2014-2016, 24 months)