



Michał Rachwalski

ASSOCIATE PROFESSOR – UNIVERSITY OF ŁÓDŹ

✉ michal.rachwalski@chemia.uni.lodz.pl | 🏠 www.uni.lodz.pl/pracownicy/michal-rachwalski |

ORCID [0000-0003-4803-8078](https://orcid.org/0000-0003-4803-8078) | Scopus bibliometric data: citations **1044** · documents **55** · h-index **20**

Currently held positions

Department of Organic and Applied Chemistry, Faculty of Chemistry

University of Łódź

ASSOCIATE PROFESSOR

Scientific profile and collaborations

My research focuses on organic synthesis, with a particular emphasis on asymmetric synthesis using chiral heteroorganic catalytic systems including enzymes. A recurring structural motif in the synthesized catalysts is the three-membered heterocyclic aziridine ring. In collaboration with the Faculty of Biology and Environmental Protection at the University of Łódź, we also investigate the biological activity of the obtained chiral aziridine derivatives.

Selected publications

- 2013 *Recent advances in enzymatic and chemical deracemisation of racemic compounds* [\[link\]](#)
- 2013 *Efficient catalysts for asymmetric Mannich reaction* [\[link\]](#)
- 2007 *Enzyme-promoted desymmetrisation of prochiral bis(cyanomethyl)sulfoxide* [\[link\]](#)

Research grants

Principal Investigator: 2 NCN grants

Co-Investigator: 5 grants: KBN, NCN, MNiSW, The Netherlands Organisation for Scientific Research (NWO-CW), ACTS IBOS (Integration of Biosynthesis and Organic Synthesis) programme (2012)

International research stays

Germany, Gießen, Justus Liebig University, Prof. Peter Schreiner's group

The Netherlands, Nijmegen, Radboud University, Prof. Floris Rutjes' group