

INSTITUTE OF ORGANIC CHEMISTRY

P O L I S H A C A D E M Y O F S C I E N C E S

Curriculum Vitae

OSTASZEWSKI Ryszard

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PERSONAL

Born in Pruszków (Poland), Polish citizen, two children (1989, 1994)

LANGUAGES

Polish – native language

English – speak fluently and read/write with high proficiency

German – good

Russian – still quite good improving

EDUCATION

- 1989: Thesis with honors in synthetic organic chemistry at Institute of Organic Chemistry, Polish Academy of Sciences. Supervisor Professor Janusz Jurczak. Title: *High-Pressure Approach to the Synthesis of Diazacoronads and Cryptands*.
- 1986-1989: Doctoral studies, Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw
- 1984: Thesis in inorganic chemistry with honors. Supervisor Professor K. Brudzewski. Title: *Electrochemical and Ellipsometrical Studies of Electrical Double Layer*.
- 1979-1984: Undergraduate and graduate studies, Faculty of Chemistry, Warsaw University of Technology

ACADEMIC CAREER

- 2009-present: Professor at Institute of Organic Chemistry, Polish Academy of Sciences
- 2007-2008: Associate Professor at Faculty of Chemical and Process Engineering, Warsaw University of Technology,
- 2006-2007: Associate Professor at Centre for Biotechnology, Warsaw University of Technology
- 2003-2009: Associate Professor at Institute of Organic Chemistry, Polish Academy of Sciences
- 2000 -2006: Senior Research Scientist at Faculty of Chemistry, Warsaw University of Technology
- 2000: Visiting Scientist at Proctor @ Gamble Pharmaceuticals Ohio, USA 1999, 6 weeks
- 1999: Habilitation. Thesis: *"The Synthesis and Complexation Studies of Anthracene Molecular Receptors"*.
- 1995-2003: Senior Research Scientist with Professor Janusz Jurczak.
- 1994-1995: ETH Postdoctoral fellow with Professor. H.-J. Hansen at University of Zurich, Switzerland
- 1990-1994: Research Scientist with Professor Janusz Jurczak
- 1989-1990: Postdoctoral fellow with Professor D. N. Reinhoudt, University of Twente, the Netherlands
- 1989: Award of the Polish Chemical Society for young scientists.
- 1989: Research Scientist with Professor Janusz Jurczak, Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw

1985-1986: Military Service

DEGREES

MS. in Inorganic Chemistry

Ph.D. in Organic chemistry

D. Sc. in Organic Chemistry

Professor in Organic Chemistry

RESEARCH AREAS

Organic Synthesis, Biocatalysis, Enzyme Purification and Immobilization, Stereochemistry, Natural Product, Medicinal Chemistry, Multicomponent reactions, medicinal chemistry.

Number of Ph.D. STUDENTS supervised 10

International and domestic scientific projects

Project supported by Polish State Committee for Scientific Research total number 8

International project; "Application of enzymatic reaction to the synthesis of chiral combinatorial libraries".

Project was supported by Procter & Gamble Pharmaceuticals, Health Care Research Center, Ohio, USA (2002 – 2004),

From 2013 to 2018 Member of the COST Action CM1303 "Chemistry and Molecular Sciences and Technologies"

• From 2013 to 2018 Member of the COST Action CM1304 "Emergence and Evolution of Complex Chemical Systems"

From 2015 to 2018 Leader of the international "Harmonia" project. Scientific cooperation with prof. Peter Walde, ETH Zurich, Switzerland and prof. Wolfgang Kroutil, University of Graz, Austria.

From 2019 Member of the COST Action 17104 "New diagnostic and therapeutic tools against multidrug resistant tumors".

Selected Awards

Award of the Polish Chemical Society for young scientists 1989; Silver award for Statines synthesis on the Targi Przemysłu Chemicznego EXPOCHEM 2011; Gold award for Statines synthesis on the Targi Przemysłu Chemicznego EXPOCHEM 2011; Award for „Adenanthin targets proteins involved in the regulation of disulphide bonds" obtained from Medical University of Warsaw 2015.

Publication: over 150

Other publications/Thesis: 15/10

Patents: 9

Hobbies: woodcarving, aikido, classic music

The most relevant publications for recent 5 years (2020-2025).

1. D. Paprocki, S. Berłożecki, R. Ostaszewski, *Environ. Chem. Lett.*, **2020**, *18*, 165, „Environmental-friendly one-pot cascade synthesis of 3-cyanopiperidin-2,6-dione”,
2. E. Zaorska, T. Tomasova, D. Koszelewski, R. Ostaszewski, M. Ufnal, *Biomolecules*, **2020**, *10*, 232, “Hydrogen sulfide in pharmacotherapy, beyond the classical hydrogen sulfide-donors”
3. D. Paprocki, D. Koszelewski, A. Madej, A. Brodzka, P. Walde, R. Ostaszewski, *Chemistry Select*, **2020**, *5*, 9607, “Evaluation of Biodegradable Glucose Based Surfactants as a Promoting Medium for the Synthesis of Peptidomimetics with the Coumarin Scaffold”
4. A. Brodzka, D. Koszelewski, R. Ostaszewski, *JOC* **2020**, *85*, 15305, “Dual activity of Grubbs-type catalyst in the transvinylation of carboxylic acids and ring closing-metathesis reactions”

5. M. Wilk, R. Ostaszewski, *ChemBioChem*, **2021**, 22, 1464–1469 "Efficient assay for the detection of hydrogen peroxide via estimation of the enzyme promiscuous activity in the perhydrolysis reaction"
6. E. Zaorska, M. Gawrys-Kopczynska, R. Ostaszewski, M. Ufnal, D. Koszelewski, *Bioorganic Chemistry*, **2021**, 108, 104650, "'Evaluation of thionolactones as a new type of hydrogen sulfide (H₂S) donors for a blood pressure regulation",
7. D. Koszelewski, A. Brodzka, A. Madej, D. Trzepizur, R. Ostaszewski, *JOC*, **2021**, 86, 6331–6342, "Evaluation of gem-diacetates as alternative reagents for enzymatic regio- and stereoselective acylation of alcohols",
8. M. Wilk, A. Brodzka, D. Koszelewski, J. Samsonowicz-Górski, R. Ostaszewski, „Model Studies on the Enzyme-Regulated Stereodivergent Cascade Passerini Reaction”, *Eur. J. Org. Chem.* **2021**, 4161,
9. D. Trzepizur, A. Brodzka, D. Koszelewski, M. Wilk, R. Ostaszewski, „Palladium Catalyzed α,β -Homodiarylation of Vinyl Esters in Aqueous Medium”, *Eur. JOC* **2021**, 6028,
10. M. Kublicki, D. Koszelewski, A. Brodzka, R. Ostaszewski, „Wheat germ lipase: isolation, purification and applications”, *Critical Reviews in Biotechnology*, **2022**, 42, 184,
11. D. Koszelewski, D. Paprocki, A. Brodzka, A. Kęciek, M. Wilk, R. Ostaszewski “The sustainable copper-catalyzed direct formation of highly functionalized p-quinols in water”, *Sustainable Chemistry and Pharmacy*, **2022**, 25, 100576,
12. A. Wołos, D. Koszelewski, R. Roszak, S. Szymkuć, M. Moskal, R. Ostaszewski, B. T. Herrera, J. M. Maier, G. Brezicki, J. Samuel, J. A. M. Lummiss, D. T. McQuade, L. Rogers, B. A. Grzybowski, “Computer-designed repurposing of chemical wastes into drugs.”, *Nature*, **2022**, 604, 668,
13. J. Samsonowicz-Gorski, A. Brodzka, R. Ostaszewski, D. Koszelewski, “Screening for amidoxime reductases in plant roots and *Saccharomyces cerevisiae* – development of biocatalytic method for chemoselective amidine synthesis”, *Bioorganic Chemistry*, **2022**, 124, 105815,
14. J. Samsonowicz-Gorski, D. Koszelewski, A. Hrunyk, R. Ostaszewski, A. Brodzka, “Chemoenzymatic cascade reaction as a sustainable and scalable access to para-quinols”, *Green Chemistry* **2023**, 25, 6306,
15. E. Cassese, D. Koszelewski, A. Brodzka, D. S. Wavhal, P. Kowalczyk, R. Ostaszewski, „ Tuning the lipophilicity of new ciprofloxacin derivatives in selected ESKAPE bacteria with emphasis on *E. coli* mutants”, *Bioorganic Chemistry*, **2025**, 108324.