

Andrzej Kutner

Curriculum Vitae



Personal details

Current occupation: Department of Drug Chemistry, Pharmaceutical and Biomedical Analysis, Faculty of Pharmacy, Medical University of Warsaw, 02-097 Warsaw, 1 Banacha, Poland, research and teaching professor <https://wf.wum.edu.pl/en>
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Education

M.Sc. in chemistry, with distinction, Chemistry Department, University of Warsaw, "Synthesis and Baeyer-Villiger rearrangement of cholestanones", supervisor - Prof. Władysław J. Rodewald

Ph.D. in chemical sciences, with distinction, Chemistry Department, University of Warsaw, thesis: "Studies on natural cholanoic acids of therapeutic potential", supervisor – Romana Jaworska, PhD

D.Sc. (habilitation), Pharmacy Department, Medical Academy of Warsaw (currently: The Medical University of Warsaw), "Studies on active analogs of vitamins D"

Professor in pharmaceutical sciences, Faculty of Pharmacy, Medical Academy of Warsaw (currently: Medical University of Warsaw)

Research positions and honors

1976 – 2018 Pharmaceutical Research Institute (PRI), Warsaw, PL, from research assistant to professor
1984 - 1986 and 1987 University of Wisconsin-Madison, Department of Biochemistry, USA, a research associate with Prof. Hector F. DeLuca
1990 - 1997 Head of contract research and manufacturing with a pharmaceutical company Solvay B.V., The Netherlands, "Design, synthesis, and manufacturing of vitamin D compounds"
1993 New York University, Department of Chemistry, USA, visiting scientist with

- Prof. Stephen R. Wilson
- 1998 Visiting Professor, short visits and lectures at the University of Minnesota, Duluth, Chemistry Dept., with Prof. Ronald Caple; University of California, Riverside, Chemistry Dept., with Prof. William H. Okamura; University of Wisconsin Madison, Biochemistry Dept, with Prof. H.F. DeLuca
- 1999 Guest Editor, *Current Pharmaceutical Design*, Special Issue “Vitamin D Inhibitors of Cancer Growth”
- 2000 - 2012 Research Director of PRI, three consecutive terms
- 2006 - present „Strategies of pharmaceutical syntheses”, teaching course at the Chemistry Department, University of Warsaw
- 2012 - 2015 Chair, Scientific Board, PRI
- 2012 - 2014 External Expert to National Science Center, Cracow, PL
- 2012 - 2013 Member, National Committee for evaluation of grant proposals, National Center for Research and Development, Operational Program of Innovative Economy PO IG 2007-2012, Action 1.3.2., patent protection of R&D, the representative of the scientific community, Warsaw, PL
- 2013 - present External Expert, National Center for Research and Development, Warsaw, PL
- 2014 Member of the Panel of Chemical and Pharmaceutical Sciences, World Undergraduate Award, Ireland
- 2016 - present External Expert of the Ministry of Development, Warsaw, PL
- 2018 - present Official representative of the National Center of Research and Development to the Bridge Alfa Program, Life Sciences, and RSD Funds and reviewer of several R+D Projects, Warsaw
- 2019 - present
- the Medical University of Warsaw, Faculty of Pharmacy, Department of Bioanalysis and Drug Analysis and Department of Drug Chemistry, research and teaching professor
 - Austrian Science Fund (FWF), independent reviewer
 - representation of the National Center of Research and Development to the Intelligent Development Operational Program Investment Committee, Action 1.3.1. Bridge Alfa, LSI, and RDS Funds; 11 reviews of R&D projects
 - external expert, Intelligent Development Operational Program, Action 3.2.2. „Loan for technological innovations” (Agreement No. 034-01/2020 na lata 2020-2027)
- 2020- present
- Representative of the National Center of Research and Development to the Investment Committee, Intelligent Development Operational Program, Action 1.3.1., Bridge Alfa (Agreement No. 50/2020/E)
 - member, Project Evaluation Committee, Intelligent Development Operational Program, Action 3.2.2. “Loan for technological innovations” 2014-2020, Call No. 6 and 7
 - Section Editor, „Natural products chemistry”, *Molecules* (MDPI), https://www.mdpi.com/journal/molecules/sectioneditors/natural_products_chemistry
- 2022- present
- Co-Chair, Scientific Committee, Interdisciplinary Conference on Drug Sciences, ACCORD 2022, <https://accord.wum.edu.pl/> and ACCORD 2024, <https://accord.wum.edu.pl/>

Recent EU-funded grants

2013-2016 FP7-PEOPLE-2012-ITN, Project acronym: DECIDE, “Decision-making within cells and differentiation entity therapies”, Co-chair and WP2 Lead, grant ID: 315902, <https://www.birmingham.ac.uk/generic/decide/partners/index.aspx>

2018-2022 Horizon 2020, MSCA, RISE, Project acronym: ORBIS, “Open Research Biopharmaceutical InternshipSupport”, Co-chair and WP1 Co-Lead, 2018, grant ID: 778051, <http://www.orbisproject.eu>

2023-2027 HORIZON-MSCA-2022-DN-01-01, Project acronym: “*eRaDicate*”, Co-chair and WP3 Lead, “Innovative ligands for nuclear receptors to eradicate cancer relapse”, grant ID 101119427

Research interests

medicinal chemistry, structure-activity relationship, synthetic strategies of pharmaceutical substances, design and synthesis of vitamin A and D anticancer analogs, structure analysis of nuclear receptor ligands

Recent publications (2022)

- Jyoti, Renata Rybakiewicz-Sekita, Teresa Żołek, Dorota Maciejewska, Edyta Gilant, Katarzyna Buś-Kwaśnik, Andrzej Kutner, Krzysztof R. Noworyta, Włodzimierz Kutner, Cilostazol-imprinted polymer film-coated electrode as an electrochemical chemosensor for selective determination of cilostazol and its active primary metabolite, *Journal of Materials Chemistry B*, 2022, <https://doi.org/10.1039/d1tb02186a>, IF 6.331, MEN 140 points.
- Karina Piątek, Andrzej Kutner, Dan Cacsire Castillo-Tong, Teresa Manhardt, Nadja Kupper, Urszula Nowak, Michał Chodyński, Ewa Marcinkowska, Enikő Kallay, Martin Schepelmann, Vitamin D Analogs Regulate the Vitamin D System and Proliferation in Ovarian Cancer Cells, *Int. J. Mol. Sci.* 2022, 23, 172. <https://doi.org/10.3390/ijms23010172>, IF 5.924, 140 points MEN.
- Justyna Joanna Gleba, Dagmara Kłopotowska, Joanna Banach, Eliza Turlej, Karolina Anna Mielko, Katarzyna Gębura, Katarzyna Bogunia-Kubik, Andrzej Kutner, Joanna Wietrzyk, Polymorphism of VDR Gene and the Sensitivity of Human Leukemia and Lymphoma Cells to Active Forms of Vitamin D, *Cancers* 2022, 14, 387. <https://doi.org/10.3390/cancers14020387>, IF 6.639, MEN 140 points.
- Monika Wanat, Maura Malinska, Andrzej Kutner, Krzysztof Woźniak, First

experimental quantitative charge density studies of advanced intermediate of vitamin D analogues, *Molecules*, 2022, 27(6), 1757, <https://doi.org/10.3390/molecules27061757>, IF 4.412, 100 points MEN, the cover page of Issue 6 Vol 27.

- Jyoti, Teresa Żołek, Dorota Maciejewska, Edyta Gilant, Elzbieta Gniazdowska, Andrzej Kutner, Krzysztof R. Noworyta, and Włodzimierz Kutner. Polytyramine Film-Coated Single-Walled Carbon Nanotube Electrochemical Chemosensor with Molecularly Imprinted Polymer Nanoparticles for Duloxetine-Selective Determination in Human Plasma. *ACS Sensors* 2022, <https://doi.org/10.1021/acssensors.2c00124>, <https://pubs.acs.org/action/showCitFormats?doi=10.1021/acssensors.2c00124&ref=pdf> IF 7.711; MEN 140 points, article graphical abstract on the cover page of the journal.
- Justyna Joanna Gleba, Dagmara Kłopotowska, Joanna Banach, Karolina Anna Mielko, Eliza Turlej, Magdalena Maciejewska, Andrzej Kutner, and Joanna Wietrzyk. Micro-RNAs in Response to Active Forms of Vitamin D₃ in Human Leukemia and Lymphoma Cells. *Int. J. Mol. Sci.* 2022, 23(9), 5019; <https://doi.org/10.3390/ijms23095019>, IF 5.942, MEN 140 points.
- Andrzej Kutner, Geoffrey Brown, Enikoe Kallay, Novel Strategies in the Development of New Therapies, Drug Substances, and Drug Carriers Volume I, *Int. J. Mol. Sci.* 2022, 23(12), 6635, <https://doi.org/10.3390/ijms23126635>, IF 5.924, 140 points MNiSW, Editorial.

Reviewer for scientific journals

Bioorganic Chemistry, Molecules, Pharmaceuticals, International Journal of Molecular Sciences, Journal of Steroid Biochemistry and Molecular Biology, Steroids

