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Current research grants:

- "Interdisciplinary Conference on Drug Sciences ACCORD 2024", co-financing, Ministry of Education and Science, 2024, Co-Chair, https://accord.wum.edu.pl/scientific-committee/
- *"Innovative ligands for nuclear receptors to eradicate cancer relapse", Horizon-MSCA-DN "eRaDicate"*, 2024-2027, Co-Chair, WP3 Lead, Project Leader at MUW
- "Chemosensors with molecularly imprinted polymers for determination of antiviral active drug substances in body fluids - towards personalized medicine", National Science Center, 2024-2027, Project Leader at MUW

Education:

- MSc and PhD in chemistry, with distinction, Chemistry Dept. University of Warsaw (UoW), PL
- D.Sc. (habilitation), Faculty of Pharmacy, MUW
- Professor in pharmaceutical sciences, Faculty of Pharmacy, MUW

Academic and industrial experience:

- Research Director, Pharmaceutical Research Institute, Warsaw, PL, Head of contract research and manufacturing with Solvay B.V., The Netherlands
- postdoctoral fellow, visiting scientist and visiting professor, University of Wisconsin-Madison, Biochemistry Dept.; New York University, Chemistry Dept.; University of Minnesota, Duluth, Chemistry Dept., University of California, Riverside, Chemistry Dept.
- External Expert to National Science Center, National Center for Research and Development, and Office for Registration of Medicinal Products, Medical Devices and Biocidal Products, PL
- Lecturing on the strategies of pharmaceutical syntheses, Chemistry Dept., UoW, PL
- Lecturing on the advanced medicinal chemistry of antiviral drug substances, Chemistry Dept., UoW and Pharmacy Dept., MUW
- Lecturing on instrumental analysis and industrial pharmacy, Pharmacy Dept., MUW

Research interests

- medicinal chemistry of vitamin A and D anticancer analogs
- structural analysis of nuclear receptor ligands
- polymer imprinted chemosensors for drug substances

Representative publications

- B. Grodner, T. Żołek, **A. Kutner**. Nonaqueous Capillary Electrophoretic Separation of Analogs of (24*R*)-1,24-Dihydroxyvitamin D_3 Derivative as Predicted by Quantum Chemical Calculations. https://doi.org/10.3390/molecules28135055, *Molecules*, 2023, *28*(13), 5055.
- T. Żołek, K. Yasuda, G. Brown, T. Sakaki, **A. Kutner**. *In silico* prediction of the metabolic resistance of vitamin D analogs against CYP3A4 metabolizing enzyme, *Int. J. Mol. Sci.*, 2022, 23, 7845. https://doi.org/10.3390/ijms23147845.
- Jyoti, T. Żołek, D. Maciejewska, E. Gilant, E. Gniazdowska, **A. Kutner**, K.R. Noworyta, W. 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, 7, 1829−1836, https://doi.org/10.1021/acssensors.2c00124.
- M. Wanat, M. Malinska, A. Kutner, K. 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.
- J.J. Gleba, D. Kłopotowska, J. Banach, E. Turlej, K.A. Mielko, K. Gębura, K. Bogunia-Kubik, **A. Kutner**, J. 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.
- **A. Kutner**, G. Brown, Vitamins D: Relationship between Structure and Biological Activity, *Int. J. Mol. Sci.* 2018, 19, 2119; *doi:10.3390/ijms19072119*.
- S. Nadkarni, M. Chodyński, A. Corcoran, E. Marcinkowska, G. Brown, **A. Kutner**. Double point modified analogs of vitamin D as potent activators of vitamin D receptor, *Curr. Pharm. Design*, 21(13) 1741-1763 (2015), https://doi.org/10.1016/j.jsbmb.2015.08.022.
- N.R. Bolla, G. Brown, E. Marcinkowska, **A. Kutner**, Retiferols – synthesis and biological activity of a conceptually novel class of vitamin D analogs, *Exp. Opinion Ther. Pat.*, 24(6):633-46 (2014), https://doi.org/10.1016/j.steroids.2013.06.001.
- A. Pietraszek, M. Malińska, M. Chodyński, M. Krupa, K. Krajewski, P. Cmoch, K. Woźniak, **A. Kutner**, Synthesis and crystallographic study of analogs of 1,25-dihydroxyergocalciferol, *Steroids*, 2013, 78(10), 1003-1014, https://doi.org/10.1016/j.steroids.2013.06.001.