



Anna Krześlak

ASSOCIATE PROFESSOR – UNIVERSITY OF LODZ · HEAD OF DEPARTMENT OF CYTOBIOCHEMISTRY – UNIVERSITY OF LODZ

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Currently held positions

Department of Cytochemistry, Faculty of Biology and Environmental Protection

University of Lodz

ASSOCIATE PROFESSOR

Faculty of Biology and Environmental Protection

University of Lodz

HEAD OF THE DEPARTMENT OF CYTOBIOCHEMISTRY

Scientific profile and collaborations

My scientific research focuses on cancer biology. I am involved in studies on human cancers in many aspects, but mostly I am interested in epigenetic regulation of gene expression and impact of altered protein O-GlcNAcylation on cancer metabolism and metastasis. In research on the role of O-GlcNAcylation in carcinogenesis my team cooperates with researches from The Institute for Structural and Functional Glycobiology, UGFS, University of Lille, France. In addition, I am involved in research on diagnostic and prognostic biomarkers of cancers, as well as new potential anticancer drugs. These studies are conducted in cooperation with chemists from the Faculty of Chemistry of the University of Lodz and doctors from Department of Thoracic, General and Oncological Surgery, Medical University of Lodz as well as Provincial Integrated Hospital in Plock

Selected publications

- 2024 ***RING1 Inhibition Has a Cell-Specific Antitumoral Role by Promoting Autophagy in Endometrial Cancer Cells*** [\[link\]](#)
- 2021 ***TET3- and OGT-Dependent Expression of Genes Involved in Epithelial-Mesenchymal Transition in Endometrial Cancer*** [\[link\]](#)
- 2018 ***Impact of OGT deregulation on EZH2 target genes FOXA1 and FOXC1 expression in breast cancer cells*** [\[link\]](#)

Research grants

Principal Investigator: 2 grants: MNiSW, NCN

Research supervisor: 2 grants: NCN Preludium projects

International research stays

USA, Laboratory of Cell Biochemistry and Biology, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, in the team of Dr John A. Hanover