



Weronika Gonciarz

ASSOCIATE PROFESSOR – UNIVERSITY OF LODZ

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Scopus bibliometric data: citations 709 · documents 56 · h-index 15 |  Weronika-Gonciarz

Currently held positions

Department in Immunology and Infectious Biology, Faculty of Biology and Environmental Protection

University of Lodz

ASSOCIATE PROFESSOR

Scientific profile and collaborations

My scientific research focuses on immunology with a primary emphasis on host-pathogen interaction during *Helicobacter pylori* infection. I am actively involved in developing novel therapeutic strategies, including testing new drugs, particularly those based on the *Mycobacterium bovis* BCG vaccine, enclosed in microparticles to support the treatment of *H. pylori* infections. These studies are conducted in collaboration with the Centre for Molecular and Macromolecular Studies, Polish Academy of Sciences (CBMM PAN) in Łódź, Poland, Medical University of Łódź, Poland, AGH University of Science and Technology Stanisław Staszic in Krakow, Poland, and Warsaw University of Life Sciences, Poland.

I have extensive experience in *H. pylori* research, including *in vitro* and *in vivo* models. My research has focused on studying the pathogenesis of *H. pylori* infection and the immunological mechanisms induced by the *M. bovis* BCG vaccine that may protect against *H. pylori* infections.

In addition, I am also involved in developing new therapies for gastric cancer. Specifically, I am testing new nanoparticle-based drug delivery systems in collaboration with the Centre for Molecular and Macromolecular Studies, Polish Academy of Sciences (CBMM PAN) in Łódź, Poland.

The research I conduct combines immunology and microbiology, aiming to expand fundamental knowledge and, in the future, develop new therapeutic strategies to support the treatment of *H. pylori* infections and gastric cancer.

Selected publications

- 2019 *The effect of Helicobacter pylori infection and different H. pylori components on the proliferation and apoptosis of gastric epithelial cells and fibroblasts* [\[link\]](#)
- 2023 *Diminishing of Helicobacter pylori adhesion to Cavia porcellus gastric epithelial cells by BCG vaccine mycobacteria* [\[link\]](#)
- 2024 *Mycobacterium bovis BCG reverses deleterious effects of H. pylori components towards gastric barrier cells in vitro* [\[link\]](#)

Research grants

Principal Investigator: 5 grants: NCN, IDUB UŁ

Co-Investigator: 10 grants: NCN, ABM, Commercial Project

Obtained patents

1 patent given by the Polish Patent Office

International research stays

Sweden Stockholm, Karolinska Institute, Department of Microbiology, Tumor and Cell Biology, in the team of Prof. Annelie Brauner

Spain Grenada, GENYO Genomics and Oncology Centre in Granada, Proteases and Extracellular Matrix Group, in the team of dr Juan Carlos