

dr hab. Lidia Błaszczyk

Institute of Plant Genetics, Polish Academy of Sciences (IPG PAS), Poznan, Poland

ACADEMIC AND RESEARCH CAREER

2017.10 – until present, Assistant Professor, Head of The Plant Microbiomics Team, Institute of Plant Genetics, Polish Academy of Sciences (IPG PAS), Poznan, Poland

2007.05 – 2017.09, Assistant Professor, Department of Molecular Biology renamed into Department of Metabolomics (2010), transformed into Department of Pathogen Genetics and Plant Resistance (1.01.2013), IPG PAS, Poznan, Poland

2003.10 – 2007.04, Assistant, Department of Molecular Biology, IPG PAS, Poznan, Poland

▪ 2017.09.05, Habilitation in Agricultural Sciences, Agronomy Discipline, Institute of Plant Genetics, Polish Academy of Sciences, Poznan, Poland

Habilitation thesis: “Species diversity of polish *Trichoderma* strains and their antagonistic activities towards phytopathogenic *Fusarium*”.

▪ 2007.04.03, PH.D. in Agricultural Sciences, Agronomy Discipline, Institute of Plant Genetics, Polish Academy of Sciences, Poznan, Poland

Ph.D. thesis: “Identification and mapping of the leaf rust resistance genes in wheat (*Triticum aestivum* L.)”, supervisor: prof. dr hab. Jerzy Chelkowski

▪ 2001.06.18, M.SC. in Biotechnology and Engineer’s Degree in Biotechnology, Plant Biotechnology Specialization, Faculty of Agronomy, Department of Biochemistry and Biotechnology, Poznań University of Life Sciences, Poland

M.Sc. thesis: “Analysis of the variable region of the 16S rRNA of the *Rhizobiaceae* strains nodulating *Lupinus* spp.” supervisor: dr hab. Krzysztof Pudelko

MAJOR RESEARCH PROJECTS

1. “The common wheat (*Triticum aestivum* L.) endosphere mycobiome dynamics and its impact on the growth and fitness of plant”, 2019-2021, funding: National Science Centre (NCN), no 2017/27/B/NZ9/01591
2. “The molecular basis of wheat (*Triticum aestivum* L.) responses to *Trichoderma* spp. root colonization”, 2016-2020, funding: National Science Centre (NCN), no 2015/19/B/NZ9/03083
3. “Characterization of the *Trichoderma* and *Clonostachys* fungi able to degrade the mycotoxins produced by *Fusarium* ssp”, 2009-2012, funding: Ministry of Science and Higher Education (MSHE), no N N310 203037
4. „Identification and mapping of the leaf rust resistance genes in wheat (*Triticum aestivum* L.)”, 2006, funding: Ministry of Science and Higher Education (MSHE), no 2 P06A 049 30, grant for PhD student, principal investigator

PUBLICATION (5 MAJOR PUBLICATIONS, LAST 5 YEARS)

1. **Błaszczyk, L.**; Waśkiewicz, A.; Gromadzka, K.; Mikołajczak, K.; Chelkowski, J. (2021). *Sarocladium* and *Lecanicillium* Associated with Maize Seeds and Their Potential to Form Selected Secondary Metabolites. *Biomolecules*, 11 (1): 98. DOI: 10.3390/biom11010098.
2. Basińska-Barczak A., **Błaszczyk L.**, Szentner K. (2020) Plant cell wall changes in common wheat roots as a result of their interaction with beneficial fungi of *Trichoderma*. *Cells* 9: 2319. DOI: 10.3390/cells9102319.
3. Salamon S., Mikołajczak K., **Błaszczyk L.**, Ratajczak K., Sulewska H. (2020) Changes in root-associated fungal communities in *Triticum aestivum* ssp. *spelta* L. and *Triticum aestivum* ssp. *vulgare* L. under drought stress and in various soil processing. *PLOS ONE* 15(10): e0240037. DOI: 10.1371/journal.pone.0240037.
4. Cłapa T., Mikołajczak K., **Błaszczyk L.**, Narożna D. (2020) Development of high-resolution melting PCR (HRM-PCR) assay to identify native fungal species associated with the wheat endosphere. *Journal of Applied Genetics* 61 (4): 629-635. DOI: 10.1007/s13353-020-00578-0.
5. Ratajczak K., Sulewska H., **Błaszczyk L.**, Basińska-Barczak A., Salamon S., Mikołajczak K., Szymańska G., Dryjański L. (2020) Growth and photosynthetic activity of selected spelt varieties (*Triticum aestivum* ssp. *spelta* L.) cultivated under drought conditions with different endophytic core microbiomes. *International Journal of Molecular Sciences* 21: 7987. DOI:10.3390/ijms21217987.