

Łukasz Stępień, Ph. D.

email: lste@igr.poznan.pl
tel. (+48 61) 655 02 19

Field of specialization:

molecular biology, genetics of plants and pathogenic fungi

Research interests:

genetics of cereals resistance against fungal diseases, identification and analysis of secondary metabolites biosynthetic genes in *Fusarium* genus

Training abroad:

- Chair of Agronomy and Plant Breeding, Technical University, Munich, Freising – Weißenstephan, Germany (2003, 2004, 2005, 3 months),
- Institute of Epidemiology and Resistance, Aschersleben, Germany (2006, 1 month),
- Institute of Sciences of Food Production ISPA, CNR, Bari, Italy (2008, 1 month)

Main publications:

Stępień, Ł., Koczyk, G., Waśkiewicz, A. 2011. „*FUM* cluster divergence in fumonisins-producing *Fusarium* species”. *Fungal Biology* 115: 112-123.
Stępień Ł., Chełkowski J. 2010. *Fusarium* Head Blight of wheat – pathogenic species and their mycotoxins. *World Mycotoxin Journal* 3(2): 107-119.
Stępień Ł., Waśkiewicz A, Wit M, Goliński P, Chełkowski J, Wakuliński W, 2008. Polymorphism of selected *fum* genes and fumonisin B₁ biosynthesis among isolates of six *Fusarium* species. *Cer Res Comm* 36B, 647-649.
Stępień Ł., Popiel D, Koczyk G, Chełkowski J, 2008. Wheat-infecting *Fusarium* species in Poland – their chemotypes and frequencies revealed by PCR assay. *J Appl Genet* 49(4): 433-441.
Stępień Ł., Mohler V, Bocianowski J, Koczyk G, 2007. Assessing genetic diversity of Polish wheat (*Triticum aestivum*) varieties using microsatellite markers. *Genet Resour Crop Ev*, 54(7): 1499-1506.
Stępień Ł., Chełkowski J., Wenzel G., Mohler V. 2004. Combined use of linked markers for genotyping the *Pm1* locus in common wheat. *Cell Mol Biol Lett* 9: 819-827.

Participation in national projects:

Polish Ministry of Science project PBZ-KBN-112/P06/2005: **Microorganisms and natural compounds potentially useful in crop breeding and mechanisms of their acting**, Microorganisms as biopesticides in wheat *Fusarium* disease control and mycotoxins accumulation in kernels. Prof. Dr hab. Jerzy Chełkowski (Project leader), Duration: 2006-2008

Polish Ministry of Science project **NN310 203037. Characteristics of the *Trichoderma* and *Clonostachys* fungi able to degradate the mycotoxins produced by *Fusaria***. (2009-2012). dr Lidia Błaszczuk (Project leader), Duration: 2009-2012

Polish Ministry of Science project **NN310 732440. „*FUM* genes polymorphism in different *Fusarium* species and its relation to fumonisin biosynthesis level”**. (Project leader), Duration: 2011-2014.