

Dr Lidia Błaszczyk

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Field of specialisation:

molecular genetics

Research area:

- Identification and mapping of leaf rust resistance genes in wheat (*Triticum aestivum* L.)
- Development and validation of DNA markers for leaf rust resistance genes in wheat
- Molecular identification of *Trichoderma* and *Clonostachys* species

Scientific fellowships:

Germany: Institute of Plant Genetics and Crop Plant Research, Gene and Genome mapping, Gaterslaben, 16.02.03 – 16.03.03. Mapping of leaf rust resistance genes *Lr37* on the microsatellite map of wheat.

Germany: Institute of Epidemiology and Resistance, Federal Centre for Breeding Research on Cultivated Plants, Aschersleben, 15.11.03 – 15.12.03. Development of the SNP marker of wheat *Lr1* leaf rust resistance gene.

Participation in research project:

Project of the Scientific Research State Committee no. PBZ/KBN/029/P06/2000. "Identification of DNA markers for wheat resistance genes " (1.10.2001 – 30.09.2004) – contractor

Project of the Scientific Research State Committee no. PBZ KBN 112/P06/2005. "Microorganisms as biopesticides in wheat *Fusarium* disease control and mycotoxins accumulation in kernels". (11.2005-10.2008) – contractor

Project of the Scientific Research State Committee no. 2 P06A 049 30. "Identification and mapping of leaf rust resistance genes in common wheat". (1.04.2006 – 20.09.2006) - main contractor

List of significant publications:

BŁASZCZYK L., KRAMER I., ORDON F., CHEŁKOWSKI J., TYRKA M. VIDA G., KARSAI I. 2008. Validity of selected DNA markers for breeding leaf rust resistant wheat. *Cereal Res. Com.* 36: 201-213.

BŁASZCZYK L., CHEŁKOWSKI J. 2005. Geny odporności na patogeny w genomie pszenicy. *Genomika i Bioinformatyka Roślin*, J. Chełkowski, G. Koczyk (red.), Instytut Genetyki Roślin PAN, Poznań, str. 139-157

BŁASZCZYK L., TYRKA M., CHEŁKOWSKI J. 2005. PstI AFLP based markers for leaf rust resistance genes in common wheat. *J. Appl. Genet.* 46 (4): 357-364.

BŁASZCZYK L., GOYEAU H., HUANG X., RÖDER M., STĘPIEŃ Ł., CHEŁKOWSKI J. 2004. Identifying leaf rust resistance genes and mapping gene *Lr37* on the microsatellite map of wheat. *Cell.Mol.Biol.Lett.* 9: 869-878

TYRKA M., BŁASZCZYK L., ORDON F., CHEŁKOWSKI J., KRAMER I., WEILEPP M., WIŚNIEWSKA H. 2004. Development of the single nucleotide polymorphism marker of wheat *Lr1* leaf rust resistance gene. *Cell.Mol.Biol.Lett.* 9: 879-889