

# Agnieszka Kielbowicz-Matuk Ph. D.

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## Born:

19<sup>th</sup> August 1977, Bielawa, Poland

## Scientific specialization:

plant molecular biology and genetics

## Research area:

molecular mechanisms of plant adaptation to low temperature and water deficit

## International cooperation:

- France, CEA/Cadarache, Département d'Ecophysiologie Végétale et Microbiologie, Laboratoire d'Ecophysiologie de la Photosynthèse, Saint-Paul-lez-Durance (Dr hab. Pascal Rey);

## Training abroad:

- France, Laboratoire d'Ecophysiologie de la Photosynthèse, DSV, DEVM, CEA/Cadarache, Saint-Paul-lez-Durance, 2004 (6 weeks);
- Germany, Golm, Max Planck Institute of Molecular Plant Physiology, Plant Lipids, 2005 (3 weeks);

## List of significant publications:

KIEŁBOWICZ-MATUK A., REY P., RORAT T. 2008. The organ-dependent abundance of a *Solanum* lipid transfer protein is up-regulated upon osmotic constraints and associated with cold acclimation ability. *J. Exp. Bot.* 59: 2191-2203.

KIEŁBOWICZ-MATUK A., REY P., RORAT P. 2007. The abundance of a single domain cyclophilin in *Solanaceae* is regulated as a function of organ type and high temperature and not by other environmental constraints. *Physiol. Plant.* 131: 387-398.

KIEŁBOWICZ-MATUK A. 2006. Plant immunophilins – structure and functions. *Postępy Biologii Komórki.* 33: 349-363.

KIEŁBOWICZ-MATUK A. 2006. Ns-LTP proteins – functional polymorphism. *Postępy Biologii Komórki.* 33: 437-452.

## National projects:

- Project of Ministry of Science and Higher Education (6 PO6A 038 20), **"Identification of genes which expression are associated with plant response to cold treatment"**, 2001-2004;
- Project of Ministry of Science and Higher Education (PBZ/KBN/029/2001), **"The influence of higher expression of genes encoding hydrophilic proteins on potato freezing resistance (*S. tuberosum*)"**, 2001-2004;
- Project of Ministry of Science and Higher Education (2PO6A 02329), **"The dependence between expression of the genes encoding zinc finger protein with B-box domains, cytosolic cyclophilin or cystein protease and tolerance of *Solanum* species to low temperature"**, 2005-2008;

- Project of Ministry of Science and Higher Education ([PBZ/MNiSW-2/3/2006](#)), "**The role of genes encoding dehydrin protein DHN24, lipid transfer protein (SsLTP1) and the protein with B-box domains (SsB-box) in acclimation of Solanum species to low temperature**", 2007-2010;