

## **dr Danuta Babula-Skowrońska**

**Plant Physiology Team**

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### **ACADEMIC AND RESEARCH CAREER**

University of Adam Mickiewicz in Poznan, Faculty of Biology, Master of Science, 1996

Institute of Plant Genetics, Polish Academy of Sciences in Poznan, Ph.D., 2002

### **RESEARCH INTERESTS**

Understanding the molecular mechanisms controlling the plasticity of stress response in polyploid species such as oilseed rape (*Brassica napus* var. *oleifera* L.)

The study of protein interaction networks associated with the induction of ABI1 protein phosphatases in the *Brassica* species

### **MAJOR RESEARCH PROJECTS**

Ministry of Science and Higher Education grants, Project no: N N303 568339. Functioning of the duplicated gene copies in paleopoliploids: contribution of the ABI1 gene homologues in the ABA signaling pathway in oilseed rape (*Brassica napus* var. *oleifera* L.). 2010-2013, PI

National Science Centre Poland, Project no: 2016/23/B/N29/02175. Response plasticity to environmental stresses in poliploids: exploring of the ABI1/HB6 regulon under salt and drought stresses in oilseed rape (*Brassica napus* L.). 2017-2021, PI

### **MAJOR PAPERS (max. 5 papers)**

Ludwików A., Babula-Skowrońska D., Szczepaniak M., Belter N., Dominiak E., Sadowski J. (2013). Expression profiles and genomic organisation of group A protein phosphatase 2C genes in *Brassica oleracea*. *Ann Appl Biol* 163: 124-134

Babula-Skowrońska D., Ludwików A., Cieśla A., Olejnik A., Cegielska-Taras T., Bartkowiak-Broda I., Sadowski J. (2015). Involvement of genes encoding *ABI1* protein phosphatases in the response of *Brassica napus* L. to drought stress. *Plant Mol Biol* 88: 445-457

Jakubowicz M, Nowak W, Gałgański Ł, Babula-Skowrońska D, Kubiak P. (2020). Expression profiling of the genes encoding ABA route components and the ACC oxidase isozymes in the senescing leaves of *Populus tremula*. *J. Plant Physiol.* 248: 153143.

Żyła N., Fidler J., Babula-Skowrońska D. (2021) Economic and Academic Importance of *Brassica oleracea*. In: Liu S., Snowdon R., Kole C. (eds) *The Brassica oleracea Genome*. Compendium of Plant Genomes. Springer, Cham., pp. 1-6.

Babula-Skowrońska D. (2021). Functional divergence of *Brassica napus* *BnaABI1* paralogs in the structurally conserved PP2CA gene subfamily of Brassicaceae. *Genomics* 113: 3185-3197.