

Małgorzata Czernicka, PhD



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Consultation hours: -

Research interest:

- advanced bioinformatic analyzes in the field of transcriptomics (NGS data), genomics and phylogenetics, methods of DNA, RNA protein analysis,
- multilevel research of plant respond to abiotic stresses,
- plant breeding methods, obtaining interspecific hybrids

Research experience:

Visiting Scholar:

- Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Bioinformatics and Information Technology Group, postdoctoral DAAD fellowship „Modern Applications of Biotechnology” (1 year),
- Centre de Recherche Public – Gabriel Lippmann, Luxemburg, Scholar: “Plant Low Temperature Stress: Principles, Concepts and Practical Approaches” (2 weeks)
- Vienna Graduate School of Population Genetics, Scholar of European Science Foundation (ESF) (2 weeks)
- Clause Tzier, GNIS-French Association for Seeds and Seedlings, Pépinières Demol, France(2 weeks)
- Internship in Life Science company – Selvita S.A. in Department of Bioinformatics and Cheminformatics under the „Knowledge, practice, cooperation – the key to success in business” run by the Malopolska Regional Development Agency (6 months)
- Adam Mickiewicz University in Poznań, Faculty of Biology, Department of Integrative Genomics (1 month) and Department of Gene Expression (2 weeks)

DSc, (Habilitation)

PhD, 2008, Speciality in Genetics and Plant Biotechnology

Dissertation title: Characteristics of interspecific *Rhododendron* hybrids by using molecular markers and cytological methods

Professional profiles:

ORCID: <http://orcid.org/0000-0001-5768-5758>

Research Gate: https://www.researchgate.net/profile/Matgorzata_Czernicka

Google Scholar: <https://scholar.google.pl/citations?user=Bo4t8pAAAAAJ&hl=pl>

List of publications:

Smoleń S., Kowalska I., Halka M., Ledwożyw-Smoleń I., Grzanka M., Skoczylas Ł., Czernicka M., Pitala J. 2020. Selected aspects of iodate and iodosalicylate metabolism in lettuce including the activity of vanadium dependent haloperoxidases as affected by exogenous vanadium. *Agronomy* 2020, 10, 1: 1-21. (IF=2,259)

Halka M., Smoleń S., Czernicka M., Klimek-Chodacka M., Pitala J., Tutaj K. 2019. Iodine biofortification through expression of HMT, SAMT and S3H genes in *Solanum lycopersicum* L. *Plant Physiology and Biochemistry*, 144, 35-48. (IF=3,404)

Smoleń S., Kowalska I., Czernicka M., Halka M., Kęska K., Sady W. 2016. Iodine and Selenium Biofortification with Additional Application of Salicylic Acid Affects Yield, Selected Molecular Parameters and Chemical Composition of Lettuce Plants (*Lactuca sativa* L. var. *capitata*). *Frontiers in Plant Science* 7: 1553. (IF=4,298)

Kunze G., Gaillardin C., Czernicka M., Durrens P., Martin T., Böer E., Gabaldón T., Cruz J.A, et al. 2014. The complete genome of *Blastobotrys (Arxula) adenivorans* LS3 - a yeast of biotechnological interest. *Biotechnology for Biofuels* 7(66). (IF= 6,22)

Czernicka M., Pławiak J., Muras P. 2014. Genetic diversity of F1 and F2 interspecific hybrids between dwarf birch (*Betula nana* L.) and Himalayan birch (*B. utilis* var. *jacquemontii* (Spach) Winkl. 'Doorenbos') using RAPD-PCR markers and ploidy analysis. *Acta Biochim. Pol.* 62 (2): 195-199. (IF=1,39)