

## dr Piotr Ogrodowicz

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#### ACADEMIC CAREER

(30.09.2015) Ph.D. Institute of Plant Genetics PAS, Poznan, Agricultural Sciences

(07.2009) M.Sc. University of Life Sciences in Poznan, Department of Animal Physiology and Biochemistry, Biology

(07.2007) B.Sc. University of Life Sciences in Poznan, Department of Animal Physiology and Biochemistry, Biology

#### RESEARCH CAREER

(2018-) Institute of Plant Genetics of the Polish Academy of Science, Assistant professor

(2015-2018) Institute of Plant Genetics of the Polish Academy of Science, Postdoctoral Fellow

2010-2014) Institute of Plant Genetics of the Polish Academy of Science, Research Associate

#### MAJOR RESEARCH PROJECTS

- European Plant Phenotyping Network 2020 (ID 206) “The architecture and development of the roots system in barley plants grown under drought conditions in relation to flowering acceleration “; head of the project.
- National Science Centre, Poland, project SONATA 12 no. 2016/23/D/NZ9/00042 “HvGAMYB transcription factor in flowering time regulation and its association with photoperiod response under drought conditions in spring barley (*Hordeum vulgare* L.); head of the project.
- National Science Centre, Poland, project OPUS 21 no. 2021/41/B/NZ9/02373 "Dynamic phenological changes in epidermal structures of spring barley (*Hordeum vulgare* L.) in response to combination of biotic and abiotic stresses"; head of the project.
- National Science Centre in Poland, project OPUS 12, 2016/23/B/NZ9/03548, (2017-2021) “Explanation of the hormone crosstalk and its role in shaping the plant architecture in barley (*Hordeum vulgare* L.)”; co-investigator.
- National Science Centre in Poland, OPUS 18, 2019/35/B/NZ9/00208, (2020-2023) “Melatonin as a pivotal mediator for shaping root architecture and drought adaptation via modulation of phytohormones crosstalk in barley (*Hordeum vulgare* L.)”; co-investigator.
- Ministry of Agriculture and Rural Development, Regulation of the Minister of Agriculture and Rural Development of November 10, 2020 Task 14, (2021-2025) “Association studies and molecular determinants of spring barley resistance to environmental stresses”; co-investigator.

#### RESEARCH VISITS

- National Plant Phenomics Center, Institute of Biological, Environmental and Rural Sciences at Aberystwyth University, United Kingdom (2019).
- The Plant Phenotyping Platform for Plant and Microorganism Interaction (4PMI) - INRA, Dijon, France (2018).
- The Leibniz-Institute of Plant Genetics and Crop Plant Research (IPK), Department of Molecular Genetics, Gatersleben, Germany (2014).

#### PUBLICATION

**Ogrodowicz P.**, Kuczyńska A., Mikołajczak K., Adamski T., Surma M., Krajewski P., Ćwiek-Kupczyńska H., Kempa M., Rokicki M., Jasińska D. (2020). „Mapping of quantitative trait loci for traits linked to fusarium head blight in barley”. PLoS ONE. 4;15(2): DOI: 10.1371/journal.pone.022237.

Mikołajczak K, **Ogrodowicz P.**, Ćwiek-Kupczyńska H, Weigelt-Fischer K, Mothukuri SR, Junker A, Altmann J, Krystkowiak K, Adamski T, Surma M, Kuczyńska A and Krajewski P (2020) Image Phenotyping of Spring Barley (*Hordeum vulgare* L.) RIL Population Under Drought: Selection of Traits and Biological Interpretation. *Frontiers in Plant Science*. 11:743. doi: 10.3389/fpls.2020.00743.

**Ogrodowicz P.**, Mikołajczak K., Kempa M., Mokrzycka M., Krajewski P., Kuczyńska A. (2023). “Genome-wide association study of agronomical and root-related traits in spring barley collection grown under field conditions” *Frontiers in Plant Science*. 14: 1077631. DOI: 10.3389/fpls.2023.1077631.

**Ogrodowicz P.**, Kuczyńska A., Krajewski P., Kempa M. (2023). „The effects of heading time on yield performance and HvGAMYB expression in spring barley subjected to drought”. *Journal of Applied Genetics*. 64(2): 289-302. DOI: 10.1007/s13353-023-00755-x.

**Ogrodowicz P.**, Wojciechowicz M.K., Kuczyńska A., Krajewski P., Kempa, M. (2023). „The Effects of Growth Modification on Pollen Development in Spring Barley (*Hordeum vulgare* L.) Genotypes with Contrasting Drought Tolerance”. *Cells*. 12(12): 1656. DOI: 10.3390/cells12121656. (IF2023= 7.666; liczba punktów MEiN=140)