

## Lista publikacji projektu POLAPGEN-BD

2016

Piasecka A., Sawikowska A., Kuczyńska A., Ogrodowicz P., Mikołajczak K., Krystkowiak K., Gudyś K., Guzy-Wróbelska J., Krajewski P., Kachlicki P. (2016). Drought related secondary metabolites of barley (*Hordeum vulgare* L.) leaves and their mQTLs. [The Plant Journal DOI: 10.1111/tpj.13430](https://doi.org/10.1111/tpj.13430).

Kiełbowicz-Matuk A., Banachowicz E., Turska-Tarska A., Rey P., Rorat T. (2016). Expression and characterization of a barley phosphatidylinositol transfer protein structurally homologous to the yeast Sec14p protein. [Plant Science 246: 98-110](https://doi.org/10.1016/j.plsci.2016.08.010).

Chmielewska K., Rodziewicz P., Swarczewicz B., Sawikowska A., Krajewski P., Marczak Ł., Ciesiołka D., Kuczyńska A., Mikołajczak K., Ogrodowicz P., Krystkowiak K., Surma M., Adamski T., Bednarek P., Stobiecki M. (2016). Analysis of drought-induced proteomic and metabolomic changes in barley (*Hordeum vulgare* L.) leaves and roots unravels some aspects of biochemical mechanisms involved in drought tolerance. [Frontiers in Plant Science 7:1108](https://doi.org/10.3389/fpls.2016.01108).

Fedorowicz-Strońska O., Koczyk G., Kaczmarek M., Krajewski P., Sadowski J. (2016). Genome-wide identification, characterisation and expression profiles of calcium-dependent protein kinase genes in barley (*Hordeum vulgare* L.). [Journal of Applied Genetics DOI: 10.1007/s13353-016-0357-2](https://doi.org/10.1007/s13353-016-0357-2).

Mikołajczak K., Kuczyńska A., Krajewski P., Sawikowska A., Surma M., Ogrodowicz P., Adamski T., Krystkowiak K., Górny A.G., Kempa M., Szarejko I., Guzy-Wróbelska J., Gudyś K. (2016). Quantitative trait loci for plant height in Maresi × CamB barley population and their associations with yield-related traits under different water regimes. [Journal of Applied Genetics DOI: 10.1007/s13353-016-0358-1](https://doi.org/10.1007/s13353-016-0358-1).

Mikołajczak K., Ogrodowicz P., Gudyś K., Krystkowiak K., Sawikowska A., Frohberg W., Górny A., Kędziora A., Jankowiak J., Józefczyk D., Karg G., Andrusiak J., Krajewski P., Szarejko I., Surma M., Adamski T., Guzy-Wróbelska J., Kuczyńska A. (2016). Quantitative trait loci for yield and yield-related traits in spring barley populations derived from crosses between European and Syrian cultivars. [PlosOne 11 \(5\): e0155938](https://doi.org/10.1371/journal.pone.0155938).

Ogrodowicz P., Adamski T., Mikołajczak K., Kuczyńska A., Surma M., Krajewski P., Sawikowska A., Górny A.G., Gudyś K., Szarejko I., Guzy-Wróbelska J., Krystkowiak K. (2016). QTLs for earliness and yield-forming traits in the Lubuski × CamB barley RIL population under various water regimes. [Journal of Applied Genetics DOI: 10.1007/s13353-016-0363-4](https://doi.org/10.1007/s13353-016-0363-4).

2015

Piasecka A., Sawikowska A., Krajewski P., Kachlicki P. (2015) Combined mass spectrometric and chromatographic methods for in-depth analysis of phenolic secondary metabolites in barley leaves. [Journal of Mass Spectrometry 50: 513-532](https://doi.org/10.1007/s13353-015-0322-4).

Zielezinski A, Dolata J, Alaba S, Kruszka K, Pacak A, Swida-Barteczka A, Knop K, Stepien A, Bielewicz D, Pietrykowska H, Sierocka I, Sobkowiak L, Lakomiak A, Jarmolowski A, Szweykowska-Kulinska Z,

Karłowski WM. (2015) mirEX 2.0 - an integrated environment for expression profiling of plant microRNAs. [BMC Plant Biology 16: 15-144.](#)

2014

P. Krajewski, M. Surma (eds.). (2014) [Methodology of system approach to study drought tolerance in barley.](#) Institute of Plant Genetics PAS, Dissertations and Monographs. Institute of Plant Genetics PAS, Poznań.

Filek M., Łabanowska M., Kościelniak J., Biesaga-Kościelniak J., Kurdziel M., Szarejko I., Hartikainen H., (2014) Characterization of Barley Leaf Tolerance to Drought Stress by Chlorophyll Fluorescence and Electron Paramagnetic Resonance Studies. [J.Agr.Crop Sci. 201: 228-240.](#)

Rodziewicz P., Swarczewicz B., Chmielewska K., Wojakowska A., Stobiecki M. (2014) Influence of abiotic stresses on plant proteome and metabolome changes. [Acta Physiologiae Plantarum, 36: 1-19.](#)

Kruszka K., Pacak A., Swida-Barteczka A., Stefaniak AK., Kaja E., Sierocka I., Karłowski W., Jarmolowski A., Szweykowska-Kulinska Z. (2014) Developmentally regulated expression and complex processing of barley pri-microRNAs. [BMC Genomics 14: 34.](#)

Kruszka K., Pacak A., Swida-Barteczka A., Nuc P., Alaba S., Wroblewska Z., Karłowski W., Jarmolowski A., Szweykowska-Kulinska Z. (2014) Transcriptionally and post-transcriptionally regulated microRNAs in heat stress response in barley. [Journal of Experimental Botany, 65\(20\): 6123–6135.](#)

De Mezer M., Turska-Taraska A., Kaczmarek Z., Glowacka K., Swarczewicz B., Rorat T. (2014) Differential physiological and molecular response of barley genotypes to water deficit. [Plant Physiology and Biochemistry. 80: 234-248.](#)

2013

Daszkowska-Golec A., Szarejko I. (2013) Open or close the gate – stomata action under the control of phytohormones in drought stress conditions. [Frontiers in Plant Science 4: 138.](#)

Daszkowska-Golec A., Szarejko I. (2013) [The Molecular Basis of ABA-Mediated Plant Response to Drought.](#) In: Vahdati K. and Leslie C. (eds), Abiotic Stress - Plant Responses and Applications in Agriculture. Rijeka, Shanghai, InTech, pp. 104-133.

M. Lukowska , G. Jozefaciuk, (2013) Unknown Mechanism of Plants Response to Drought: Low Soil Moisture and Osmotic Stresses Induce Severe Decrease in CEC and Increase in Acidity of Barley Roots. [Journal of Agricultural Science 5 \(10\).](#)

Bandurska H., Niedziela J., Chadzinikolau T. (2013) Separate and combined responses to water deficit and UV-B radiation. [Plant Science 213: 98-105.](#)

2012

Kruszka K., Pieczynski M., Windels D., Dawid Bielewicz D., Jarmolowski A., Szweykowska-Kulinska Z., Vazquez F. (2012) [Role of microRNAs and other sRNAs of plants in their changing environments.](#) Journal of Plant Physiology 169: 1664-1672.

Sobkowiak L., Bielewicz D., Malecka E.M., Jakobsen I., Albrechtsen M., Szweykowska-Kulinska Z., Pacak A. (2012) The role of the P1BS element containing promoter-driven genes in Pi transport and homeostasis in plants. [Frontiers in Plant Science 3: 58.](#)

Stalmach K., Borek M., Śniegowska K. (2012) Fizjologiczne aspekty odpowiedzi roślin jęczmienia jarego (*Hordeum vulgare* L.) na stres suszy. [Episteme 14, 395-408.](#)