# Dr Agata Daszkowska-Golec

## Institute of Biology, Biotechnology and Environmental Protection, Faculty of Natural Sciences, University of Silesia in Katowice


### ACADEMIC AND RESEARCH CAREER

***Academic career:***

**2019-now** Deputy Dean for Promotion and Development, Faculty of Natural Sciences, University of Silesia in Katowice

**2019-now** Associate Professor, Faculty of Natural Sciences, University of Silesia in Katowice

**2013-2019** Assistant Professor, Faculty of Biology and Environmental Protection, University of Silesia in Katowice

**2006-2013** Research Assistant, Faculty of Biology and Environmental Protection, University of Silesia in Katowice

***Research career:***

**2006-2011** Ph.D. Plant Genetics, University of Silesia in Katowice, Poland
**2004-2006** MSc Biotechnology, University of Silesia in Katowice, Poland

**2001-2004** BSc Biology, University of Silesia in Katowice, Poland

***Awards and distinctions in research career:***

**2020:** Intelligent Development Award in the Scientist of the Future category for the implementation of research under the SONATA 10 and BARISTA projects

**2018-2020** Scholarship from the Minister of Science and Higher Education for outstanding young scientists

**2019, 2017, 2013, 2012** awarded four prizes by the Rector of the University of Silesia for scientific and research activities

### MAJOR RESEARCH PROJECTS

(QUEST) Quest for climate-smart barley - the multilayered genomic study of CBC function in ABA signaling (SONATA BIS, NCN); Duration: 2021-2026; ADG is a leader, budget: 3 109 640 PLN

'BARISTA: Advanced Tools For Breeding Barley For Intensive And Sustainable Agriculture Under Climate Change Scenarios', ERANET COFUND SusCrop funded under the frame of HORIZONE 2020 (No 771134); Duration: 2019-2022; ADG is a Leader of Polish Team; Budget: 200 000 euro (for ADG's Team); (whole BARISTA budget: 2 219 000 euro)

BEETHOVEN-LIFE1: Investigation of the role of strigolactones in response to drought using barley mutant collection' Duration: 2019-2022; ADG is the Investigator; Budget: 1 021 103 PLN

Genomika translacyjna w identyfikacji mechanizmu działania signalosomu CBP20 w odpowiedzi Arabidopsis i jęczmienia na stres suszy (SONATA, NCN); Duration: 2016-2020; ADG was a Leader; Budget: 509 540 zł

### RESEARCH VISITS

2008 – 2-week-long scientific workshops 'Regional Training Course on Screening for Drought Tolerance for Eastern European Countries', ICARDA (International Center for Agricultural Research in the Dry Areas), Aleppo, Syria organized by IAEA in Vienna, Austria
2009 – 3-month-long fellowship in INRA/CNRS – URGV (Unite de Recherche en Génomique Végétale) w Evry (France) Fellowship realized in a framework of the UPGOW project under European Social Fund (Project 54/475 'Methods of generation transgenic plants and their application in genes identification and functional genomics')
2017 – 1-week-long scientific workshop "1st Berlin Summer School – NGS Data Analysis Introduction to NGS RNA-Seq Data Analysis DNA Variant Calling" ecSeq Bioinformatics Berlin, Germany
2020 – 1-week-long scientific visit in The Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Gatersleben, Germany

### PUBLICATION (5 MAJOR PUBLICATIONS, LAST 5 YEARS)


1. DASZKOWSKA-GOLEC A., SKUBACZ A, MARZEC M, SLOTA M, KUROWSKA M, GAJECKA M, GAJEWSKA P, PŁOCINICZAK T, SITKO K, PACAK A, SZWEYKOWSKAKULINSKA Z and SZAREJKO I (2017) Mutation in HvCBP20 (Cap Binding Protein 20) Adapts Barley to Drought Stress at Phenotypic and Transcriptomic Levels. *Front. Plant Sci.* 8:942.

2. DASZKOWSKA-GOLEC A. (2018) Emerging Roles of the Nuclear Cap- Binding Complex in Abiotic Stress Responses. *Plant Physiol.* 176 (1) 242- 253
3. DASZKOWSKA-GOLEC A., KARCZ J., PLOCINICZAK T., SITKO K., SZAREJKO I. (2020). Cuticular waxes - a shield of barley mutant in CBP20 (Cap-Binding Protein 20) gene when struggling with drought stress. *Plant Science*, doi: 10.1016/j.plantsci.2020.110593
4. DASZKOWSKA-GOLEC A. (2020). Degrade or Silence? – RNA Turnover Takes Control of Epicuticular Wax Synthesis, *Trends in Plant Science* doi.org/10.1016/j.tplants.2020.06.009
5. DASZKOWSKA-GOLEC A., SKUBACZ A., SITKO K., SŁOTA M., KUROWSKA M., SZAREJKO I. (2018) Mutation in barley ERA1 (Enhanced Response to ABA1) gene confers better photosynthesis efficiency in response to drought as revealed by transcriptomic and physiological analysis. *Environmental and Experimental Botany*, 148: 12-26