

Curriculum vitae



Particulars:

Name: Gabriella SZALAI
Scientific degree: DSc
Date and Place of Birth: January 30, 1969, Zalaegerszeg

Education:

2011 DSc degree, Hungarian Academy of Sciences, Budapest
Title of DSc thesis: Role of salicylic acid in the stress tolerance of crop plants
1998 PhD degree, Eötvös Loránd University, Budapest
Title of PhD thesis: Effects of low temperature and illumination on the metabolism in the early developmental stage of maize.
1987-1993 József Attila University, Szeged
Subject: molecular biology and biotechnology
Title of work for degree: Development of new *in vitro* culture medium for the tissue culture of monocotyledons (Cereal Research Institute, Szeged)

Languages:

English and German

Courses:

Desert Agrobiography International Course (The Jacob Blaustein Institute for Desert Research, Sede Boqer, Israel; 1998-99)

Study trips:

1998 Ecole Normale Supérieure, Photoregulation et Dynamique des Membranes Vegetales, URA CNRS, Paris. Project leader: Prof. Jean-Paul Dubaqq (three months)
2001 The Jacob Blaustein Institute for Desert Research, Sede Boqer, Israel. Project leader: Prof. Avi Golan-Goldhirsh (seven months)
2008 Volcani Center, Bet Degan, Israel, Project leader: Dr Oz Barazani (three months)

Grants:

1998-2000 OTKA F026236 Effect of salicylic acid during low temperature stress in maize
2002-2005 OTKA K37195 Investigation of protective mechanisms controlled by salicylic acid in cereals
2007-2011 NKTH/OTKA K68158 Salicylic acid metabolism and the effects of exogenous salicylic acid on the metabolic processes in crop plants under stress conditions
2008-2012 OTKA K75584 Investigation of signal transduction processes during stress adaptation in cereals

- 2009-2010 Spanish-Hungarian Bilateral Project: Photosynthetic studies related to the protective action of salicylic acid against biotic and abiotic stress (Spanish project leader: Prof. Matilde Barón Ayala, Estacion Experimental del Zaidin Department of Biochemistry, Cell and Molecular Biology of Plants, Granada)
- 2012-2015 OTKA K101367 Signal transduction pathways from exogenous to endogenous salicylic acid in wheat and model plants under stress conditions
- 2013-2016 OTKA K104963 Role of light in the development of stress tolerance in cereals
- 2013-2015 Bulgarian-Hungarian Bilateral Project
- 2017-2021 NKFIH K124430 Investigation of salicylic acid-related stress acclimation processes in crop plants
- 2019-2021 Czech-Hungarian Bilateral Project
- 2019-2020 Chinese-Hungarian TÉT „Physiological and metabolic characterization of shoots and roots of cereal plants under water regimes projecting adaptive mechanism to water stresses”
- 2022-2023 Vietnamese-Hungarian Bilateral Project

Place of work:

Department of Plant Physiology, Agricultural Institute, Centre for Agricultural Research, Hungarian Academy of Sciences, H-2462, Martonvásár, POB 19.

- 2011- Scientific Consultant
- 1999-2011 Senior Research Associate
- 1998-1999 Research Associate
- 1993-1998 Assistant Research Associate

Research area:

- Plant stress physiology.
- the role of salicylic acid during abiotic stresses
 - HPLC analysis of salicylic acid and its precursors, glutathione and its precursors, polyamines, carbohydrates, etc.
 - Cd stress, phytochelatin synthase activity

Martonvásár, 29th March 2023



/Gabriella Szalai/