

Božena Šocik

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

- 2018 – 2024 Nature research centre, Plants physiology laboratory, Ecology and environment (N 012), PhD student.
Topic: „Effect of enzymatic compositions of probiotics on growth, antioxidant activity and productivity of root crops“, supervisor – dr. S. Jurkonienė.
Research field: plants physiology; ecology; probiotics.
- 2015 – 2017 University of Warsaw, Faculty of biology / Masters degree.
Topic: “Attempt to mute gene of kinase AtCDPK11 of *Arabidopsis thaliana* using an *Agrobacterium tumefaciens* bacteria for agroinfiltration that was transformed using CRISPR/Cas9 system to insert the vector with the plasmid AtU6-AtCPK11 ”.
Research field: bacteriology; genetics of plants; gene modifications, CRISPR/Cas9.
- 2011 – 2015 Vilnius University, Molecular biology / Bachelors degree.
Topic: “Virulence Factors of *Gardnerella vaginalis*: Formation of Biofilms”.
Darbas atliktas NVSPL, Mikrobiologijos laboratorijoje.
Research field: microbiology; biotechnology.

PROFESSIONAL EXPERIENCE

- 2018 10 – iki dabar **phD student**
Plants physiology laboratory, Nature Research Centre
- 2017 06 – 2017 09 **Internship**
NAOS group, MedILS, Croatia
- 2016 07 – 2016 09 **Internship**
BIOK laboratorija, Laboratory of new products
- 2014 05 – 2015 09 **Laboratory technician**
NVSPL, Bacteriology subsection
- 2014 02 – 2014 05 **Internshio**
NVSPL, Bacteriology subsection

RESEARCH INTERESTS

Accumulation of low molecular weight antioxidants - anthocyanins, phenolic compounds, vitamins A, C, E, carotenoids (β -carotene), and some amino acids in plants under the influence of various probiotic compositions is studied. Methodology used: thin-layer chromatography, spectrophotometry.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Gavelienė V., Šocik B., Jankovska-Bortkevič E., Jurkonienė S., Plant Microbial Biostimulants as a Promising Tool to Enhance the Productivity and Quality of Carrot Root Crops. *Microorganisms*. 2021; **9** (9):1850.
2. Mockevičiūtė R., Jurkonienė S., Gavelienė V., Jankovska-Bortkevič E., Šocik B., Armalytė G., Budrys R. Effects Induced by the Agricultural Application of Probiotics on Antioxidant Potential of Strawberries. *Plants*. 2022; 11 (6):831.

Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database:

INTERNSHIP AND TRAINING

2019 m. 08 / 09 “Summer School Greenhouse Horticulture”, Stažuotė Olandijoje, Vageningeno universitete

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Šocik B.**, Jurkonienė S., Gavelienė V., Jankovska-Bortkevič E. Effect of probiotic compositions on growth, antioxidant activity and productivity of beetroot. XII International Agriculture Symposium "AGROSYM 2021". 7-10 October 2021, Bosnia and Herzegovina.
2. Šocik B., Jurkonienė S., Gavelienė V. (2020). Effect of Probiotic Compositions on Growth, Antioxidant Activity and Productivity of Root Crops. *The COINS Abstract Book*. p. 60-61.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Odetā Dauskurdaitė	Bachelors thesis: EFFECT OF ENZYMATIC COMPOSITION OF PROBIOTICS ON ACCUMULATION OF SMALL MOLECULAR WEIGHT ANTIOXIDANTS, MONOSACCHARIDES, PHENOLIC COMPOUNDS IN CARROTS (<i>Daucus carota subsp. sativus</i>) VGTU, Bioinžinerijos studijų programa, Biotechnologijos studijų kryptis	2018 – 2019
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Vita Bachelors thesis: EFFECT OF ENZYMATIC COMPOSITION 2020 - 2021
Jankauskaitė OF PROBIOTICS ON MORPHOMETRIC PARAMETERS,
ANTIOXIDANTS AND PHENOLIC COMPOUNDS IN
BEETROOTS (*Beta vulgaris*)
VGTU, Bioinžinerijos studijų programa, Biotechnologijos studijų
kryptis

OTHERS
