

Rima Mockevičiūtė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2010 Doctoral degree of biomedical sciences botany (04B) (Nature Research Center, Institute of Botany and Vilnius University)
Dissertation topic: "Indole-3-acetic acid-protein complexes in chloroplasts and mitochondria", supervisor - Habil. Dr. N. Anisimovene
1996 – 1997 Master degree of Natural Sciences, Faculty of Natural Sciences, Vilnius Pedagogical University
1990 – 1996 Biology and Chemistry speciality, Faculty of Natural Sciences, Vilnius Pedagogical University

PROFESSIONAL EXPERIENCE

2020 09 – present **Researcher**
Plant Physiology Laboratory, Nature Research Centre
2020 02 – 2020 09 **Biologist**
Plant Physiology Laboratory, Nature Research Centre
2004 09 – 2020 01 **Junior researcher**
Plant Physiology Laboratory, Institute of Botany (since 01.01.2010 Nature Research Center)
2000 09 – 2004 09 **PhD student**
Plant Physiology Laboratory, Institute of Botany
1997 06 – 2000 09 **Research assistant**
Plant Physiology Laboratory, Institute of Botany

RESEARCH INTERESTS

Field of research: studies of the receptive functions of plant cell organoid membranes, evaluation of the main characteristics of the formed complexes.

Assessment of the participation of plant growth-regulating substances in the response to various environmental factors based on physiological-biochemical and productivity parameters

PUBLICATIONS

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

1. Jankovska-Bortkevic E., Gaveliene V., Koryzniene D., Jankauskiene J., **Mockeviciute R.**, Jurkoniene S. 2019. Response of winter oilseed rape to imitated temperature fluctuations in autumn-winter period. – *Environmental and Experimental Botany*, 166: 103801. DOI 10.1016/j.envexpbot.2019.103801.
2. Jankovska-Bortkevič E., Gavelienė V., Šveikauskas V., **Mockevičiūtė R.**, Jankauskienė J., Todorova D., Sergiev I., Jurkonienė S. 2020. Foliar application of Polyamines Modulates

- Winter Oilseed Rape Response to Increasing Cold. *Plants*, 9: 179. DOI 10.3390/plants9020179.
3. Sergiev I., Todorova D., Shopova E., Brankova L., Jankauskienė J., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.** 2020. Assessment of synthetic auxin type compounds as potential modulators of herbicide action in *Pisum sativum* L. *Biologia*, 75 (11): 1845-1853. DOI 10.2478/s11756-020-00557-0.
 4. Jurkonienė S., Jankauskienė J., **Mockevičiūtė R.**, Gavelienė V., Jankovska-Bortkevič E., Sergiev I., Todorova D., Anisimovienė N. 2021. Elevated Temperature Induced Adaptive Responses of Two Lupine Species at Early Seedling Phase. *Plants*, 10: 1091. DOI 10.3390/plants10061091.
 5. **Mockevičiūtė R.**, Jurkonienė S., Gavelienė V., Jankovska-Bortkevič E., Šocik B., Armalytė G., Budrys R. 2022. Effects Induced by the Agricultural Application of Probiotics on Antioxidant Potential of Strawberries. *Plants* (Basel), 11 (6): 831. DOI: 10.3390/plants11060831.
 6. Jankauskienė J., **Mockevičiūtė R.**, Gavelienė V., Jurkonienė S., Anisimovienė N. 2022. The Application of Auxin-like Compounds Promotes Cold Acclimation in the Oilseed Rape Plant. *Life* (Basel), 12(8): 1283. DOI: 10.3390/life12081283.

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index):

1. Jurkonienė S., **Mockevičiūtė R.**, Jankauskienė J., Jankovska-Bortkevič E., Armalytė G., Gavelienė V. 2021. Application of commercial Plant probiotics improves berry yield and quality of field-grown Blackcurrant. *ACS Agric. Sci. Technol.* 1: 615-622. DOI:10.1021/acsagritech.1c00115.

Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.):

1. Todorova D., Sergiev I., Shopova E., Brankova L., Jankauskienė J., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.** 2021. Physiological responses of Pea plants to treatment with synthetic auxins and auxin-type herbicide. *Botanica*. 125-133. DOI: 10.35513/Botlit.2021.2.2.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

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| 2016-2019 | International research project under the LMA cooperation agreement with the Bulgarian Academy of Sciences "Plant growth regulators - means increasing plant tolerance to temperature stress". Project coordinators: dr. J. Jankauskienė (Lithuania) and dr. D. Todorova (Bulgaria). |
| 2014-2020 | The area of activity of the Lithuanian rural development 2014-2020 program measure "Cooperation" is "Support for the creation of EIP activity groups and the development of their activities". "Improving soil structure and quality (restoration) using microorganisms. Reducing the emission of nitrogen compounds while preserving plant productivity using new generation micronutrients." The scientific partners of the Chamber of Agriculture in the project are the State Scientific Research Institute Nature Research Center. |
| 2019-2021 | International research project under the LMA cooperation agreement with the Bulgarian Academy of Sciences "Evaluation of the ability of synthetic auxin-type compounds to neutralize herbicide-induced stress in agricultural plants". 2019-2021. Project coordinators: dr. J. Jankauskienė (Lithuania) and dr. D. Todorova |

(Bulgaria).

2022-2023 LMT International Cooperation Lithuania-Ukraine Program project "Investigation of the effect of proline and γ -amino butyric acid on plant resistance to water deficit", 2022-2023, supervisor dr. S. Jurkonienė.

INTERNSHIP AND TRAINING

2017 11 "Modern Thin Layer Chromatography (TLC / HPTLC)" Muttentz (Switzerland) at Camag

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Jankauskienė J., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.**, Jodinskienė J., Todorova D. 2017. Response of kidney bean and pea plants to low temperature stress under polyamines treatment and its role to productivity. "Global Conference on Plant Science and Molecular Biology".
2. Jankovska-Bortkevič E., **Mockevičiūtė R.**, Jankauskienė J., Jurkonienė S., Gavelienė V. 2017. New approach of HPTLC for identification of auxins in frost resistant plants. International Symposium for High Performance Thin Layer Chromatography.
3. Jankovska-Bortkevič E., Koryznienė D., Jankauskienė J., **Mockevičiūtė R.**, Gavelienė V., Todorova D., Jurkonienė S. Effects of polyamines on cold stress resistance of common bean. 2nd International Conference on the Scientific Actualities and Innovations in Horticulture 2018 SAIH 2018 "Development and technology".
4. Jankovska-Bortkevič E., Koryznienė D., Jurkonienė S., Gavelienė V., Jankauskienė J., **Mockevičiūtė R.** 2018. The response of winter oilseed rape to putrescine and low temperature treatment, The 11th International "Plant Functioning Under Environmental Stress".
5. Koryznienė D., Jurkonienė S., Žalnierius T., Gavelienė V., Jankauskienė J., Jankovska-Bortkevič E., **Mockevičiūtė R.**, Bareikienė N. 2019. The effect of GA₃ treatment on the development of *Heracleum sosnowskyi* manden. seeds. International Scientific Conference "Kliment's days".
6. Jankauskienė J., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.**, Jankovska-Bortkevič E., Todorova D. 2019. The role of polyamines on IAA metabolism in legume plants under the field condition. International Scientific Conference "Kliment's days".
7. Jankovska-Bortkevič E., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.**, Jankauskienė J., Todorova D., Sergiev I., Viluckas V., Prakas P. 2021. Effect of exogenous putrescine on winter oilseed rape response to low temperature, XII International Scientific Agriculture Symposium „Agrosym 2021“.
8. Jankauskienė J., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.**, Jankovska-Bortkevič E., Todorova D., Sergiev I. 2021. Exogenously applied putrescine effects on endogenous hormone levels in kidney bean and pea under low temperature stress conditions, XII International Scientific Agriculture Symposium „Agrosym 2021“.
9. Jurkonienė S., Gavelienė S., **Mockevičiūtė R.**, Jankauskienė J., Jankovska-Bortkevič E., Šveikauskas V. 2021. Effects of probiotics on antioxidant potential of blackcurrant berries, XII International Scientific Agriculture Symposium „Agrosym 2021“.

10. **Mockevičiūtė R.**, Jurkonienė S., Gavelienė V., JankovskaBortkevič E., Jankauskienė J. 2022 Effect of microbial biostimulants on growth, antioxidant activity and productivity of fruits and vegetables. CEMEPE AND SECOTOX CONFERENCE 2022.
11. Jankauskienė J., Jurkonienė S., Gavelienė V., JankovskaBortkevič E., **Mockevičiūtė R.** 2022. Microbial biostimulant counteracts herbicide Galera negative effects on rapeseed growth CEMEPE AND SECOTOX CONFERENCE 2022.
12. Jankovska-Bortkevič E., Jurkonienė S., Gavelienė V., **Mockevičiūtė R.**, Šveikauskas V., Jankauskienė J., Todorova D., Prakas P. Effect of exogenous polyamines on winter wheat and oilseed rape cold stress response under field conditions, The 3rd International Conference on the Scientific Actualities and Innovations in Horticulture (SAIH2022).

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Mariam Zareyan Master's thesis topic: "Molecular and biochemical responses of wheat to drought by application of probiotics, proline, and calcium" (VU GMC, Molecular Biology Study Program) 2021 – 2022