

CURRICULUM VITAE

Personal information

Name: Mgr. Jaroslav Nisler, Ph.D. *et* Ph.D.

Address: V rovinách 40,
Praha 4, 140 00,
Czech Republic

Nationality: Czech

Date of birth: 4. 10. 1982



Contact address

Isotope Laboratory
Institute of Experimental Botany, The Czech Academy of Sciences
Václavská 1083
Praha 4, 142 20, Czech Republic

Tel: +420 241 062 485 (office),

Tel: +420 608 122 530 (mobil)

Email: jaroslav.nisler@gmail.com, nisler@ueb.cas.cz

Education

2001 - 2006 Faculty of Science, Palacký University in Olomouc, Czech Republic. Master's degree in Teaching of Biology and Chemistry for secondary schools. Diploma thesis: Biological activity of substituted anilinopurine MZ02-C1 (INCYDE).

2006 - 2010 PhD study in Botany in Laboratory of growth regulators, Institute of Experimental Botany AS CR & Palacký University in Olomouc, Czech Republic.
PhD. thesis: Development and biological characterization of cytokinin receptor antagonists.

29. 9. 2010: PhD. degree conferred in Botany at Palacký University in Olomouc

2015 - 2020: PhD. study in Organic chemistry at the Faculty of food and biochemical technology, University of chemistry and technology Prague.

PhD. thesis: Development of Cytokinin oxidase/dehydrogenase inhibitors.

25. 1. 2021: PhD. degree conferred in Organic chemistry at the University of chemistry and technology Prague.

Employment

2010 - 2021 Full-time position as a junior researcher in Laboratory of Growth Regulators, Institute of Experimental Botany, Academy of Science, CZ & Palacký University in Olomouc, CZ.

2011 - now Part-time position as a research assistant in the Centre of the Region Haná for Biotechnological and Agricultural Research (CRH).

2022 – now: Full-time position as a head of Isotope Laboratory, Institute of Experimental Botany, Czech Academy of Sciences, CZ.

Research interest

Design, synthesis, and biological activity of compounds that affect plant growth and development and that are suitable for use in agriculture and plant biotechnology. I am focused on cytokinins, inhibitors of cytokinin perception and degradation, and compounds with anti-senescence (anti-stress) properties.

International internship

Four-month professional internship in the Department of Biology at Wilfrid Laurier University, Waterloo, Ontario, Canada. Part of the project: Development and hormonal regulation of root symbiosis. This project resulted in a joint publication in *Physiol. Plant.* 145:341-359.

Projects and awards

2018 – 2019: Principal investigator in project GAMA provided by TA CR (Support of the process of commercialization of research and development at IEB, AS CR).

2020 – 2021: Principal investigator in project GAMA provided by TA CR (Support of the process of commercialization of research and development at IEB, AS CR).

2021: Awarded in Next Gen Fertilizer Challenges organized by U.S. Environmental Protection Agency a U.S. Department of Agriculture.

2022 – 2023: Awarded by grant of Czech Academy of Sciences – PPPLZ

Publications

The results of my original scientific work were published in 23 publications in impacted journals and in two chapters in a book. I am also the main author of 4 granted patents and co-author of one patent. Among the granted patents are those granted in the USA, Canada, and EU. My H-index is 10.

Prague 22. 7. 2022

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