

SERHII MYKHAILYK

BIOLOGIST

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SUMMARY

Diligent and dependable professional with a proven track record in teaching, scientific fieldwork, and expertise in plant genetics research. Adaptable under pressure, I efficiently complete tasks, collaborate seamlessly within teams, and remain committed to achieving goals through independent thinking. Consistency is a hallmark of my work, and my strong presentation and research skills complement my proactive "do-it" approach.

EXPERIENCE

2024 – present

POSTDOCTORAL RESEARCHER

Institute of Experimental Botany of the Czech Academy of Sciences, Olomouc, CZ

- Barley cytogenetics, interploidy crosses, heat stress response and genomic imprinting in plants

2019 – 2024

PHD IN PLANT BIOLOGY

University of Silesia in Katowice | Katowice, Poland

- Molecular biology, cytogenetics and molecular genetics experiments planning and implementation, publication writing, and conducting classes.

2015 – 2017

TEACHING ASSISTANT & LECTURER

National University of Kyiv–Mohyla Academy | Kyiv, Ukraine

- Preparing materials for classes, lecture preparation, evaluating students, preparing exams for students, and managing administrative work related to teaching. Supervising students' course papers and Bachelor diplomas
- Molecular Genetics, Genomics, Plant Anatomy (responsible for the lab and seminar sessions). Biotechnology (responsible for lectures and seminar sessions).

2015 – 2017

POSTGRADUATE FELLOW

National University of Kyiv–Mohyla Academy | Kyiv, Ukraine

- Pursuing research on the subject of plant genetics (genetics of common wheat);
- Preparation and carrying out of laboratory and field experiments connected with plant genetic research;
- Fieldwork: plant emasculation and hybridization techniques;
- PhD Thesis Proposal accomplishment.

EDUCATION

2011/2013

National University of Kyiv–Mohyla Academy | Kyiv, Ukraine

Faculty of Natural Sciences, Biology and Biodiversity. **Bachelor's** and **Master's** degrees.

2019 – 2024

University of Silesia in Katowice | Katowice, Poland

Institute of Biology, Biotechnology and Environmental Protection, Faculty of Natural Sciences. **PhD.**

INTERNSHIPS

03–07.2017

Erasmus programme

University of Silesia in Katowice, Katowice, Poland.

08–12.2018

Fellowships under the Polish National Commission for UNESCO

University of Silesia in Katowice, Katowice, Poland.

05–06.2022

PROM Programme (NAWA)

Institute of Biophysics of the Czech Academy of Sciences, Brno, Czech Republic.

05–06.2022

COST EPICATCH Short–Term Scientific Missions (STSMs)

Institute of Experimental Botany of the Czech Academy of Sciences, Olomouc, Czech Republic.

CONFERENCES

- 09.2016 **XI International Scientific Conference “Factors in Experimental Evolution of Organisms”**
Odesa, Ukraine
Oral presentation
- 04.2017 **13th International Wheat Genetics Symposium (IWGS)**
Tulln, Austria
Oral presentation
- 09.2021 **10th Conference of Polish Society of Experimental Plant Biologist (PSEPB)**
Katowice, Poland
Slide-show presentation
- 06.2022 **6th Polish Congress of Genetics**
Kraków, Poland
Poster presentation
- 09.2023 **Plant Chromosome Biology: Cytogenetics meeting**
Brno, Czech Republic
Poster + pitch presentation
- 11.2023 **Priority Research Areas (PRA) of the University of Silesia in Katowice**
Katowice, Poland
Oral presentation

AWARDS

- 2015–2016 **Yukchymenko Family annual stipend for the best PhD research project on Nature Science in National University of Kyiv–Mohyla Academy**
Kyiv, Ukraine
- 04.2017 **Travel grant by CIMMYT for the 13th International Wheat Genetics Symposium**
Tulln, Austria
- 09.2021 **Award for “Best poster presentation” at 10th Conference of PSEPB**
Katowice, Poland
- 07.2022 **First place “Golden Clover” for the best poster at 6th Polish Congress of Genetics**
Krakow, Poland

PUBLICATIONS

- Borowska-Zuchowska, N., Robaszkiewicz, E., **Mykhailiyk, S.**, Wartini, J., Pinski, A., Kovarik, A., and Hasterok, R. (2021). To Be or Not to Be Expressed: The First Evidence of a Nucleolar Dominance Tissue-Specificity in *Brachypodium hybridum*. *Frontiers in Plant Science*.
- Borowska-Zuchowska, N., **Mykhailiyk, S.**, Robaszkiewicz, E., Matysiak, N., Mielanczyk, L., Wojnicz, R., Kovarik, A., and Hasterok, R. (2023). Switch them off or not: selective rRNA gene repression in grasses. *Trends in Plant Science*.

LANGUAGES

- English (fluent)
- Polish (fluent)
- Russian (second language)
- Ukrainian (mother tongue)

HOBBIES

- Running (Race Nation competitions, TopRunners, NikeRun running clubs);
- Swimming (Race Nation competitions, GreenWave swimming club);
- Travelling, trekking and river rafting.

SKILLS

- FISH, 3D-FISH, GISH
- RNA isolation (RIN>8)
- RT-qPCR/qPCR
- Southern blot
- Basic phylogeny
- Bioinformatic analyse
- Geneious, CLC Genomic workbench
- *In vitro* culture maintenance
- Cloning, vector creation (GreenGate, CRISPR/Cas9)
- CRISPR/Cas9 mutant creations
- Plant/bacteria transformation
- SNP and haplotype analyse
- Primer design
- Basic R programming