Dasol Wi

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INTERESTS

- Gene regulation, Molecular biology, Genetics, Immunology, Cancer, Transgenic models

EDUCATION

York University

Toronto, ON, Canada

- Biomedical Science, 8.73/9 cGPA — Sep 2020 – Present
- Courses: Animals, Genetics, Cell Biology, Molecular Biology, Microbiology, Immunobiology, Vertebrate Endocrinology

Centennial College

Scarborough, ON, Canada

- Biotechnology, 4.148/5 cGPA — Sep 2015 – 2017
- Courses: Microbiology, Microbial Techniques, Statistics for Applied Science, Biochemistry, Recombinant DNA Technology

RESEARCH EXPERIENCE

Honors Thesis — **Advisor: Nikola Kovinich**

York University, Toronto, ON, Canada — Jan 2023 – Present

- Working on Investigating the role of SG2 motif in soybean phytoalexin biosynthesis using deletion and mutagenesis analysis.
- Lab skills: Gateway gene cloning, Yeast Two-Hybrid, Biomolecular fluorescence complementation (BiFC), Polymerase chain reaction (PCR), Yeast/*E.coli* transformation

Laboratory volunteer — **Advisor: Nikola Kovinich**

York University, Toronto, ON, Canada — Sep 2022 – Dec 2022

- Observed how the relationship between a JAZ1 protein and NAC42 transcription factors affects phytoalexin biosynthesis in soybean.
- Lab skills: RNA/DNA extraction, qPCR, Yeast One-Hybrid, RNA seq analysis, Fluorescent microscopy, Agrobacterium/Yeast/*E.coli* transformation, Ultra Performance Liquid Chromatography (UPLC)

Dean's Undergraduate Research Award (DURA) — **Advisor: Nikola Kovinich**

York University, Toronto, ON, Canada — Apr 2022 – Aug 2022

- Tried to induce shoot regeneration from cannabis stem cells by transforming its hypocotyl with Agrobacterium haboring a chimeric protein that includes glucocorticoid receptor (GR), regulating factor (GRF) and growth interacting factor (GIF).
- Lab skills: Gateway cloning, Agrobacterium transformation, handling plant tissue cultures in vitro, sonication, vacuum infiltration, ANOVA test

PUBLICATIONS

- Lin J, **Wi D**, Pullano S, Ly M, Martirosyan I, Kovinich N. Soybean Hairy Roots Transformation for Plant Genetic Engineering. *Journal of Visualized Experiments*, 2023.
- Lin J, Monsalvo I, Ly M, **Wi D**, Jahan MA, Martirosyan I, Jahan I, Kovinich N. ABA-regulated JAZ1 Protein Bind NAC42 Transcription Factors to Suppress the Activation of Phytoalexin Biosynthesis in Plants, *Plant Physiology* 2023, (in process).
- Lin J, Monsalvo I, Ly M, Jahan MA, **Wi D**, Martirosyan I, Kovinich N. RNA-Seq Dissects Incomplete Activation of

Phytoalexin Biosynthesis by the Soybean Transcription Factors GmMYB29A2 and GmNAC42-1, *Plants* 2023; 12(3):545.

SCHOLARSHIP & AWARD

- Summer 2022 Dean's Undergraduate Research Award (DURA) by York University
- Fall/Winter 2021 York University Continuing Student Scholarship
- Fall/Winter 2020 York University Continuing Student Scholarship