

- 2012 – 2019** **University of Toronto** **Scarborough, ON**
Laboratory & Seminar Teaching Assistant, Introductory Biology (BIO.A01/BIO.A02)
Course Marker, Plant Physiology (BIOB31 & BIOC40)
Seminar & Tutorial Teaching Assisting, Biology of Plant Stress (BIOD37)
Exam Support Team
- Demonstrating and conducting laboratories to 25-50 first year students
 - Teaching biological concepts, statistical skills and writing workshop in small (20 student) group and large (150 student) lecture settings
 - Developing assignments, quizzes and lab reports as lead biohelp TA
 - Liaison between exam coordinators, course instructors, facilities management and campus police.

- 2016 – 2019** **Inspiration Learning** **Scarborough, ON**
Science Teacher
- Developing and administering AP course content in small class settings.
 - Preparing students for successful AP testing by providing proven strategies for standardized test taking.

- 2015** **Ivy Education** **Woodbridge, ON**
Course Evaluation and Assessment Designer
- Developing creative and novel lessons based on Ministry expectations
 - Designing curriculum assessment and evaluations including but not limited to, summative and formative assessments, unit tests, final examination and cumulative tasks.
 - Designing thought provoking and discussion based modules

RESEARCH EXPERIENCE

- 2012 – 2020** **University of Toronto** **Scarborough, ON**
Research Assistant
- Data analysis, literature review and preparation of publications
 - qPCR, advanced confocal microscopy, biochemical assays
 - Training and supervising students

PUBLICATIONS

- Alber NA** & Vanlerberghe GC, 2021. The flexibility of metabolic interactions between chloroplasts and mitochondria in *Nicotiana tabacum* leaf. *The Plant Journal: for Cell and Molecular Biology*.
- Chadee A, **Alber NA**, Dahal K & Vanlerberghe GC. 2021. The complementary roles of chloroplast cyclic electron transport and mitochondrial alternative oxidase to ensure photosynthetic performance. *Frontiers in Plant Science*.
- Vanlerberghe GC, Dahal K, **Alber NA** & Chadee A. 2020. Photosynthesis, respiration and growth: A carbon and energy balancing act for alternative oxidase. *Mitochondrion*. 52: 197-211.
- Alber NA** & Vanlerberghe GC. 2019. Signaling interactions between mitochondria and chloroplasts in *Nicotiana tabacum* leaf. *Physiologia Plantarum*. 167(2): 188-204.
- Alber NA**, Sivanesan H, Vanlerberghe GC. 2017. The occurrence and control of nitric oxide generation by mitochondrial Complex III. *Plant, Cell and Environment*. 40:7: 1074-1085.

Dahal K, Martyn GD, **Alber NA**, Vanlerberghe GC. 2017. Coordinated regulation of photosynthetic and respiratory components necessary to maintain chloroplast energy balance in varied growth conditions. *Journal of Experimental Botany*.

Cvetkovska M, Dahal K, **Alber NA**, Jin C, Cheung M, Vanlerberghe GC. 2014. Knockdown of mitochondrial alternative oxidase induces the 'stress state' of signaling molecule pools in *Nicotiana tabacum*, with implications for stomatal function. *New Phytologist*.

Cvetkovska M, **Alber NA**, Vanlerberghe GC. 2013. The signaling role of a mitochondrial superoxide burst during stress. *Plant Signaling and Behaviour*. **(8)** e22749.

CONFERENCE AND SEMINAR PRESENTATIONS

Alber NA, Vanlerberghe GC. 2016. Retrograde signaling - the stress, the signal and the response. Plant Cellular and Molecular Processes Seminar. Oral Presentation

Alber NA, Vanlerberghe GC. 2015. The generation of nitric oxide by mitochondrial Complex III. Plant Cellular and Molecular Processes Seminar. Oral Presentation

Alber NA, Vanlerberghe GC. 2015. Investigating the role of plant mitochondria in NO synthesis and signalling. Canadian Society of Plant Biologists Eastern Regional Conference. Poster Presentation

Alber NA, Sivanesan H, Vanlerberghe GC. 2015. Investigating the role of plant mitochondria in NO synthesis and signalling. Botany 2015 Conference. Oral Presentation

Alber NA, Vanlerberghe GC. 2014. Investigating the role of plant mitochondria in NO synthesis and signalling. Plant Cellular and Molecular Processes Seminar. Oral Presentation

Alber NA, Sivanesan H, Vanlerberghe GC. 2014. Investigating the role of plant mitochondria in NO synthesis and signalling. Canadian Society of Plant Biologists Eastern Regional Conference. Poster Presentation

Alber NA, Vanlerberghe GC. 2013. The role of distinct and defined mitochondrial metabolic states in signaling for stress acclimation responses. Cells and Systems Biology PhD Transfer Seminar. Oral Presentation.

Alber NA, Vanlerberghe GC. 2013. The role of distinct and defined mitochondrial metabolic states in signaling for stress acclimation responses. Plant Cellular and Molecular Processes Seminar. Oral Presentation.

AWARDS, COMMITTEES & MEMBERSHIPS

Town of Aurora Cannabis Task Force, 2026

University of Toronto TA Teaching Award, 2016.

Graduate Curriculum Committee, University of Toronto. 2016 - 2022.

Arts and Science Council Committee, University of Toronto. 2016 - 2023.

Judge for Scinapse Undergraduate Science Case Competition. 2016 - 2020.

Organizing Committee for Cells and Systems Biology Research Day, University of Toronto. 2014 - 2018.

Outstanding Volunteer Achievement Award, 2013 & 2014.

on behalf of Prime Minister Stephen Harper and the Government of Canada

Valerie Anderson Graduate Fellowship, University of Toronto. 2013.

to be awarded on the basis of academic merit (research and course work) to an outstanding graduate student in any subdiscipline of Plant Biology

Member of the Canadian Society of Plant Biologists. 2012 - present.

VOLUNTEER EXPERIENCE

2012 – Present

Yellow Brick House

Vaughan, ON

Domestic Violence Shelter

- Tutored women and children in various subjects
- Received 2 awards based on contributions and commitment
- Received, organized and distributed donations
- Set-up, organized and attended various fundraising and awareness events
- Related information regarding the organization

2011 – 2013

Heart & Stroke Foundation

Toronto, ON

Volunteer Coordinator

- Provided support for volunteers and confirm their participation
- Distributed information packages
- Collected donations
- Relayed information regarding the fundraiser

2010 – 2012

Canadian Breast Cancer Foundation

Toronto, ON

Run for the Cure

- Set-up for conferences
- Prepared and distributed registration kits
- Processed payments and donations
- Relayed information regarding various fundraisers

PROFESSIONAL DEVELOPMENT

Enhancing Your Soft Skills for Networking, *Ruth Loudon*

Advanced Interview Skills for Graduate Students, *Ruth Loudon & Dr. Sheryl Stevenson*

Translating Research into Practice: Poster Presentations, *Adoni Irani & Sarah Forbes*

Social Entrepreneurship & Canada's Social Economy, *Dr. Ann Armstrong*

Expanding Your Leadership Toolkit: Solution-Focused Coaching, *Liam O'Leary*

Knowledge Co-Production and Research with Community Partners, *Dr. Nicole Klenk*

Developing Your Teaching Philosophy and Dossier: A Personal Teaching Journey, *Megan Burnett*

Empathy, Leadership and Mentoring, *Dr. Joanna Heathcote*

QUALIFICATIONS/SKILLS

- Biosafety, WHMIS and radiation trained
- Superb leadership, interpersonal, planning and communication skills
- Persistent and driven
- Dynamic personality and willing to learn and grow
- Extensive training in Microsoft Office (Word, Excel, PowerPoint, OneNote)
- Proficient with laboratory equipment and research techniques
- Competent with R programming