A NATIONAL SCIENCE COMPETITION FOR YOUNG WOMEN SCIENTISTS ACROSS CANADA (2021)
As a Chair and Lead of SCWIST Science Symposium, I would like to say thanks to all students who participated in this competition. When I conceptualized this idea, the only thing in my mind was how it might benefit the undergraduate and graduate students? My own experience as a student in the laboratory helped me to channelize it for successful execution. It was amazing to see it blossoming when it received participation of 88 students from 38 universities / institutes across Canada (9 Provinces).

I wish good luck to 15 top finalists and my message for other 74 students is to not lose hope. World does not end here. All abstracts were highly competitive and we had to select only top three / category. Stay enthusiastic and determined in what you like to achieve in life.

As the Vice Chair and Co-Lead of the Science Symposium, I am honoured to welcome you all the inaugural event.

The Science Symposium provides a unique and long-overdue opportunity for young scientists: a platform to present and discuss their work with students and professors in their field from across the country, all while contributing to their professional development and growth.

I would like to thank each student who submitted an abstract for taking the time to share your ideas, knowledge and expertise with us. You are making the world a better, brighter place for future generations.

Best of luck to all, and enjoy the event!
Symposium Board Committee

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Emeritus Professor,
Department of Medicine, UBC
Emeritus Scientist, TRIUMF & BCCRC
Fellow of Royal Society of Canada
Category: Drug Discovery — Oncology & Neuroscience

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Adjunct Professor, University of Victoria
Category: Physical Science — Particle Physics

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Director of Computer Science,
Northeastern University
Category: Machine Learning — Artificial Intelligence

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Policy Advisor
Environment and Climate Change, Canada
Scientific Data Scientist (Federal & Municipal Dept.)
Category: Global Warming — Earth and Environmental Science

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Assistant Professor
Bioengineering, McGill University
Category: Bioengineering/technology — Biosensing
Symposium Judges (Round#2)

Category: Bioengineering/technology — Biosensing

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Sanofi Pasteur, Canada

Dr. Anjana Govindarajan
Director & Strategic Business Consultant
ANRS Consulting Inc., Canada

Category: Drug Discovery — Oncology & Neuroscience

Dr. Aashima Khosla
Research Scientist, QuadroCore
Canada

Maria S Athanassiu, PhDc
Biomedical Science
University of Montreal, Canada
Medical Science Liaison, Canada
MPH Public Health, UK

Category: Global Warming — Earth and Environmental Science

Claris Canta (MSc, Australia)
Internal Systems Coordinator
Student Energy
Canada

Cecilia Sierra-Heredia
MSc, MA (UBC)
Lecturer
Faculty of Health Sciences
SFU Canada
Symposium Judges (Round#2)

Category: Machine Learning — Artificial Intelligence

Dr. Nidhi Rastogi
Research Scientist
Rensselaer Polytechnic Institute, USA

Dr. Gabriella Pizzuto
Postdoc Research Associate
University of Liverpool, UK

Category: Physical Science — Particle Physics

Dr. Nedaa-Alexandra Asbah
Postdoctoral Fellow
Harvard University, USA

Dr. Otilia Ducu
Senior Research Fellow
CERN, Switzerland
IFIN-HH, Romania
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<td>First Prize</td>
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<td>15 Finalists 20$ Starbucks Gift Cards</td>
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TOP 15 FINALISTS

Category: Bioengineering/technology — Biosensing

Anat Usatinsky  
Ryerson University  
Canada

Tofa Begum  
INRS-Institut Armand Frappier Health Biotechnology, Canada

Gagan Gill  
Wilfrid Laurier University, Canada

Category: Drug Discovery — Oncology & Neuroscience

Jaime Korner  
University of Victoria  
Canada

Tanya Saxena  
University of British Columbia, Canada

Melissa D’Amaral  
Ryerson University  
Canada

Category: Machine Learning — Artificial Intelligence

Banafshe Felfeliyan  
University of Calgary  
Canada

Jueqi Wang  
St. Francis Xavier University  
Canada

Veena Logithasan  
University of Alberta  
Canada
TOP 15 FINALISTS

Category: Physical Science — Particle Physics

Robin Hayes
TRIUMF/UBC, Canada

Shahrzad Taherizadehgan
University of Calgary, Canada

Danika MacDonell
University of Victoria, Canada

Category: Global Warming — Earth and Environmental Science

Amy Heim
Saint Mary’s University, Canada

Kristen Hayward
Queen’s University, Canada

Dilrukshi K Liyanage
University of Alberta, Canada
ABSTRACTS
(Alphabetical Order, First Name)

1  Abir Rahali (University of New Brunswick)
   Didroid: Android Malware Classification And Characterization Using Deep Image Learning

2  Abir Rahali (Université de Moncton)
   Malbert: Using Transformers For Cybersecurity And Malicious Software Detection

3  Abir Rahali (Université de Moncton)
   Automatic Misogyny Detection In Social Media Platforms Using Attention-Based Bidirectional-LSTM

4  Alexandra Schoen (University of Manitoba)
   Simulated Heatwave And Fishing Stressors Alter Corticosteroid And Energy Balance In Neonate Blacktip Reef Sharks, Carcharhinus Melanopterus.

5  Alice Santilli (Queen's University)
   Domain Adaptation And Self-Supervised Learning For Surgical Margin Detection

6  Alicia Howse (University of Ottawa)
   Drains Vs Natural Streams: A Comparison Of Fish Communities In The South Nation Watershed

7  Alisha Szozda (University of Ottawa)
   Investigating Educators' Perspectives Toward Systems Thinking In Chemistry Education Approaches

8  Alix Tole (Red River College/ University of Winnipeg)
   Feasibility Study For The Incineration Of Municipal Solid Waste For Norway House, Manitoba

9  Amy Heim (Saint Mary's University)
   Variation In Environmental Stress And Heterogeneity Led To The Development Of Distinct Green Roof Plant Communities

10 Anastasiia Stepanchuk (University of Calgary)
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Engineering Protein Reagents Towards The Development Of A Portable Immunoassay To Detect SARS-Cov-2 Neutralizing Antibodies

12
Ashley Elgersma (The King's University)
The Sounds Of Spectra – Combining Auditory And Visual Modes To Facilitate Understanding The Chemistry Of Climate Change

13
Auriane Canesse (McGill University)
First Observation Of WΥΥ Triboson Production In Proton-Proton Collisions.

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Banafshe Felfeliyan (University of Calgary)
Toward Accurate MRI Bone And Cartilage Segmentation In Small Data Sets Via An Improved-Mask-R-CNN: Data From The Osteoarthritis Initiative

15
Caitriona Douglas (Dalhousie University)
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Robots, Bullies And Stories: A Remote Co-Design Study With Children

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Eliana Feygin (University of Waterloo)
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