

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Prix du meilleur projet

Parrainé par: Sciences jeunesse Canada
Prix

Bhavya Mohan [16] – Ottawa ON

Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Prix Platine - Meilleur projet sénior

Parrainé par: Sciences jeunesse Canada
Prix

Manning Whitby [18] – Toronto ON

An Interpretation of Life Through Vibration Motors

Prix Platine - Meilleur projet intermédiaire

Parrainé par: Sciences jeunesse Canada
Prix

Bhavya Mohan [16] – Ottawa ON

Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Prix Platine - Meilleur projet junior

Parrainé par: Sciences jeunesse Canada
Prix

Islay Graham [13] – Bluewater ON

Rake Wrack Risk: Do Piping Plovers Prefer a Clean Beach?

Parrainé par: Sciences jeunesse Canada

Kai Leong [18] – Greater Vancouver BC

Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Parrainé par: Sciences jeunesse Canada

Kai Leong [18] – Greater Vancouver BC

Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Peter Zhu [16] – South-East New Brunswick NB

Development of an AI-Based Acute Promyelocytic Leukemia Classification System

Prix Jeunesse innovante

Sénior

Parrainé par: La Fondation Gwyn Morgan et Patricia Trottier

Huit projets recevront chacun une bourse 1 000 \$ en argent comptant et un certificat. Quatre de ces lauréates et lauréats des prix Jeunesse innovante recevront en plus une bourse de 7 000 \$ en argent comptant

Om Agarwal [16] – Halifax NS

DetectTimely

Kai Leong [18] – Greater Vancouver BC

Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Stephen Lu [17] – Montréal RM QC

Emergence, une approche statistique pour optimiser la salle d'urgence

Jacqueline Mansiere [17] – Central Okanagan BC

'Sensing' Health Improvement: How Auditory Input Can Impact Our Health

Pakeeza Mushtaq [17] – Southeast Alberta AB

A Novel DSSC Using Bio-Photosensitizer Pigments and Diatom Frustules

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Shounak Ray [16] – Calgary Youth AB
A Predictive Diagnosis for Parkinson's Disease Through Machine Learning

Manning Whitby [18] – Toronto ON
An Interpretation of Life Through Vibration Motors

Peter Zhu [16] – South-East New Brunswick NB
Development of an AI-Based Acute Promyelocytic Leukemia Classification System

Prix Jeunesse innovante

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Parrainé par: La Fondation Gwyn Morgan et Patricia Trottier
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Stephen Lu [17] – Montréal RM QC
Emergence, une approche statistique pour optimiser la salle d'urgence

Shounak Ray [16] – Calgary Youth AB
A Predictive Diagnosis for Parkinson's Disease Through Machine Learning

Manning Whitby [18] – Toronto ON
An Interpretation of Life Through Vibration Motors

Peter Zhu [16] – South-East New Brunswick NB
Development of an AI-Based Acute Promyelocytic Leukemia Classification System

Prix Jeunesse innovante

Intermédiaire

Parrainé par: La Fondation Gwyn Morgan et Patricia Trottier
Quatre projets recevront chacun une bourse de 750 \$ en argent comptant et un certificat

Bhavya Mohan [16] – Ottawa ON
Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Juliette Quirion [15] – Estrie QC
Dessine-moi un mouton

Monis Sayyid [14], **Jack Sloan** [15] – Rideau-St. Lawrence ON
The Windfall Solution: An Alternative Winter Road Treatment

Nethra Wickramasinghe [15] – Sudbury ON
A Novel Neuropsychiatric Wearable System Using Cognitive Behavioural Therapy

Prix Jeunesse innovante

Junior

Parrainé par: La Fondation Gwyn Morgan et Patricia Trottier
Quatre projets recevront chacun une bourse de 500 \$ en argent comptant et un certificat

Islay Graham [13] – Bluewater ON
Rake Wrack Risk: Do Piping Plovers Prefer a Clean Beach?

Christopher Lamont [13] – Bay Area ON
Creation of an Intravenous Fluid Administration System for Low Income Countries

Bruce Porter [14] – Yukon/Stikine YT
Pristine Waters: A Pioneering Project in Yukon River Microplastic Research

Callum Yoker [13] – Windsor ON
Manipulating Microbial Membrane Permeability to Dyes

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Bourse d'études de Western University

Médaille d'or - Bourse d'admission de 4 000 \$

Parrainé par: Université Western

Une bourse de début d'études d'une valeur de 4 000 \$ est offerte à chaque finaliste se voyant remettre une médaille d'or. Une bourse de début d'études d'une valeur de 2 000 \$ est offerte à chaque finaliste se voyant remettre une médaille d'argent. Une bourse de début d'études d'une valeur de 1 000 \$ est offerte à chaque finaliste se voyant remettre une médaille de bronze.

Om Agarwal [16] – Halifax NS

DetectTimely

Amal Aziz [17] – Thames Valley ON

Smart Photo-Active Trojan Horse Nanoparticle for Alzheimer's Vascular Therapy

Antoine Blais [14] – Estrie QC

OMG, des insectes!

Tori Chen [17] – Thames Valley ON

Gene Therapy: A Treatment for Diabetic Cardiomyopathy

Jordan Fergani [14], **Edward Xiong** [14] – Sudbury ON

A.T.L.A.S.T: Auto Temperature Live Alert System Thermometer

Islay Graham [13] – Bluewater ON

Rake Wrack Risk: Do Piping Plovers Prefer a Clean Beach?

Rohan Gupta [16] – Vancouver Island BC

Cytogenotoxic Effects of Local Stormwater on Allium cepa L.

Lucas Hilden [13] – Annapolis Valley NS

The New Solution for Facial Blindness

Sophie Hoyer Pacholek [15] – Calgary Youth AB

From Sea and Sky: Biomimetic Wings for Enhanced Aircraft Performance

Daniel Kornylo [15] – Northern Vancouver Island BC

The Development of a Research Tool to Improve Snake Husbandry

Christopher Lamont [13] – Bay Area ON

Creation of an Intravenous Fluid Administration System for Low Income Countries

Kai Leong [18] – Greater Vancouver BC

Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Krish Modi [14] – Lambton County ON

'No to Photo' – My Photo Consent

Bhavya Mohan [16] – Ottawa ON

Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Pakeeza Mushtaq [17] – Southeast Alberta AB

A Novel DSSC Using Bio-Photosensitizer Pigments and Diatom Frustules

Harry Parmar [15] – York ON

Synthetic Violacein: The Power of Designer Pharmaceuticals in the Real World

Bruce Porter [14] – Yukon/Stikine YT

Pristine Waters: A Pioneering Project in Yukon River Microplastic Research

Juliette Quirion [15] – Estrie QC

Dessine-moi un mouton

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Ali Rizvi [15] – Regina SK

Detecting Exoplanets Using Supervised Machine Learning

Emily Robb [16] – Western Manitoba MB

Grow Big or Grow Home: The Roots to Hydroponic Success

Anthony Saturnino [13] – Bay Area ON

Eave 7.0: An Autonomous Robotic Eavestrough Cleaner

Monis Sayyid [14], **Jack Sloan** [15] – Rideau-St. Lawrence ON

The Windfall Solution: An Alternative Winter Road Treatment

Leah Schwartz [16] – Manitoba Schools Science Symposium MB

Regulation of Periostin Gene Expression by Scleraxis

Claire Scrimini [16], **Vanessa Scrimini** [16] – Greater Vancouver BC

Algae Meets Fungi: Microalgae-Fungi Co-Pelletization for Biofuel Production

Neila Selouani [13] – Districts francophones du Nouveau-Brunswick NB

ARim : un nouvel outil d'aide pour le diagnostic de la rétinopathie diabétique

Muhammad Shahzad [16] – Edmonton AB

Pomelo and Chinese Bayberry Extracts Protect Mouse β Cells from Oxidative Stress

Manning Whitby [18] – Toronto ON

An Interpretation of Life Through Vibration Motors

Nethra Wickramasinghe [15] – Sudbury ON

A Novel Neuropsychiatric Wearable System Using Cognitive Behavioural Therapy

Callum Yoker [13] – Windsor ON

Manipulating Microbial Membrane Permeability to Dyes

Peter Zhu [16] – South-East New Brunswick NB

Development of an AI-Based Acute Promyelocytic Leukemia Classification System

Bourse d'études de Western University

Médaille d'argent - Bourse d'admission de 2 000 \$

Parrainé par: Université Western

Une bourse de début d'études d'une valeur de 4 000 \$ est offerte à chaque finaliste se voyant remettre une médaille d'or. Une bourse de début d'études d'une valeur de 2 000 \$ est offerte à chaque finaliste se voyant remettre une médaille d'argent. Une bourse de début d'études d'une valeur de 1 000 \$ est offerte à chaque finaliste se voyant remettre une médaille de bronze.

Yaseen Abbas [16] – York ON

Anthocyanins: A Natural Deterrent to Carcinogenesis

Rya Adronov [14] – Bay Area ON

Ti-Dye Energy: Natural Dye Combinations in Dye-Sensitized Solar Cells

Hadi Almalki [16] – Waterloo-Wellington ON

Random Forest Classification of Histopathological Images

Teryl Bates [16] – Central Okanagan BC

A Fibonacci Solution – Mitigating Landslides and Avalanches (v2)

Mira Bhattacharya [15] – York ON

An Eco-Friendly Method to Remove Oil and Other Contaminants Using Fruit Peels

Kyle Brent [14] – Greater Vancouver BC

Metallurgy Mayhem

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



-
- Charley Cai** [18] – Greater Vancouver BC
Chagas Disease: Decoding Vector-Based Pathogen Recognition
-
- Ethan Chan** [14] – Vancouver Island BC
Protein Problem: A Digitized At-Home Urinalysis Device for Kidney Disease
-
- Anna Chandler Merlo** [12] – Ottawa ON
Which is the Best Alternative to Paraffin Wax: Beeswax, Soy, Palm or Coconut Wax
-
- Sarah Choi** [16], **Neelah Hassanzadeh** [16] – Fraser Valley BC
BSFL Frass: Improving Plant Health While Minimizing Environmental Impact
-
- Sarah Chun** [17] – Thames Valley ON
Effect of COX-1 Inhibition on Tumour Organoids Using SC-560
-
- Maisie Cottrill** [14] – Bluewater ON
Pi in the Sky: A Sustainable, Web-Based, Automated Greenhouse
-
- Fuyang Deng** [16] – Northwestern Ontario ON
Nipigon River Landslides: A Study of Soil Moisture on the Risk of Slope Failure
-
- Gaia Fameli** [14] – Greater Vancouver BC
Nailing (the Issue with) Nail Polish
-
- Wendy Fang** [16] – Greater Vancouver BC
The Pollen GPS
-
- Adelka Felcarek-Hope** [16], **Sofia McVetty** [16] – Montreal QC
The Poly-Phaeophyceae Method
-
- Erica Forsythe** [15] – Sunset Country ON
Medicine in My Backyard
-
- Zoe Gagnon** [18] – Niagara ON
Activating Insulin Receptors in Fruit Fly Larvae Decreases Movement
-
- Sébastien Girard** [17] – Outaouais QC
Correction assistée
-
- Amy Gudmundson** [15] – Western Manitoba MB
Le système flash de surveillance du glucose et la dermatite – l'enquête débute !
-
- Aaryan Harshith** [13] – Renfrew County ON
Using Artificial Intelligence to Diagnose Diabetes Early
-
- Graeme Hopkins** [14] – Ottawa ON
A Taphonomic Comparison of Two Ordovician Fossil Assemblages
-
- Julien-Pierre Houle** [16] – Estrie QC
Transition près du zéro absolu
-
- Kiera Hui** [13] – Toronto ON
Can Cotton Textiles be used to Clean Up Oil Spills
-
- Etienne Joulin** [16] – Thames Valley ON
Identification of Genetic Similarities between Parasites and Hosts Using CGR
-
- Guntaas Kaur** [15] – Peel ON
Insights into Cytokinin Functions: Characterizing Arabidopsis thaliana Mutants
-
- Raphael Kelly** [14] – Calgary Youth AB
Utilizing GIS and Data Analysis to Assess Human Impact on Migratory Bird Species

Récipiendaires des prix

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Fredericton (Nouveau-Brunswick)



-
- Jeffrey Klinck** [14] – Bay Area ON
Using BCI and AI to Detect Emotions for Mental Health Applications
-
- Jesse Lee** [16] – Calgary Youth AB
Protein Based Biosensor: Roadside Detection of THC
-
- Monica Aida Lopez** [16] – Calgary Youth AB
Lessening Allergic Activities of Lipid Transfer Proteins in Plant Tissue
-
- Stephen Lu** [17] – Montréal RM QC
Emergence, une approche statistique pour optimiser la salle d'urgence
-
- Shayan Mahmood** [12] – Thames Valley ON
DeepWave: Cardiac Arrhythmia Diagnosis Using a Deep Learning ECG System
-
- Jacqueline Mansiere** [17] – Central Okanagan BC
'Sensing' Health Improvement: How Auditory Input Can Impact Our Health
-
- Mikko Lorico** [14], **Deven Marrero** [13] – South Fraser BC
AutoParkade: Could this solve long parking wait times?
-
- Davin Martin** [13] – Calgary Youth AB
Mealworms – A Way to Reduce Styrofoam!
-
- Abby Mattina** [15] – Toronto ON
Time to Switch to Switchgrass Bedding?
-
- Hollis Mattson** [12] – Northern British Columbia BC
Underwater Soundscape
-
- Jannah McCallum** [12] – Prince Edward Island PE
Weeding Out the Alternatives: Is Cinnamon an Herbicide?
-
- Ahmed Nadeem** [16] – York ON
A Novel Approach to Alleviate Oxidative Stress in Daphnia magna by D-limonene
-
- Joe Moak** [13], **Davis Nicholson** [13] – Prince Edward Island PE
Ready Set Grow: A guide to Better Microgreens
-
- Annika Paliwal** [13] – Manitoba Schools Science Symposium MB
Determining Cognitive Abilities of Individuals through Associative Memory Games
-
- Emma Palmer** [13] – Simcoe County ON
Northern NEW-trition
-
- Dhruv Patel** [15] – Frontenac, Lennox & Addington ON
A Novel Approach to Diagnose Glioblastoma
-
- Adam Patton** [15] – Cariboo/Mainline BC
The Power of Hydrogen
-
- Hayden Persad** [15] – West Kootenay & Boundary BC
Using Potato Peel Waste as a Polymer Source in the Creation of a Bioplastic
-
- Reid Pidsadowski** [13] – Edmonton AB
Diesel From the Field
-
- Shaun Plassery** [14] – Peterborough ON
Slick Sorbents for Cleaning Up Ocean Oil Spills Using Hair, Wool and Jute
-
- Shounak Ray** [16] – Calgary Youth AB
A Predictive Diagnosis for Parkinson's Disease Through Machine Learning

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Patricia Rea [13] – York ON

BioGrade Yeast: Biomanufacturing with Antifreeze-Yeast on Mars

David Richard [17] – Saguenay-Lac Saint-Jean QC

Pi, ça donne quoi ?

Hajeong Seo [15] – Montreal QC

Fog On, Fog Off

Sasha Seufert [17] – Waterloo-Wellington ON

Delivery of DNA to Stem Cells via Nematocysts

Hardit Singh [13] – Waterloo-Wellington ON

FoodSpec – A Multispectral Detector for Non-Destructive Testing of Food

Syni Solanki [15] – Peel ON

Modification of Nuclear Architecture in Hodgkin's Lymphoma due to Lamin A/C

Graydon Strachan [14] – Winnipeg Schools MB

MAC-2: Estimation of Weight Using a Modified Blood Pressure Cuff

Anna Voia [16] – Montréal RM QC

Ensemble contre la résistance

Mohammed Torkmani [14], **Raphael Xu** [14] – Bay Area ON

Plastic Delicacies: The Consumption and Biodegradation of Polystyrene by

Kerry Yang [14] – Sudbury ON

Weeding Out the Secret to Antibiotic Resistance

Jessica Yemen [15] – Renfrew County ON

Taking Flight: Monarch Butterfly Conservation

Matthew Zhou [17] – Thames Valley ON

Effects of BMI and SSRI Use on Inflammation in Adolescents with Mood Disorders

Bourse d'études de Western University

Médaillé de bronze - Bourse d'admission de 1 000 \$

Parrainé par: Université Western

Une bourse de début d'études d'une valeur de 4 000 \$ est offerte à chaque finaliste se voyant remettre une médaille d'or. Une bourse de début d'études d'une valeur de 2 000 \$ est offerte à chaque finaliste se voyant remettre une médaille d'argent. Une bourse de début d'études d'une valeur de 1 000 \$ est offerte à chaque finaliste se voyant remettre une médaille de bronze.

Sparsh Agrawal [16] – Manitoba Schools Science Symposium MB

Improving Current Stock-Trading Infrastructure Using a Blockchain Network

Ahmad Ali [17] – Windsor ON

SignSMART V.2

Hamdi Ali [17] – Edmonton AB

Diamonds in the Rough: Maximizing Diamond Recovery

Nicolas Allard [17] – Saguenay-Lac Saint-Jean QC

Robot au service du ping-pong

Momin Anwar [15] – Eastern Newfoundland NL

Improving Bioplastics Properties by Incorporating Hydrophobic Materials

Tavian Augustus [12] – Bay Area ON

Solar Step: Combining Solar Panels and Piezo Cells to Create Clean Electricity

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Fredericton (Nouveau-Brunswick)



Jaden Balasuriya [13] – Simcoe County ON
Pucksense

Mokhtar Beldjilali [16] – Districts francophones du Nouveau-Brunswick NB
Friperie Marie-Esther : ressortez votre style

Bridgit Bennett-Delorme [15] – Renfrew County ON
CPR Model #2

Jemma Blattner [13] – Central Interior British Columbia BC
Food Fit for Fairies

Ethan Breit [16] – Toronto ON
Performant GPU Pathtracing

Johnathan Campbell [13] – Kivalliq NU
Window Parka

Keanu Chan [12] – East Kootenay BC
HEALIT 3.0 (Hemostasis by Expanding Automatic Life-Saving Innovative Technique)

Abby Chapman [16] – Prince Edward Island PE
Temperature Dependent Approach to Enhance Drug Discovery from Bacteria

Brent Charron [16] – Windsor ON
Slip Prevention System Using Tribometric, Light, Moisture, and Temperature Sensors

Ethan Chiang [13] – Bay Area ON
Proteolytic Effect of Fruit Enzyme Homogenate on Different Doneness of Beef

Ryan Churchill [16] – Tri-County NS
Phone 2 Phone

Ally Churko [16] – Prairie Valley SK
Can Transgenerational Epigenetics be Shown in Eisenia fetida?

Mitchell Clapperton [13] – Bay Area ON
AeroTronics – A High Pressure Aeroponics System for Sustainable Indoor Agriculture

Mary Clifford [14] – Waterloo-Wellington ON
When Life Gives You Potatoes, Make Plastic

Julia Cross [16] – Northwestern Ontario ON
Analysis of Canine Musculoskeletal Injuries from Sled Dog Harness Designs

Lucas Crupi [15] – Northwestern Ontario ON
Spectrophotometry for Concentration Testing on E. coli Using Relative Absorbance

Fletcher Dares [14] – Beaufort-Delta NT
The Effects of Low Earth Orbit on Digital Displays

Tristan Davies [12], **Ryan Wilson** [13] – Halifax NS
Whale of a Problem – An Innovation on North Atlantic Right Whales

Catherine Diyakonov [14] – Greater Vancouver BC
Developing Bioplastic Walls: Reducing Waste and Restoration Costs After Floods

Megan Downe [16], **Avery Nicholson** [15] – 4-H Canada PE
Ulva lactuca: Subcritical Water and Supercritical CO2 Extractions

Emilia Dyksterhuis [12] – Northern British Columbia BC
Spare Our Air: The Use of Algae Scrubbers in the Oil and Gas Industry

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Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Aeryn Eastwood [14] – Halifax NS <i>Garbage to Gucci: A Novel Approach to Producing an Eco-Friendly Leather</i>
Milo Eirew [15] – Greater Vancouver BC <i>The Hydrocyclic Cell – A Novel Improved-Efficiency Fuel Cell</i>
Ava Fischer [13] – Simcoe County ON <i>Stand Open</i>
Marin Foulds [13], Claire Pasenau [12] – Central Okanagan BC <i>Spin Stove</i>
Shreya Gandhi [15] – Vancouver Island BC <i>Smarticle Particles: Laser-absorbing gold nanoparticle solution for airplanes</i>
Anika Garg [16] – Thames Valley ON <i>Developing a Self-Sensing Actuator for Use in Wearable Rehabilitation Devices</i>
Brianna Garvey [12] – Bluewater ON <i>Don Don Don</i>
Emily Goodson [15], Nikki van Schaik [14] – Simcoe County ON <i>Comparing the Effects of Aerobically Decomposed Waste on Plant Development</i>
Jonathan Goudreault [14] – Peace Country AB <i>Microwave Manipulation</i>
Tara Gover [16] – North-West New Brunswick NB <i>Thermoelectricity: Powering the Ships of Tomorrow</i>
Samara Green [14], Anaya Permanand [13] – Northern Manitoba MB <i>Is It Possible to Repurpose Slag from the Nickel Mining Industry?</i>
Sarah Grieves [16] – Manitoba First Nations MB <i>Soil Contamination in Oxford House</i>
Lénárd Grossmann [15] – Edmonton AB <i>Intelligent Architecture – Can AI predict architecture that makes us happy?</i>
Christina Hanna [16] – Bay Area ON <i>Eco-Friendly Solutions Preventing Redox Reactions for Economic Sustainability</i>
Hillary Huynh [16] – Yellowknife NT <i>Physiognomy Retention</i>
James Iansavitchous [17] – Thames Valley ON <i>B-ALL Leukemia Treatment: Exploiting Dependency on ROS to Prevent Proliferation</i>
Pasha Jones [15], Adrianna Vutrano [15] – Montreal QC <i>Portable House</i>
Sophia Khoury [14] – Toronto ON <i>Hand Sanitizer and the Elimination of Home and School-Acquired Bacteria</i>
Juliana Koen Alonso [17] – Eastern Newfoundland NL <i>The Effect of the Engrailed Gene & TGF Beta on the Migration of Ovarian Cancer</i>
Jessica Lee [15] – Halifax NS <i>Are 'Eco-Friendly' Detergents Really More Eco-Friendly?</i>
Paul Lee [14] – Bay Area ON <i>Conserving Momentum with MMDs</i>

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Samuel Lefrançois [17], Cloé Robichaud [17] – Districts francophones du Nouveau-Brunswick NB
L'impact des routes sur les forêts

Laurence Liang [17] – Montréal RM QC
La régénération neuronale assistée par un modèle informatique

Oana Binder [17], Josh Lien [16] – Waterloo-Wellington ON
ViraDose: A Novel Application for Facilitating Gene Therapy Dosing

Hana Haytaoglu [16], Hannah MacAusland [16] – Peterborough ON
Preparation, Property Testing, and Applications of Bioplastic

Monica Mahut [16] – Bay Area ON
Elevator to Everywhere

Cyril Mani [18] – Montréal RM QC
Democratizing Aerospace Technologies: A Novel Approach to Space R&D

Grace Marion [14] – Windsor ON
Do Walleye Fish in Lake Erie Show Presence of Mercury?

Dana Mavrow [16] – Vancouver Island BC
Reused Christmas Trees: Creating a Biodiesel from Pine Needles

Lucas McDonnell-Hoffert [13] – West Kootenay & Boundary BC
To Be There or Not to Be There... The Case for Vibrant Lines!

Trevor Meek [13] – Sudbury ON
Development of a Timed On-Demand Wireless Heated Washer Fluid System

Rohan Mehta [14] – Simcoe County ON
Automating the Detection and Probability of Wildfires – Tapio

Luca Ménard [13] – Frontenac, Lennox & Addington ON
Harnessing Nature's Power

Henley Mullins [14] – Eastern Newfoundland NL
Experimental Optimization of a Hybrid Rocket Engine

Jodh Singh Nahal [15] – Cariboo/Mainline BC
Optimizing MFCs With a Novel Approach and Controlling Eutrophication

Francois Marais [15], Caprinder Nanrey [16] – Wood Buffalo AB
Security Upgrade

Adrian Nitu [13] – Ottawa ON
A Novel Artificial Intelligence-Based Approach to Dynamic Traffic Management for

Emilia Oliver [14] – Timmins ON
Using Food Waste to Remove Arsenic from Water 2.0 – It's All About Oranges

Layla Owens [13] – Conseil scolaire acadien provincial NS
Submergence !

Áine Pucchio [16] – Thames Valley ON
A Pineapple a Day Keeps the Doctor Away – It's Not So Difficile

Crystal Radinski [18] – Calgary Youth AB
EEG Coherence as BioMarker for Alzheimer's Dementia

Rosemund Ragetli [17] – St. James-Assiniboia MB
An Economically Plausible Reduction of Food Wastage in Kenya

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Rebecca Rathlef [15] – Greater Vancouver BC <i>Natural Products as Potential Sunscreens</i>
Annabelle Rayson [13] – Lambton County ON <i>De-Icer Distillery: An Innovative and Environmental Approach to Road Safety</i>
Christianne Riveroll [14] – Prince Edward Island PE <i>The Psychology of Colour</i>
Alexander Rozic [13] – Quinte ON <i>Do You See What I See?</i>
Devarsh Shah [16] – Lambton County ON <i>A Novel Dielectrophoretic-Based Separation System for Cell Identification</i>
Mankeerat Singh Sidhu [15] – South Fraser BC <i>A Hand for Hope</i>
Aiden Simard [18] – Western Manitoba MB <i>Adolescent Anxiety and Social Media</i>
Leila Smaili [14] – Frontenac, Lennox & Addington ON <i>Are Pesticide Formulations Genotoxic?</i>
Lily Smales [14] – Bay Area ON <i>Convolutional Neural Network to Detect Eyes with Visual Impairment</i>
Abby Snodgrass [17] – South-East New Brunswick NB <i>Interceptive Awareness and the Novel Use of VR with Arduino Based Sensors</i>
Andy Liang [16], Alexander Sun [16] – Greater Vancouver BC <i>Novel Treatment of Algal Blooms with Viral Transfection and Barley Straw Extract</i>
Abdallahman Tawhid [18] – Cariboo/Mainline BC <i>Extensive Development of Statistical Models to Predict Future Health Care Trends</i>
Kyra Taylor [18] – Northern British Columbia BC <i>Keeping the Balance: The Correlation Between Diet and pH in the Equine Hindgut</i>
Nattan Telmer [16] – Vancouver Island BC <i>A Flexible TEG Prototype (FlexiTEG) for Wearable Electronics</i>
Anna Tymofyeyeva [16] – York ON <i>An Integrated Glucose Meter Using Sweat Diagnostic Technology for Diabetics</i>
Rachael Urquhart [12] – Bluewater ON <i>Calm Your Beating Heart: An Experiment on Ways to Lower Heart Rate</i>
Laura Wang [16] – Greater Vancouver BC <i>Endotoxin's Association with Wheeze and Atopy</i>
Brooklynn Watson [14] – Northern Vancouver Island BC <i>CRISPR Cas9 and the Human Genome</i>
Wei Xie [15] – Greater Vancouver BC <i>FireBot: Augmenting Firefighting with AI</i>
Zoe Yee [13] – Edmonton AB <i>Water My Seeds Doing in Water Beads?</i>
Kevin Liu [14], Saabir Yousuf [14] – Saskatoon SK <i>Economically Feasible Desalination</i>

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Bourse d'admission de l'Université d'Ottawa

Médaille d'or, sénior - Bourse d'admission de 4 000 \$

Parrainé par: Université d'Ottawa

Une bourse de début d'études de l'Université d'Ottawa d'une valeur de 4 000 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille d'or.

Une bourse de début d'études de l'Université d'Ottawa d'une valeur de 2 000 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille d'argent.

Une bourse de début d'études de l'Université d'Ottawa d'une valeur de 1 000 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille de bronze.

Om Agarwal [16] – Halifax NS

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Manning Whitby [18] – Toronto ON

An Interpretation of Life Through Vibration Motors

Peter Zhu [16] – South-East New Brunswick NB

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Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Bourse d'admission de l'Université d'Ottawa

Médaille d'argent, sénior - Bourse d'admission de 2 000 \$

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Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



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Matthew Zhou [17] – Thames Valley ON
Effects of BMI and SSRI Use on Inflammation in Adolescents with Mood Disorders

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Une bourse de début d'études de l'Université d'Ottawa d'une valeur de 1 000 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille de bronze.

Ahmad Ali [17] – Windsor ON
SignSMART V.2

Hamdi Ali [17] – Edmonton AB
Diamonds in the Rough: Maximizing Diamond Recovery

Nicolas Allard [17] – Saguenay-Lac Saint-Jean QC
Robot au service du ping-pong

Mokhtar Beldjilali [16] – Districts francophones du Nouveau-Brunswick NB
Friperie Marie-Esther : ressortez votre style

Brent Charron [16] – Windsor ON
Slip Prevention System Using Tribometric, Light, Moisture, and Temperature Sensors

Ally Churko [16] – Prairie Valley SK
Can Transgenerational Epigenetics be Shown in Eisenia fetida?

Julia Cross [16] – Northwestern Ontario ON
Analysis of Canine Musculoskeletal Injuries from Sled Dog Harness Designs

Milo Eirew [15] – Greater Vancouver BC
The Hydrocyclic Cell – A Novel Improved-Efficiency Fuel Cell

Anika Garg [16] – Thames Valley ON
Developing a Self-Sensing Actuator for Use in Wearable Rehabilitation Devices

Tara Gover [16] – North-West New Brunswick NB
Thermoelectricity: Powering the Ships of Tomorrow

Lénárd Grossmann [15] – Edmonton AB
Intelligent Architecture – Can AI predict architecture that makes us happy?

Christina Hanna [16] – Bay Area ON
Eco-Friendly Solutions Preventing Redox Reactions for Economic Sustainability

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



James Iansavitchous [17] – Thames Valley ON
B-ALL Leukemia Treatment: Exploiting Dependency on ROS to Prevent Proliferation

Juliana Koen Alonso [17] – Eastern Newfoundland NL
The Effect of the Engrailed Gene & TGF Beta on the Migration of Ovarian Cancer

Samuel Lefrançois [17], **Cloé Robichaud** [17] – Districts francophones du Nouveau-Brunswick NB
L'impact des routes sur les forêts

Laurence Liang [17] – Montréal RM QC
La régénération neuronale assistée par un modèle informatique

Oana Binder [17], **Josh Lien** [16] – Waterloo-Wellington ON
ViraDose: A Novel Application for Facilitating Gene Therapy Dosing

Monica Mahut [16] – Bay Area ON
Elevator to Everywhere

Cyril Mani [18] – Montréal RM QC
Democratizing Aerospace Technologies: A Novel Approach to Space R&D

Áine Pucchio [16] – Thames Valley ON
A Pineapple a Day Keeps the Doctor Away – It's Not So Difficile

Crystal Radinski [18] – Calgary Youth AB
EEG Coherence as BioMarker for Alzheimer's Dementia

Rosemund Ragetli [17] – St. James-Assiniboia MB
An Economically Plausible Reduction of Food Wastage in Kenya

Devarsh Shah [16] – Lambton County ON
A Novel Dielectrophoretic-Based Separation System for Cell Identification

Aiden Simard [18] – Western Manitoba MB
Adolescent Anxiety and Social Media

Abby Snodgrass [17] – South-East New Brunswick NB
Interoceptive Awareness and the Novel Use of VR with Arduino Based Sensors

Abdulahman Tawhid [18] – Cariboo/Mainline BC
Extensive Development of Statistical Models to Predict Future Health Care Trends

Kyra Taylor [18] – Northern British Columbia BC
Keeping the Balance: The Correlation Between Diet and pH in the Equine Hindgut

Nattan Telmer [16] – Vancouver Island BC
A Flexible TEG Prototype (FlexiTEG) for Wearable Electronics

Anna Tymofyeyeva [16] – York ON
An Integrated Glucose Meter Using Sweat Diagnostic Technology for Diabetics

Laura Wang [16] – Greater Vancouver BC
Endotoxin's Association with Wheeze and Atopy

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Bourse d'admission de l'Université du Nouveau-Brunswick

Médaille d'or – Bourse d'admission de 5 000 \$

Parrainé par: Université du Nouveau-Brunswick

Une bourse de début d'études d'une valeur de 5000 \$ à l'UNB est offerte à chaque finaliste sénior se voyant remettre une médaille d'or.

Une bourse de début d'études d'une valeur de 2 500 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille d'argent..

Les lauréates et lauréats doivent commencer un programme de premier cycle à temps plein à l'UNB à l'automne 2019 ou 2020.

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Peter Zhu [16] – South-East New Brunswick NB

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Bourse d'admission de l'Université du Nouveau-Brunswick

Médaille d'argent – Bourse d'admission de 2 500 \$

Parrainé par: Université du Nouveau-Brunswick

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A Fibonacci Solution – Mitigating Landslides and Avalanches (v2)

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Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



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- Sarah Choi** [16], **Neelah Hassanzadeh** [16] – Fraser Valley BC
BSFL Frass: Improving Plant Health While Minimizing Environmental Impact
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Activating Insulin Receptors in Fruit Fly Larvae Decreases Movement
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- Sébastien Girard** [17] – Outaouais QC
Correction assistée
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Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Bourse d'admission de l'Université du Manitoba

Médaillé d'or, sénior - Bourse d'admission de 5 000 \$

Parrainé par: Université du Manitoba

Le bureau du vice-président de la recherche de l'Université du Manitoba offre une bourse de début d'études renouvelable pour les finalistes seniors se voyant remettre une médaille d'or lors de l'Expo-sciences pancanadienne de Sciences jeunesse Canada.

La bourse est renouvelable, d'une même valeur, pour la seconde année d'études universitaires à condition que le récipiendaire :

1. continue à être inscrit à temps plein (minimum de 24 heures-crédits) dans l'une quelconque des facultés ou des écoles, sauf la faculté des études supérieures;

Om Agarwal [16] – Halifax NS

DetectTimely

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Smart Photo-Active Trojan Horse Nanoparticle for Alzheimer's Vascular Therapy

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An Interpretation of Life Through Vibration Motors

Peter Zhu [16] – South-East New Brunswick NB

Development of an AI-Based Acute Promyelocytic Leukemia Classification System

Prix d'admission en sciences de UBC (Vancouver)

Médaillé d'or, sénior - Bourse d'admission de 4 000 \$

Parrainé par: The University of British Columbia (Vancouver)

Une bourse de début d'études en sciences de UBC est offerte : d'une valeur de 4 000 \$ à chaque médaillé sénior se voyant remettre une médaille d'or; et d'une valeur de 2 000 \$ à chaque sénior se voyant remettre une médaille d'argent. Pour recevoir ces bourses, les finalistes doivent être acceptés par la Faculté des sciences de UBC (campus de Vancouver) et s'inscrire immédiatement après avoir terminé leur dernière année d'études du secondaire (hors Québec) ou du collégial (Québec). Les lauréates et lauréats qui ne sont pas encore dans leur dernière année d'études peuvent reporter leur prix d'un an.

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Bourses d'admission de la Faculté des sciences de l'Université Dalhousie

Médaille d'or, sénior - Bourse d'admission de 5 000 \$

Parrainé par: Université Dalhousie, Faculté des sciences

Une bourse de début d'études de la Faculté des sciences de l'Université Dalhousie d'une valeur de 5 000 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille d'or. Une bourse de début d'études de la Faculté des sciences de l'Université Dalhousie d'une valeur de 2 500 \$ est offerte à chaque finaliste sénior se voyant remettre une médaille d'argent.

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Bourses d'admission de la Faculté des sciences de l'Université Dalhousie

Médaille d'argent, sénior - Bourse d'admission de 2 500 \$

Parrainé par: Université Dalhousie, Faculté des sciences

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Prix d'excellence - Sénior

Médaille d'or

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Médaille et un certificat

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Prix d'excellence - Intermédiaire

Médaille d'or

Parrainé par: Sciences jeunesse Canada
Médaille et un certificat

Sophie Hoye Pacholek [15] – Calgary Youth AB
From Sea and Sky: Biomimetic Wings for Enhanced Aircraft Performance

Daniel Kornyló [15] – Northern Vancouver Island BC
The Development of a Research Tool to Improve Snake Husbandry

Bhavya Mohan [16] – Ottawa ON
Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Harry Parmar [15] – York ON
Synthetic Violacein: The Power of Designer Pharmaceuticals in the Real World

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Juliette Quirion [15] – Estrie QC

Dessine-moi un mouton

Ali Rizvi [15] – Regina SK

Detecting Exoplanets Using Supervised Machine Learning

Emily Robb [16] – Western Manitoba MB

Grow Big or Grow Home: The Roots to Hydroponic Success

Monis Sayyid [14], **Jack Sloan** [15] – Rideau-St. Lawrence ON

The Windfall Solution: An Alternative Winter Road Treatment

Claire Scrimini [16], **Vanessa Scrimini** [16] – Greater Vancouver BC

Algae Meets Fungi: Microalgae-Fungi Co-Pelletization for Biofuel Production

Nethra Wickramasinghe [15] – Sudbury ON

A Novel Neuropsychiatric Wearable System Using Cognitive Behavioural Therapy

Prix d'excellence - Junior

Médaille d'or

Parrainé par: Sciences jeunesse Canada

Médaille et un certificat

Antoine Blais [14] – Estrie QC

OMG, des insectes!

Jordan Fergani [14], **Edward Xiong** [14] – Sudbury ON

A.T.L.A.S.T: Auto Temperature Live Alert System Thermometer

Islay Graham [13] – Bluewater ON

Rake Wrack Risk: Do Piping Plovers Prefer a Clean Beach?

Lucas Hilden [13] – Annapolis Valley NS

The New Solution for Facial Blindness

Christopher Lamont [13] – Bay Area ON

Creation of an Intravenous Fluid Administration System for Low Income Countries

Krish Modi [14] – Lambton County ON

'No to Photo' – My Photo Consent

Bruce Porter [14] – Yukon/Stikine YT

Pristine Waters: A Pioneering Project in Yukon River Microplastic Research

Anthony Saturnino [13] – Bay Area ON

Eave 7.0: An Autonomous Robotic Eavestrough Cleaner

Neila Selouani [13] – Districts francophones du Nouveau-Brunswick NB

ARim : un nouvel outil d'aide pour le diagnostic de la rétinopathie diabétique

Callum Yoker [13] – Windsor ON

Manipulating Microbial Membrane Permeability to Dyes

Prix d'excellence - Sénior

Médaille d'argent

Parrainé par: Sciences jeunesse Canada

Médaille et un certificat

Yaseen Abbas [16] – York ON

Anthocyanins: A Natural Deterrent to Carcinogenesis

Hadi Almalki [16] – Waterloo-Wellington ON

Random Forest Classification of Histopathological Images

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



-
- Teryl Bates** [16] – Central Okanagan BC
A Fibonacci Solution – Mitigating Landslides and Avalanches (v2)
-
- Charley Cai** [18] – Greater Vancouver BC
Chagas Disease: Decoding Vector-Based Pathogen Recognition
-
- Sarah Choi** [16], **Neelah Hassanzadeh** [16] – Fraser Valley BC
BSFL Frass: Improving Plant Health While Minimizing Environmental Impact
-
- Sarah Chun** [17] – Thames Valley ON
Effect of COX-1 Inhibition on Tumour Organoids Using SC-560
-
- Fuyang Deng** [16] – Northwestern Ontario ON
Nipigon River Landslides: A Study of Soil Moisture on the Risk of Slope Failure
-
- Zoe Gagnon** [18] – Niagara ON
Activating Insulin Receptors in Fruit Fly Larvae Decreases Movement
-
- Sébastien Girard** [17] – Outaouais QC
Correction assistée
-
- Julien-Pierre Houle** [16] – Estrie QC
Transition près du zéro absolu
-
- Jesse Lee** [16] – Calgary Youth AB
Protein Based Biosensor: Roadside Detection of THC
-
- Monica Aida Lopez** [16] – Calgary Youth AB
Lessening Allergic Activities of Lipid Transfer Proteins in Plant Tissue
-
- Stephen Lu** [17] – Montréal RM QC
Emergence, une approche statistique pour optimiser la salle d'urgence
-
- Jacqueline Mansiere** [17] – Central Okanagan BC
'Sensing' Health Improvement: How Auditory Input Can Impact Our Health
-
- Ahmed Nadeem** [16] – York ON
A Novel Approach to Alleviate Oxidative Stress in Daphnia magna by D-limonene
-
- Dhruv Patel** [15] – Frontenac, Lennox & Addington ON
A Novel Approach to Diagnose Glioblastoma
-
- Shounak Ray** [16] – Calgary Youth AB
A Predictive Diagnosis for Parkinson's Disease Through Machine Learning
-
- David Richard** [17] – Saguenay-Lac Saint-Jean QC
Pi, ça donne quoi ?
-
- Sasha Seufert** [17] – Waterloo-Wellington ON
Delivery of DNA to Stem Cells via Nematocysts
-
- Matthew Zhou** [17] – Thames Valley ON
Effects of BMI and SSRI Use on Inflammation in Adolescents with Mood Disorders
-

Prix d'excellence - Intermédiaire

Médaille d'argent

Parrainé par: Sciences jeunesse Canada
Médaille et un certificat

-
- Mira Bhattacharya** [15] – York ON
An Eco-Friendly Method to Remove Oil and Other Contaminants Using Fruit Peels

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



-
- Kyle Brent** [14] – Greater Vancouver BC
Metallurgy Mayhem
-
- Ethan Chan** [14] – Vancouver Island BC
Protein Problem: A Digitized At-Home Urinalysis Device for Kidney Disease
-
- Wendy Fang** [16] – Greater Vancouver BC
The Pollen GPS
-
- Adelka Felcarek-Hope** [16], **Sofia McVetty** [16] – Montreal QC
The Poly-Phaeophyceae Method
-
- Erica Forsythe** [15] – Sunset Country ON
Medicine in My Backyard
-
- Amy Gudmundson** [15] – Western Manitoba MB
Le système flash de surveillance du glucose et la dermatite – l'enquête débute !
-
- Graeme Hopkins** [14] – Ottawa ON
A Taphonomic Comparison of Two Ordovician Fossil Assemblages
-
- Etienne Joulin** [16] – Thames Valley ON
Identification of Genetic Similarities between Parasites and Hosts Using CGR
-
- Guntaas Kaur** [15] – Peel ON
Insights into Cytokinin Functions: Characterizing Arabidopsis thaliana Mutants
-
- Raphael Kelly** [14] – Calgary Youth AB
Utilizing GIS and Data Analysis to Assess Human Impact on Migratory Bird Species
-
- Abby Mattina** [15] – Toronto ON
Time to Switch to Switchgrass Bedding?
-
- Adam Patton** [15] – Cariboo/Mainline BC
The Power of Hydrogen
-
- Hayden Persad** [15] – West Kootenay & Boundary BC
Using Potato Peel Waste as a Polymer Source in the Creation of a Bioplastic
-
- Hajeong Seo** [15] – Montreal QC
Fog On, Fog Off
-
- Syni Solanki** [15] – Peel ON
Modification of Nuclear Architecture in Hodgkin's Lymphoma due to Lamin A/C
-
- Graydon Strachan** [14] – Winnipeg Schools MB
MAC-2: Estimation of Weight Using a Modified Blood Pressure Cuff
-
- Anna Voia** [16] – Montréal RM QC
Ensemble contre la résistance
-
- Kerry Yang** [14] – Sudbury ON
Weeding Out the Secret to Antibiotic Resistance
-
- Jessica Yemen** [15] – Renfrew County ON
Taking Flight: Monarch Butterfly Conservation

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Prix d'excellence - Junior

Médaille d'argent

Parrainé par: Sciences jeunesse Canada
Médaille et un certificat

Rya Adronov [14] – Bay Area ON

Ti-Dye Energy: Natural Dye Combinations in Dye-Sensitized Solar Cells

Anna Chandler Merlo [12] – Ottawa ON

Which is the Best Alternative to Paraffin Wax: Beeswax, Soy, Palm or Coconut Wax

Maisie Cottrill [14] – Bluewater ON

Pi in the Sky: A Sustainable, Web-Based, Automated Greenhouse

Gaia Fameli [14] – Greater Vancouver BC

Nailing (the Issue with) Nail Polish

Aaryan Harshith [13] – Renfrew County ON

Using Artificial Intelligence to Diagnose Diabetes Early

Kiera Hui [13] – Toronto ON

Can Cotton Textiles be used to Clean Up Oil Spills

Jeffrey Klinck [14] – Bay Area ON

Using BCI and AI to Detect Emotions for Mental Health Applications

Shayan Mahmood [12] – Thames Valley ON

DeepWave: Cardiac Arrhythmia Diagnosis Using a Deep Learning ECG System

Mikko Lorico [14], **Deven Marrero** [13] – South Fraser BC

AutoParkade: Could this solve long parking wait times?

Davin Martin [13] – Calgary Youth AB

Mealworms – A Way to Reduce Styrofoam!

Hollis Mattson [12] – Northern British Columbia BC

Underwater Soundscape

Jannah McCallum [12] – Prince Edward Island PE

Weeding Out the Alternatives: Is Cinnamon an Herbicide?

Joe Moak [13], **Davis Nicholson** [13] – Prince Edward Island PE

Ready Set Grow: A guide to Better Microgreens

Annika Paliwal [13] – Manitoba Schools Science Symposium MB

Determining Cognitive Abilities of Individuals through Associative Memory Games

Emma Palmer [13] – Simcoe County ON

Northern NEW-tritron

Reid Pidsadowski [13] – Edmonton AB

Diesel From the Field

Shaun Plassery [14] – Peterborough ON

Slick Sorbents for Cleaning Up Ocean Oil Spills Using Hair, Wool and Jute

Patricia Rea [13] – York ON

BioGrade Yeast: Biomanufacturing with Antifreeze-Yeast on Mars

Hardit Singh [13] – Waterloo-Wellington ON

FoodSpec – A Multispectral Detector for Non-Destructive Testing of Food

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Mohammed Torkmani [14], Raphael Xu [14] – Bay Area ON
Plastic Delicacies: The Consumption and Biodegradation of Polystyrene by

Prix d'excellence - Senior

Médaille de bronze

Parrainé par: Sciences jeunesse Canada

Médaille et un certificat

Ahmad Ali [17] – Windsor ON

SignSMART V.2

Hamdi Ali [17] – Edmonton AB

Diamonds in the Rough: Maximizing Diamond Recovery

Nicolas Allard [17] – Saguenay-Lac Saint-Jean QC

Robot au service du ping-pong

Mokhtar Beldjilali [16] – Districts francophones du Nouveau-Brunswick NB

Friperie Marie-Esther : ressortez votre style

Brent Charron [16] – Windsor ON

Slip Prevention System Using Tribometric, Light, Moisture, and Temperature Sensors

Ally Churko [16] – Prairie Valley SK

Can Transgenerational Epigenetics be Shown in Eisenia fetida?

Julia Cross [16] – Northwestern Ontario ON

Analysis of Canine Musculoskeletal Injuries from Sled Dog Harness Designs

Milo Eirew [15] – Greater Vancouver BC

The Hydrocyclic Cell – A Novel Improved-Efficiency Fuel Cell

Anika Garg [16] – Thames Valley ON

Developing a Self-Sensing Actuator for Use in Wearable Rehabilitation Devices

Tara Gover [16] – North-West New Brunswick NB

Thermoelectricity: Powering the Ships of Tomorrow

Lénárd Grossmann [15] – Edmonton AB

Intelligent Architecture – Can AI predict architecture that makes us happy?

Christina Hanna [16] – Bay Area ON

Eco-Friendly Solutions Preventing Redox Reactions for Economic Sustainability

James Iansavitchous [17] – Thames Valley ON

B-ALL Leukemia Treatment: Exploiting Dependency on ROS to Prevent Proliferation

Juliana Koen Alonso [17] – Eastern Newfoundland NL

The Effect of the Engrailed Gene & TGF Beta on the Migration of Ovarian Cancer

Samuel Lefrançois [17], Cloé Robichaud [17] – Districts francophones du Nouveau-Brunswick NB

L'impact des routes sur les forêts

Laurence Liang [17] – Montréal RM QC

La régénération neuronale assistée par un modèle informatique

Oana Binder [17], Josh Lien [16] – Waterloo-Wellington ON

ViraDose: A Novel Application for Facilitating Gene Therapy Dosing

Monica Mahut [16] – Bay Area ON

Elevator to Everywhere

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Cyril Mani [18] – Montréal RM QC

Democratizing Aerospace Technologies: A Novel Approach to Space R&D

Áine Pucchio [16] – Thames Valley ON

A Pineapple a Day Keeps the Doctor Away – It's Not So Difficile

Crystal Radinski [18] – Calgary Youth AB

EEG Coherence as BioMarker for Alzheimer's Dementia

Rosemund Ragetli [17] – St. James-Assiniboia MB

An Economically Plausible Reduction of Food Wastage in Kenya

Devarsh Shah [16] – Lambton County ON

A Novel Dielectrophoretic-Based Separation System for Cell Identification

Aiden Simard [18] – Western Manitoba MB

Adolescent Anxiety and Social Media

Abby Snodgrass [17] – South-East New Brunswick NB

Interoceptive Awareness and the Novel Use of VR with Arduino Based Sensors

Abdallahman Tawhid [18] – Cariboo/Mainline BC

Extensive Development of Statistical Models to Predict Future Health Care Trends

Kyra Taylor [18] – Northern British Columbia BC

Keeping the Balance: The Correlation Between Diet and pH in the Equine Hindgut

Nattan Telmer [16] – Vancouver Island BC

A Flexible TEG Prototype (FlexiTEG) for Wearable Electronics

Anna Tymofyeyeva [16] – York ON

An Integrated Glucose Meter Using Sweat Diagnostic Technology for Diabetics

Laura Wang [16] – Greater Vancouver BC

Endotoxin's Association with Wheeze and Atopy

Prix d'excellence - Intermédiaire

Médaille de bronze

Parrainé par: Sciences jeunesse Canada

Médaille et un certificat

Sparsh Agrawal [16] – Manitoba Schools Science Symposium MB

Improving Current Stock-Trading Infrastructure Using a Blockchain Network

Momin Anwar [15] – Eastern Newfoundland NL

Improving Bioplastics Properties by Incorporating Hydrophobic Materials

Bridgit Bennett-Delorme [15] – Renfrew County ON

CPR Model #2

Ethan Breit [16] – Toronto ON

Performant GPU Pathtracing

Abby Chapman [16] – Prince Edward Island PE

Temperature Dependent Approach to Enhance Drug Discovery from Bacteria

Ryan Churchill [16] – Tri-County NS

Phone 2 Phone

Lucas Crupi [15] – Northwestern Ontario ON

Spectrophotometry for Concentration Testing on E. coli Using Relative Absorbance

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Fletcher Dares [14] – Beaufort-Delta NT <i>The Effects of Low Earth Orbit on Digital Displays</i>
Catherine Diyakonov [14] – Greater Vancouver BC <i>Developing Bioplastic Walls: Reducing Waste and Restoration Costs After Floods</i>
Megan Downe [16], Avery Nicholson [15] – 4-H Canada PE <i>Ulva lactuca: Subcritical Water and Supercritical CO2 Extractions</i>
Aeryn Eastwood [14] – Halifax NS <i>Garbage to Gucci: A Novel Approach to Producing an Eco-Friendly Leather</i>
Shreya Gandhi [15] – Vancouver Island BC <i>Smarticle Particles: Laser-absorbing gold nanoparticle solution for airplanes</i>
Emily Goodson [15], Nikki van Schaik [14] – Simcoe County ON <i>Comparing the Effects of Aerobically Decomposed Waste on Plant Development</i>
Sarah Grieves [16] – Manitoba First Nations MB <i>Soil Contamination in Oxford House</i>
Hillary Huynh [16] – Yellowknife NT <i>Physiognomy Retention</i>
Pasha Jones [15], Adrianna Vutrano [15] – Montreal QC <i>Portable House</i>
Jessica Lee [15] – Halifax NS <i>Are 'Eco-Friendly' Detergents Really More Eco-Friendly?</i>
Hana Haytaoglu [16], Hannah MacAusland [16] – Peterborough ON <i>Preparation, Property Testing, and Applications of Bioplastic</i>
Grace Marion [14] – Windsor ON <i>Do Walleye Fish in Lake Erie Show Presence of Mercury?</i>
Dana Mavrow [16] – Vancouver Island BC <i>Reused Christmas Trees: Creating a Biodiesel from Pine Needles</i>
Rohan Mehta [14] – Simcoe County ON <i>Automating the Detection and Probability of Wildfires – Tapio</i>
Jodh Singh Nahal [15] – Cariboo/Mainline BC <i>Optimizing MFCs With a Novel Approach and Controlling Eutrophication</i>
Francois Marais [15], Caprinder Nanrey [16] – Wood Buffalo AB <i>Security Upgrade</i>
Emilia Oliver [14] – Timmins ON <i>Using Food Waste to Remove Arsenic from Water 2.0 – It's All About Oranges</i>
Rebecca Rathlef [15] – Greater Vancouver BC <i>Natural Products as Potential Sunscreens</i>
Christianne Riveroll [14] – Prince Edward Island PE <i>The Psychology of Colour</i>
Mankeerat Singh Sidhu [15] – South Fraser BC <i>A Hand for Hope</i>
Leila Smaili [14] – Frontenac, Lennox & Addington ON <i>Are Pesticide Formulations Genotoxic?</i>

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Andy Liang [16], Alexander Sun [16] – Greater Vancouver BC
Novel Treatment of Algal Blooms with Viral Transfection and Barley Straw Extract

Wei Xie [15] – Greater Vancouver BC
FireBot: Augmenting Firefighting with AI

Prix d'excellence - Junior

Médaille de bronze

Parrainé par: Sciences jeunesse Canada

Médaille et un certificat

Tavian Augustus [12] – Bay Area ON
Solar Step: Combining Solar Panels and Piezo Cells to Create Clean Electricity

Jaden Balasuriya [13] – Simcoe County ON
Pucksense

Jemma Blattner [13] – Central Interior British Columbia BC
Food Fit for Fairies

Johnathan Campbell [13] – Kivalliq NU
Window Parka

Keanu Chan [12] – East Kootenay BC
HEALIT 3.0 (Hemostasis by Expanding Automatic Life-Saving Innovative Technique)

Ethan Chiang [13] – Bay Area ON
Proteolytic Effect of Fruit Enzyme Homogenate on Different Doneness of Beef

Mitchell Clapperton [13] – Bay Area ON
AeroTronics – A High Pressure Aeroponics System for Sustainable Indoor Agriculture

Mary Clifford [14] – Waterloo-Wellington ON
When Life Gives You Potatoes, Make Plastic

Tristan Davies [12], Ryan Wilson [13] – Halifax NS
Whale of a Problem – An Innovation on North Atlantic Right Whales

Emilia Dyksterhuis [12] – Northern British Columbia BC
Spare Our Air: The Use of Algae Scrubbers in the Oil and Gas Industry

Ava Fischer [13] – Simcoe County ON
Stand Open

Marin Foulds [13], Claire Pasenau [12] – Central Okanagan BC
Spin Stove

Brianna Garvey [12] – Bluewater ON
Don Don Don

Jonathan Goudreault [14] – Peace Country AB
Microwave Manipulation

Samara Green [14], Anaya Permanand [13] – Northern Manitoba MB
Is It Possible to Repurpose Slag from the Nickel Mining Industry?

Sophia Khoury [14] – Toronto ON
Hand Sanitizer and the Elimination of Home and School-Acquired Bacteria

Paul Lee [14] – Bay Area ON
Conserving Momentum with MMDs

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Lucas McDonnell-Hoffert [13] – West Kootenay & Boundary BC
To Be There or Not to Be There... The Case for Vibrant Lines!

Trevor Meek [13] – Sudbury ON
Development of a Timed On-Demand Wireless Heated Washer Fluid System

Luca Ménard [13] – Frontenac, Lennox & Addington ON
Harnessing Nature's Power

Henley Mullins [14] – Eastern Newfoundland NL
Experimental Optimization of a Hybrid Rocket Engine

Adrian Nitu [13] – Ottawa ON
A Novel Artificial Intelligence-Based Approach to Dynamic Traffic Management for

Layla Owens [13] – Conseil scolaire acadien provincial NS
Submergence !

Annabelle Rayson [13] – Lambton County ON
De-Icer Distillery: An Innovative and Environmental Approach to Road Safety

Alexander Rozic [13] – Quinte ON
Do You See What I See?

Lily Smales [14] – Bay Area ON
Convolutional Neural Network to Detect Eyes with Visual Impairment

Rachael Urquhart [12] – Bluewater ON
Calm Your Beating Heart: An Experiment on Ways to Lower Heart Rate

Brooklynn Watson [14] – Northern Vancouver Island BC
CRISPR Cas9 and the Human Genome

Zoe Yee [13] – Edmonton AB
Water My Seeds Doing in Water Beads?

Kevin Liu [14], **Saabir Yousuf** [14] – Saskatoon SK
Economically Feasible Desalination

Médaille d'or - Internationaux

Parrainé par: Sciences jeunesse Canada
Médaille et un certificat

Manaskawin Phupinyokul [18], **Naranya Rujanawech** [17] – Thailand
The Biodegradable Nursery Bags From Agricultural Waste

Médaille de bronze - Internationaux

Parrainé par: Sciences jeunesse Canada
Médaille et un certificat

Emiliano Aguilar González [15], **Camila Cortez Lizarraga** [15] – Mexico
Star-Track: Dark Side of the Stars

Prix du défi - Ressources

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

Hamdi Ali [17] – Edmonton AB
Diamonds in the Rough: Maximizing Diamond Recovery

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Prix du défi - Ressources

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Monis Sayyid [14], Jack Sloan [15] – Rideau-St. Lawrence ON
The Windfall Solution: An Alternative Winter Road Treatment

Prix du défi - Ressources

Parrainé par: Sciences jeunesse Canada
certificat

Antoine Blais [14] – Estrie QC
OMG, des insectes!

Prix du défi - Innovation

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

Manning Whitby [18] – Toronto ON
An Interpretation of Life Through Vibration Motors

Prix du défi - Innovation

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Harry Parmar [15] – York ON
Synthetic Violenin: The Power of Designer Pharmaceuticals in the Real World

Prix du défi - Innovation

Parrainé par: Sciences jeunesse Canada
certificat

Lucas Hilden [13] – Annapolis Valley NS
The New Solution for Facial Blindness

Prix du défi - Information

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

Om Agarwal [16] – Halifax NS
DetectTimely

Prix du défi - Information

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Francois Marais [15], Caprinder Nanrey [16] – Wood Buffalo AB
Security Upgrade

Prix du défi - Information

Parrainé par: Sciences jeunesse Canada
certificat

Lucas McDonnell-Hoffert [13] – West Kootenay & Boundary BC
To Be There or Not to Be There... The Case for Vibrant Lines!

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Prix du défi - Santé

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

Tori Chen [17] – Thames Valley ON

Gene Therapy: A Treatment for Diabetic Cardiomyopathy

Prix du défi - Santé

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Bhavya Mohan [16] – Ottawa ON

Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Prix du défi - Santé

Parrainé par: Sciences jeunesse Canada
certificat

Callum Yoker [13] – Windsor ON

Manipulating Microbial Membrane Permeability to Dyes

Prix du défi - Environnement

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

Rohan Gupta [16] – Vancouver Island BC

Cytogenotoxic Effects of Local Stormwater on Allium cepa L.

Prix du défi - Environnement

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Emily Robb [16] – Western Manitoba MB

Grow Big or Grow Home: The Roots to Hydroponic Success

Prix du défi - Environnement

Parrainé par: Sciences jeunesse Canada
certificat

Islay Graham [13] – Bluewater ON

Rake Wrack Risk: Do Piping Plovers Prefer a Clean Beach?

Prix du défi - Énergie

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

Pakeeza Mushtaq [17] – Southeast Alberta AB

A Novel DSSC Using Bio-Photosensitizer Pigments and Diatom Frustules

Prix du défi - Énergie

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Claire Scrimini [16], **Vanessa Scrimini** [16] – Greater Vancouver BC

Algae Meets Fungi: Microalgae-Fungi Co-Pelletization for Biofuel Production

Récipiendaires des prix

Expo-sciences pancanadienne 2019

Fredericton (Nouveau-Brunswick)



Prix du défi - Énergie

Parrainé par: Sciences jeunesse Canada
certificat

Reid Pidsadowski [13] – Edmonton AB
Diesel From the Field

Prix du défi - Découverte

Sénior

Parrainé par: Sciences jeunesse Canada
certificat

David Richard [17] – Saguenay-Lac Saint-Jean QC
Pi, ça donne quoi ?

Prix du défi - Découverte

Intermédiaire

Parrainé par: Sciences jeunesse Canada
certificat

Etienne Joulin [16] – Thames Valley ON
Identification of Genetic Similarities between Parasites and Hosts Using CGR

Prix du défi - Découverte

Parrainé par: Sciences jeunesse Canada
certificat

Patricia Rea [13] – York ON
BioGrade Yeast: Biomanufacturing with Antifreeze-Yeast on Mars

Bourse d'études pour le camp d'entraînement en entrepreneuriat lié aux STIM de l'Université York

Toutes catégories

Parrainé par: York University, Lassonde School of Engineering

Deux finalistes exceptionnels de l'ESPC de toute catégorie ayant un esprit d'entrepreneuriat ou des projets démontrant un potentiel commercial. Bourse d'études complètes pour participer au Camp d'entraînement lié aux STIM de l'Université York et de Sciences jeunesse Canada à Toronto en août, y compris les frais de déplacement jusqu'à 1 000 \$. Le programme d'une durée d'une semaine est basé sur l'approche d'apprentissage expérientiel « Entrepreneurs en science et technologie Bergeron » (BEST), qui combine les compétences techniques de la création d'une nouvelle entreprise avec des compétences créatives de résolution de problèmes et de réflexion personnelle. Les participants interagissent avec des entrepreneurs prospères et des universitaires de renom de l'école de génie Lassonde, de la Faculté de droit Osgoode et de l'école supérieure de commerce Schulich, ainsi que du personnel et des entreprises du laboratoire BEST. Une valeur totale de 2 500 \$.

Mira Bhattacharya [15] – York ON
An Eco-Friendly Method to Remove Oil and Other Contaminants Using Fruit Peels

Monis Sayyid [14], **Jack Sloan** [15] – Rideau-St. Lawrence ON
The Windfall Solution: An Alternative Winter Road Treatment

Prix de génie de l'Université de Toronto

Sénior

Parrainé par:

Deux projets exceptionnels dans la catégorie sénior par des élèves de 11e année (5e secondaire au Québec) liés au génie et démontrant une solution innovatrice, créative et éprouvée répondant à un problème réel dans le monde.

Om Agarwal [16] – Halifax NS
DetectTimely

Zachary Fraser [17] – Cape Breton NS
Laser Tuner: A Novel Approach to Pitch Detection on a Drumhead

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Bourse de recherche de premier cycle de l'Université d'Ottawa

Sénior

Parrainé par: Université d'Ottawa, Faculté des sciences

La lauréate ou le lauréat travaillera sous l'égide de scientifiques et participera à des découvertes scientifiques importantes pendant deux stages d'été consécutifs. Au cours de l'été précédant sa première année d'études dans un programme de premier cycle à la Faculté des sciences de l'Université d'Ottawa, la lauréate ou le lauréat gagnera 3 750 \$ en tant que chercheur pour un des professeurs de niveau international. En complétant la première année d'études avec succès, l'expérience de recherche sera prolongée lors d'un second stage d'été au cours duquel il ou elle gagnera 6 250 \$.

James Iansavitchous [17] – Thames Valley ON

B-ALL Leukemia Treatment: Exploiting Dependency on ROS to Prevent Proliferation

Prix pour l'innovation Ted Rogers

Toutes catégories

Parrainé par: Rogers Communications Inc.

Bourse afin d'appuyer la participation au camp à l'intention des entrepreneurs en STEM organisé par Sciences jeunesse Canada et l'Université York en août 2019. La bourse comprend les frais de déplacement. Valeur totale de 2 000 \$.

Ethan Chan [14] – Vancouver Island BC

Protein Problem: A Digitized At-Home Urinalysis Device for Kidney Disease

Aeryn Eastwood [14] – Halifax NS

Garbage to Gucci: A Novel Approach to Producing an Eco-Friendly Leather

Kai Leong [18] – Greater Vancouver BC

Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Bhavya Mohan [16] – Ottawa ON

Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Layla Owens [13] – Conseil scolaire acadien provincial NS

Submergence!

Crystal Radinski [18] – Calgary Youth AB

EEG Coherence as BioMarker for Alzheimer's Dementia

Shounak Ray [16] – Calgary Youth AB

A Predictive Diagnosis for Parkinson's Disease Through Machine Learning

Andy Liang [16], **Alexander Sun** [16] – Greater Vancouver BC

Novel Treatment of Algal Blooms with Viral Transfection and Barley Straw Extract

Manning Whitby [18] – Toronto ON

An Interpretation of Life Through Vibration Motors

Prix du Groupe de biostatistique de la Société statistique du Canada

Intermédiaire

Parrainé par: Groupe biostatistique, Société statistique du Canada

750 \$ en argent comptant et un certificat

Etienne Joulín [16] – Thames Valley ON

Identification of Genetic Similarities between Parasites and Hosts Using CGR

Prix de la Société statistique du Canada

Sénior

Parrainé par: Société statistique du Canada

1 000 \$ en argent comptant et un certificat

Abdallah Tawhid [18] – Cariboo/Mainline BC

Extensive Development of Statistical Models to Predict Future Health Care Trends

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Bourses d'étude SHAD

Intermédiaire

Parrainé par: SHAD

Chaque année, SHAD permet à plus de 750 élèves de partout au Canada et à l'étranger d'assister à un programme d'été d'une durée d'un mois, en résidence, dans une université canadienne axée sur les STIAM (sciences, technologie, ingénierie, arts et mathématiques).

Penelope Armstrong [14] – Qikiqtaaluk NU

What's in Your Water?

Tamara Chisholm [15] – Sahtu NT

Seed BioEssays

Amy Gudmundson [15] – Western Manitoba MB

Le système flash de surveillance du glucose et la dermatite – l'enquête débute !

Prix S.M. Blair Family Foundation

Sénior

Parrainé par: S.M. Blair Family Foundation

1 000 \$ en argent comptant et un certificat

Kai Leong [18] – Greater Vancouver BC

Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Prix S.M. Blair Family Foundation

Intermédiaire

Parrainé par: S.M. Blair Family Foundation

750 \$ en argent comptant et un certificat

Catherine Diyakonov [14] – Greater Vancouver BC

Developing Bioplastic Walls: Reducing Waste and Restoration Costs After Floods

Prix S.M. Blair Family Foundation

Parrainé par: S.M. Blair Family Foundation

500 \$ en argent comptant et un certificat

Christopher Lamont [13] – Bay Area ON

Creation of an Intravenous Fluid Administration System for Low Income Countries

Prix de l'énergie renouvelable

Sénior

Parrainé par: Ontario Power Generation

1 000 \$ en argent comptant et un certificat

Pakeeza Mushtaq [17] – Southeast Alberta AB

A Novel DSSC Using Bio-Photosensitizer Pigments and Diatom Frustules

Prix de l'énergie renouvelable

Intermédiaire

Parrainé par: Ontario Power Generation

750 \$ en argent comptant et un certificat

Jodh Singh Nahal [15] – Cariboo/Mainline BC

Optimizing MFCs With a Novel Approach and Controlling Eutrophication

Prix de l'énergie renouvelable

Parrainé par: Ontario Power Generation

500 \$ en argent comptant et un certificat

Reid Pidsadowski [13] – Edmonton AB

Diesel From the Field

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Prix de la fondation « Nutriments pour la vie »

Intermédiaire

Parrainé par: Nutrients for Life Foundation Canada
750 \$ en argent comptant et un certificat

Emily Robb [16] – Western Manitoba MB
Grow Big or Grow Home: The Roots to Hydroponic Success

Prix de l'École d'été internationale pour les jeunes physiciens

Sénior

Parrainé par: l'Institut Périmètre pour la physique théorique
Le prix consiste en une bourse complète pour participer à l'École d'été internationale pour les jeunes physiciens 2019 (ISSYP 2019) du 14 au 27 juillet, un programme intensif avancé de deux semaines qui présentera à l'élève l'image fascinante de notre univers tel qu'il est vu par les physiciens contemporains : du monde quantique bizarre des atomes et des particules subatomiques aux trous noirs, de la distorsion du temps et de l'espace à l'expansion de l'univers. L'élève rencontrera des physiciens professionnels à l'Institut Périmètre au cours de séances de mentorat conçues pour de petits groupes, fera des excursions dans des laboratoires de science expérimentale de premier plan, et se liera d'amitié avec des jeunes gens ayant les mêmes goûts qu'eux et venant du monde entier. La bourse comprend le coût du logement, des repas et du voyage à destination et en provenance de l'Institut. Valeur totale de 3 500 \$.

Kai Leong [18] – Greater Vancouver BC
Smartphone-Based Gait Analysis: A Boon for Disease Diagnosis

Prix « Intact » pour la résilience aux changements climatiques

Sénior

Parrainé par: Intact Corporation financière
Une somme de 1 000 \$ en argent comptant et un certificat ainsi qu'un voyage toutes dépenses payées à Waterloo (Ontario), au cours de l'été 2019, pour visiter le Centre Intact sur l'adaptation au changement climatique à l'Université de Waterloo, le plus important centre de recherche sur la résilience aux changements climatiques. Une valeur de 2 500 \$.

Cynthia Cui [15], **Leonardo Cui** [17] – North-West New Brunswick NB
An Innovative Flood Prediction System Using Improved Machine Learning Approach

Prix « Intact » pour la résilience aux changements climatiques

Intermédiaire

Parrainé par: Intact Corporation financière
750 \$ en argent comptant et un certificat

Rohan Mehta [14] – Simcoe County ON
Automating the Detection and Probability of Wildfires – Tapio

Prix « Intact » pour la résilience aux changements climatiques

Junior

Parrainé par: Intact Corporation financière
500 \$ en argent comptant et un certificat

Maggie Hollett [13] – Quinte ON
Sunny Side Up

Prix des 4-H du Canada — Agriculture durable

Parrainé par: 4-H du Canada
500 \$ en argent comptant et un certificat

Emma Palmer [13] – Simcoe County ON
Northern NEW-trition

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Prix des 4-H du Canada — Sécurité alimentaire

Parrainé par: 4-H du Canada
500 \$ en argent comptant et un certificat

Antoine Blais [14] – Estrie QC
OMG, des insectes!

Prix de First Nations University of Canada (Université des Premières Nations du Canada) Junior

Parrainé par: First Nations University of Canada
500 \$ en argent comptant et un certificat

Maria Alex [13] – Mi'kmaq Schools NS
Respond to My Language

Prix d'excellence en astronomie

Intermédiaire

Parrainé par: La Société royale d'astronomie du Canada
Un télescope, un certificat et un abonnement d'un an à la SRAC.

Ali Rizvi [15] – Regina SK
Detecting Exoplanets Using Supervised Machine Learning

Prix d'excellence en astronomie

Parrainé par: La Société royale d'astronomie du Canada
Un télescope, un certificat et un abonnement d'un an à la SRAC.

Patricia Rea [13] – York ON
BioGrade Yeast: Biomanufacturing with Antifreeze-Yeast on Mars

Prix de l'innovation en génie

Intermédiaire

Parrainé par: L'Institut canadien des ingénieurs
750 \$ en argent comptant et un certificat

Ethan Chan [14] – Vancouver Island BC
Protein Problem: A Digitized At-Home Urinalysis Device for Kidney Disease

Prix Carlson Wagonlit

Parrainé par: Carlson Wagonlit Travel
500 \$ en argent comptant et un certificat

Lucas McDonnell-Hoffert [13] – West Kootenay & Boundary BC
To Be There or Not to Be There... The Case for Vibrant Lines!

Prix en physique de l'ACP

Sénior

Parrainé par: Association canadienne des physiciens et physiciennes
1 000 \$ en argent comptant et un certificat.

Cyril Mani [18] – Montréal RM QC
Democratizing Aerospace Technologies: A Novel Approach to Space R&D

Prix en physique de l'ACP

Intermédiaire

Parrainé par: Association canadienne des physiciens et physiciennes
750 \$ en argent comptant et un certificat

Jarek Osika [15] – Northern Manitoba MB
Radio Eyes – Blackhole Hunter

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Prix en physique de l'ACP

Junior

Parrainé par: Association canadienne des physiciens et physiciennes
500 \$ en argent comptant et un certificat

Krish Modi [14] – Lambton County ON

'No to Photo' – My Photo Consent

Prix du jeune chercheur canadien

Sénior

Parrainé par: Éditions Science Canada et « STEM Fellowship »
Le projet sera soumis à un examen par les pairs et bénéficiera de conseils du comité éditorial de la revue STEM Fellowship, un processus qui aboutira à la publication du projet dans la revue STEM Fellowship des Éditions Sciences Canada, le plus important éditeur scientifique au Canada.

Charley Cai [18] – Greater Vancouver BC

Chagas Disease: Decoding Vector-Based Pathogen Recognition

Muhammad Shahzad [16] – Edmonton AB

Pomelo and Chinese Bayberry Extracts Protect Mouse β Cells from Oxidative Stress

Laura Wang [16] – Greater Vancouver BC

Endotoxin's Association with Wheeze and Atopy

Prix du concours junior canadien au sujet de l'eau, à Stockholm

Sénior

Parrainé par: Les associations membres canadiennes de la WEF, l'Association canadienne des eaux potables et
Un voyage toutes dépenses payées à Stockholm (Suède), du 24 au 30 août 2019, pour l'élève ou les élèves
du projet gagnant afin de représenter le Canada au Concours junior international au sujet de l'eau, à
Stockholm. www.sjwp.ca

Annie Bloomfield [18], **Malcolm Cameron** [17] – Strait NS

Grey is the Way: Developing a Residential Greywater Treatment

Rohan Gupta [16] – Vancouver Island BC

*Cytogenotoxic Effects of Local Stormwater on *Allium cepa* L.*

Emily Mah [16], **Jazlyn McGuinty** [16] – North Bay ON

Bannin' with Tannins: A Heavy Metal Extraction Process for Contaminated Water

Prix de la Société canadienne des clinico-chimistes

Sénior

Parrainé par: La Société canadienne des clinico-chimistes
1 000 \$ en argent comptant et un certificat

Muhammad Shahzad [16] – Edmonton AB

Pomelo and Chinese Bayberry Extracts Protect Mouse β Cells from Oxidative Stress

Prix de l'Association canadienne d'acoustique

Sénior

Parrainé par: L'Association canadienne d'acoustique
1 000 \$, en argent comptant, un certificat et un abonnement au périodique trimestriel de l'Association
canadienne de l'acoustique.

Zachary Fraser [17] – Cape Breton NS

Laser Tuner: A Novel Approach to Pitch Detection on a Drumhead

Récipiendaires des prix

Expo-sciences pancanadienne 2019 Fredericton (Nouveau-Brunswick)



Prix du Centre Beaty pour la découverte des espèces

Sénior

Parrainé par: Musée canadien de la nature

1 000 \$ en argent, certificat et adhésion familiale du Musée canadien de la nature pour un an

Jacob Bowman [17] – Peterborough ON

Can freshwater stream invertebrates adapt to road salt?

Prix de La Fondation actuarielle du Canada

Sénior

Parrainé par: La fondation actuarielle du Canada

1 000 \$ en argent comptant et un certificat

Stephen Lu [17] – Montréal RM QC

Emergence, une approche statistique pour optimiser la salle d'urgence

Prix de La Fondation actuarielle du Canada

Intermédiaire

Parrainé par: La fondation actuarielle du Canada

750 \$ en argent comptant et un certificat

Graydon Strachan [14] – Winnipeg Schools MB

MAC-2: Estimation of Weight Using a Modified Blood Pressure Cuff

Prix de La Fondation actuarielle du Canada

Parrainé par: La fondation actuarielle du Canada

500 \$ en argent comptant et un certificat

Aaryan Harshith [13] – Renfrew County ON

Using Artificial Intelligence to Diagnose Diabetes Early

European Union Contest for Young Scientists

Parrainé par: La Fondation Gwyn Morgan et Patricia Trottier

Bhavya Mohan [16] – Ottawa ON

Taking ABiTE out of Cancer: A Novel Aptamer based BiTE for Cancer

Manning Whitby [18] – Toronto ON

An Interpretation of Life Through Vibration Motors

Parrainé par: Broadcom Foundation

Islay Graham [13] – Bluewater ON

Rake Wrack Risk: Do Piping Plovers Prefer a Clean Beach?