

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix de La Fondation actuarielle du Canada

Junior

Sponsor: La fondation actuarielle du Canada
500 \$ en argent comptant et un certificat

Stephanie Christle – Bison – MB

Food for the North; Sustainable Farming for Indigenous communities negatively affected by climate change

Prix de La Fondation actuarielle du Canada

Intermédiaire

Sponsor: La fondation actuarielle du Canada
750 \$ en argent comptant et un certificat

Derek Sheen – Waterloo-Wellington – ON

A Novel Approach to Detecting Melanoma Using Deep Learning

Prix de La Fondation actuarielle du Canada

Sénior

Sponsor: La fondation actuarielle du Canada
1 000 \$ en argent comptant et un certificat

Koral Kulacoglu, Louis Wu – York – ON

FourSight: Analysis of Cancerous Genetic Profiles With Artificial Neural Networks

Prix du Centre Beaty pour la découverte des espèces

Sénior

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

Annabelle Rayson – Lambton County – ON

Plankton Wars: An Innovative Analysis of Daphnia Genotype Biomanipulation for Algae Bloom Prevention

Prix du magazine Brainspace

Junior

Sponsor: Brainspace Magazine
500 \$ en argent comptant et un certificat

Olivier Lafleur – Bluewater – ON

Les plantes, des ordinateurs quantiques?

Prix de l'Association canadienne d'acoustique

Sénior

Sponsor: 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

Mac Dykeman – 4-H Canada – CA

A Simple, Scalable Method For Reducing Stress In Chicks During The First Seven Days Post Hatch.

Prix de la Société canadienne de météorologie et d'océanographie et de Météomédia

Sénior

Sponsor: Canadian Meteorological and Oceanographic Society & Pelmorex Corp.
1 000 \$ en argent comptant et un certificat

Annabelle Rayson – Lambton County – ON

Plankton Wars: An Innovative Analysis of Daphnia Genotype Biomanipulation for Algae Bloom Prevention

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix de la Société canadienne des clinico-chimistes

Sénior

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

Dheiksha Jayasankar – Niagara – ON

Smiglaside-C Part 2: Developing Hydrogel Films from A.muricata Extracts for Wound Healing Purposes

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

Sénior

Sponsor: Les associations membres canadiennes de la WEF, l'Association canadienne des eaux potables et Jacobs Participation au concours junior au sujet de l'eau présenté en ligne du 2 au 24 août 2021, 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. Le second et le troisième recevront chacun un prix de 300 \$.

Emily Goodson – Simcoe County – ON

A Novel Approach to the Reparation of Damaged Freshwater Ecosystems Simulating Wetland Filtration

Jessica Graham – South-East New Brunswick – NB

Modified Fe Nanoparticles and a Rotating Magnetic Drum: Removing Aquatic Microplastics

Annabelle Rayson – Lambton County – ON

Plankton Wars: An Innovative Analysis of Daphnia Genotype Biomanipulation for Algae Bloom Prevention

Prix en physique de l'ACP

Sénior

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

Zachary Ireland – Manitoba Schools Science Symposium – MB

Quantifying the Likelihood of Neutron Absorption Utilizing Radiative Capture Cross-Sections

Prix du Centre pour la durabilité du nucléaire canadien

Intermédiaire

Sponsor: Centre pour la durabilité du nucléaire canadien
750 \$ en argent comptant et un certificat

Naila Moloo – Ottawa – ON

Forecasting the Power Output of Photovoltaic Systems

Prix deutraMed pour l'innovation en chimie

Junior

Sponsor: deutraMed Inc.
500 \$ en argent comptant et un certificat

Kevin Cornell – South-East New Brunswick – NB

Accessible Hydrogen Therapy with Graphite Electrodes

Prix de l'innovation en génie

Sénior

Sponsor: La Société canadienne des ingénieurs aînés
1 000 \$ en argent comptant et un certificat

Alexis Krasnova – Thames Valley – ON

Detection and prevention of triggers for photosensitive epilepsy seizures in YouTube videos

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix d'excellence en astronomie

Junior

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

Arushi Nath – Toronto – ON

Strengthening Planetary Defense: Detecting Unknown Asteroids using Open Data, Math, and Python

Prix d'excellence en astronomie

Intermédiaire

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

Silas Eastwood – Halifax – NS

SMARTEN: Simulated Microgravity and Reduced Friction Test Environment for Nanosatellites

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

Junior

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

Dylan Bercier – Manitoba First Nations ERC – MB

Tap Water Quality in Kinonjeoshtegon First Nation

Prix « Intact » pour la résilience aux changements climatiques

Junior

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

Sia Mehta – Simcoe County – ON

Thermochromic Economics

Prix « Intact » pour la résilience aux changements climatiques

Intermédiaire

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

Maya LeBlanc – Bay Area – ON

Carbon Capture Depletion Using Catalyzed Photosynthesis to Promote Crop Growth

Prix « Intact » pour la résilience aux changements climatiques

Sénior

Sponsor: Intact Corporation financière
Une somme de 1 000 \$ en argent comptant et une visite virtuelle de l'Université de Waterloo et du Centre Intact sur l'adaptation aux changements climatiques, le principal centre de recherche canadien sur la résilience au changement climatique, à Waterloo (Ontario).

Emily Goodson – Simcoe County – ON

A Novel Approach to the Reparation of Damaged Freshwater Ecosystems Simulating Wetland Filtration

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

Sénior

Sponsor: l'Institut Périmètre pour la physique théorique
Un certificat et Le prix consiste en une bourse complète pour participer à l'École d'été internationale pour les jeunes physiciens 2021 (ISSYP 2021) du 19 au 30 juillet.

Gabrielle Seal – Calgary Youth – AB

A Survey of Compact, Intermediate-Velocity H I Clouds in the Inner Milky Way

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix de nanotechnologie pour une société durable

Junior

Sponsor: Waterloo Institute for Nanotechnology
500 \$ en argent comptant et un certificat

Sophia Zhang – Eastern Newfoundland – NL

Triboelectric Effect and Nanogenerator

Prix de nanotechnologie pour une société durable

Intermédiaire

Sponsor: Waterloo Institute for Nanotechnology
750 \$ en argent comptant et un certificat

Katharine Morley – Vancouver Island – BC

Coagulant Conundrum: Exploring the Efficacy of Natural and Chemical Coagulants on Microplastics

Prix de nanotechnologie pour une société durable

Sénior

Sponsor: Waterloo Institute for Nanotechnology
1 000 \$ en argent comptant et un certificat

Thomas Pronovost – Réseau Technoscience – QC

Analyse ta foulée!

Prix de la fondation « Nutriments pour la vie »

Sénior

Sponsor: Nutrients for Life Foundation Canada
1000 \$ en argent comptant et un certificat

Emily Goodson – Simcoe County – ON

A Novel Approach to the Reparation of Damaged Freshwater Ecosystems Simulating Wetland Filtration

Prix de l'énergie renouvelable

Junior

Sponsor: Ontario Power Generation
500 \$ en argent comptant et un certificat

Vedant Sheel – Bluewater – ON

Smart Solar Tracker!

Prix de l'énergie renouvelable

Intermédiaire

Sponsor: Ontario Power Generation
750 \$ en argent comptant et un certificat

Claire Mantrop – Simcoe County – ON

Water Works

Prix de l'énergie renouvelable

Sénior

Sponsor: Ontario Power Generation
1 000 \$ en argent comptant et un certificat

Bach Nguyen – South-East New Brunswick – NB

Elevated Vehicle Routing in Reverse Logistics for Garbage Transportation in Saint John New Brunswick

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix S.M. Blair Family Foundation

Junior

Sponsor: S.M. Blair Family Foundation
500 \$ en argent comptant et un certificat

Ryvan Hammoud – South Fraser – BC

Smart Wash

Prix S.M. Blair Family Foundation

Intermédiaire

Sponsor: S.M. Blair Family Foundation
750 \$ en argent comptant et un certificat

Philippe Provencher – Réseau Technoscience – QC

Le VéloTonome

Prix S.M. Blair Family Foundation

Sénior

Sponsor: S.M. Blair Family Foundation
1 000 \$ en argent comptant et un certificat

Yubo Wang, Matthew Zullo – York – ON

EyeInteract: Accessible Eye Tracking for the Physically Disabled Using Computer Vision

Bourse d'étude Shad Canada

Intermédiaire

Sponsor: Shad Canada
Bourse de 1 000 \$

Ava Fischer – Simcoe County – ON

COVID Coaster

Bourse d'étude Shad Canada

Intermédiaire

Sponsor: Shad Canada
Bourse de 2 000 \$

Nishka Rai – Wood Buffalo – AB

Buzz! - An Affordable Chronic Wound Alert System

Bourse d'étude Shad Canada

Intermédiaire

Sponsor: Shad Canada
Bourse de 3 000 \$

Hassan Amir – Yukon Stikine – YT

Understanding the Impact of Opioid-Related Substances on Yukon Youth

Prix de la Société statistique du Canada

Intermédiaire

Sponsor: Société statistique du Canada
750 \$ en argent comptant et un certificat

Elizabeth Chen – Edmonton – AB

Design Parameters for CAR-T Cell Therapy using RNA Sequencing Analysis

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix de la Société statistique du Canada

Sénior

Sponsor: Société statistique du Canada
1 000 \$ en argent comptant et un certificat

Oumaima Malih – Réseau Technoscience – QC

Réglisse et la durée de vie

Prix pour l'agriculture durable

Junior

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

Thông Quách, Aurora Leung-Vermette – Saskatoon – SK

Saved from the Lepidopterans

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

Sénior

Sponsor: Université d'Ottawa, Faculté des sciences
11 500 \$ research scholarship et certificat

Ria Patel – Ottawa – ON

BlueViolet: a wearable eye-health monitor to counter the unseen health effects of COVID-19

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

Intermédiaire

Sponsor: York University, Lassonde School of Engineering
Certificat et bourse d'études complètes pour participer au Camp d'entraînement virtuel lié aux STIM de l'Université York et de Sciences jeunesse Canada en août 2021

Archie Shou, Edwin Wang – Toronto – ON

AI Object Location Recognition Software for the Blind

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

Sénior

Sponsor: York University, Lassonde School of Engineering
Certificat et bourse d'études complètes pour participer au Camp d'entraînement virtuel lié aux STIM de l'Université York et de Sciences jeunesse Canada en août 2021

Morane Charbonneau – Réseau Technoscience – QC

I-Muno

Ria Patel – Ottawa – ON

BlueViolet: a wearable eye-health monitor to counter the unseen health effects of COVID-19

Sparsh Patel – Wood Buffalo – AB

FOCUS! - An EEG And ANN Powered Brain Sensing Headband For Accident Prevention

Prix d'excellence - bronze

Junior

Sponsor: Sciences jeunesse Canada
Médaille et un certificat

Sebastian Audet – YSC Virtual – CA

Floating Heart is Breaking my Heart

Kaan Bektas – Toronto – ON

Collision Avoiding and Concussion Identifying Bicycle Helmet

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Hannah Cheang – York – ON
Fish Powered Plant Growth

Isla Corkum – Strait – NS
Which Light Is Right?

Chloe Dafoe – Halifax – NS
Ocean Acidification

Param Dixit – Toronto – ON
Lost In Translation

Nuala Gibbs – United Counties – ON
L'impact du climat: Exploration de l'énergie éolienne

Sadie Hanley – Ottawa – ON
Pitch Perfect: How Cold Temperature Affects the Frequency of Musical Notes

Marion Harvey – Réseau Technoscience – QC
Soulever à la force des fibres

Jordan Hussey – North-West New Brunswick – NB
It's going to be lit!

Nathan Janssen – Thames Valley – ON
Resisting Rust

Frankie La Peter – East Kootenay – BC
'Peer'ing into Pressure

Nate Martin – Manitoba Schools Science Symposium – MB
To Mask or not to Mask? Why is that Even a Question?

Elise Munro – Strait – NS
Lymeon: A Novel Way To Test Lyme Disease in Minutes

Jora Singh Nahal – Cariboo Mainline – BC
Drowsiness Detection and Virtual Friend Speech-Robot for Safe Driving: A Novel App

Caden Oliphant – Thames Valley – ON
Masks Rock! Which Face Masks are More Effective?

Nicholas Pacifici – Bay Area – ON
Head On A Swivel 2.0: Brace For Impact

Alpita Patro – Eastern Newfoundland – NL
Algae: The Future of Biofuel

Timothy Riddolls – Ottawa – ON
Electromagnetic Pulse Effects on Non-Volatile Digital Memory

Hussain Rizvi – Regina – SK
Modelling Invasive Species Growth with Zebra Mussels

Ava Romano – Bay Area – ON
Can CAR T-Cell Therapy Be Used to Cure Alzheimer's Disease?

Onkit Saha – North-West New Brunswick – NB
Thermoelectric, Reusable, and Sustainable Heat cycle

Ella Sehn – Peterborough – ON
Vegetation Sanitation: Measuring the Impact of Oil Spills on Oxygen Production of Aquatic Plants

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Margo Senchenko – South Fraser – BC

Attractive Cat Scratcher

Isaiah Sienna – Bay Area – ON

The Effects of Plastic Contamination in Plastic Water Bottles Due to Environmental Variables

Jaime So – Ottawa – ON

Testing Tampons. Toxic or Terrific?

Maya Sternin – Niagara – ON

What is your temperature?

Misha van Anders – Frontenac, Lennox & Addington – ON

Canoe believe it?

Sophia Zhang – Eastern Newfoundland – NL

Triboelectric Effect and Nanogenerator

Michael Zheng – Calgary Youth – AB

Detecting Mask-Wearing via Machine Learning

Prix d'excellence - bronze

Intermédiaire

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Farhan Ahmed, Alexander Li – South Fraser – BC

The Methane Recycler

Hassan Amir – Yukon Stikine – YT

Understanding the Impact of Opioid-Related Substances on Yukon Youth

Silas Armstrong – Halifax – NS

House Dressing

Arham Aziz – Thames Valley – ON

Decrypting the facial code of Alzheimer's disease

Katie Buchel – Thames Valley – ON

Wonderous World of Angular Velocity: Diving Edition

Keanu Chan – East Kootenay – BC

Design, Implementation and Assessment of Novel universal Design Internal Spine Concept (NuDISC)

Sophia Croft – Halifax – NS

To Fry or not to Fry: Does Cooking Pollute Indoor Air?

Ava Fischer – Simcoe County – ON

COVID Coaster

Ishan Gehlaut – Toronto – ON

Using Regression Learning to predict Algal Blooms in the Great Lakes

Pari Goyal, Lucie Li – Greater Vancouver – BC

Windblade

Islay Graham – Bluewater – ON

The National Helmet Expiry Inquiry

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Grace Ko – Toronto – ON

SoilTO: Using Statistical Analysis to Determine How Race and Income Affect Toronto's Soil Quality

Alex Lea – Central Interior BC – BC

Sustainable Nutrient Regeneration: The Effects of Wood Ash and Nitrogen on Pasture Grass Nutrition

Maya LeBlanc – Bay Area – ON

Carbon Capture Depletion Using Catalyzed Photosynthesis to Promote Crop Growth

Claire Mantrop – Simcoe County – ON

Water Works

Naila Moloo – Ottawa – ON

Forecasting the Power Output of Photovoltaic Systems

Katharine Morley – Vancouver Island – BC

Coagulant Conundrum: Exploring the Efficacy of Natural and Chemical Coagulants on Microplastics

Annalise Musclow, Sydney Dobbin – Peterborough – ON

Quantitative Study of Microplastics in Jackson's Creek

Natalie Parker – Northwestern Ontario – ON

Microplastics - A Big Little Problem

Nadine Persad – West Kootenay & Boundary – BC

Development and Testing of a Novel Post Harvest Treatment

Philippe Provencher – Réseau Technoscience – QC

Le VéloTonome

Nishka Rai – Wood Buffalo – AB

Buzz! - An Affordable Chronic Wound Alert System

Derek Sheen – Waterloo-Wellington – ON

A Novel Approach to Detecting Melanoma Using Deep Learning

Ken Shibata – Toronto – ON

Kyokukey: Wearable Input Device Using Conductive Threads

Sohila Sidhu – Windsor – ON

Proof of Concept: Artificial Pancreas for Patients with Diabetes

Rachel Simantov – Calgary Youth – AB

Framework for Optimal Pandemic Management

Viduni Siriwardana – Greater Vancouver – BC

Novel, High-Yielding DNA Extraction Protocol via Automated Device to Provide Facile Forensic Analysis

Harshita Srikanth – Quinte – ON

Creativity = TRIZ!

Alan Van – Toronto – ON

A Model for Medical Diagnosis Using Artificial Intelligence

Ann Wang – Greater Vancouver – BC

An Acidic Future

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Prix d'excellence - bronze

Sénior

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Nuha Akhand, Mariya Turetska – Waterloo-Wellington – ON

Inhibition of Cancer Cells Through Algae Derived EPA

Eunjo An – Vancouver Island – BC

Orange Peels as Biosorbents in the Treatment of Heavy Metal Wastewater

Rhea Bhalla – Calgary Youth – AB

Dementia and COVID-19: Comparison of Responsive Behaviours in the Initial and Later Pandemic Waves

Elsa Bienenstock, Alex Alam – Toronto – ON

Parkinson's Spoon

Chloe Brodie – Calgary Youth – AB

Identifying Zinc-Containing Neurons to Widen Research into Zinc's Role in Neuroplasticity

Morane Charbonneau – Réseau Technoscience – QC

I-Muno

Kristin Cho – Toronto – ON

Inducement of Autoimmune Disease from Lead Exposure and Prevention Using Fermented Food Bacteria

Krish Desai – YSC Virtual – CA

Investigating Kalanchoe pinnata as a potential treatment for acute nephrolithiasis

Armaandeeep Dhanoa – Manitoba Schools Science Symposium – MB

Fabrication of Micro-Optical-Ring-Electrodes and their Application on Biological Samples

Manorama Joshi – Wood Buffalo – AB

Automotive SMART Cane for the Visually and Auditorily Impaired

Samarah Kanji – Calgary Youth – AB

Demyelination in Diffuse Axonal injury in mTBI

Anantjot Khosa – Manitoba Schools Science Symposium – MB

Fabrication of electrodes to detect Cytochrome C Oxidase deficiency

Jeffrey Klinck – Bay Area – ON

MediRecord: a Quasi-Permissioned Blockchain Medical Record Verification System

Alexis Krasnova – Thames Valley – ON

Detection and prevention of triggers for photosensitive epilepsy seizures in YouTube videos

Seungmyoung Lee, Amyna Ismail – Toronto – ON

Eye Spy: A Novel Way to Predict & Detect Alzheimer's Disease

William Li – Greater Vancouver – BC

Development of a Novel Pesticide for Rice Blast Disease

Julia Mansiere – YSC Virtual – CA

Were Urban Heat Islands a Factor in the Deadliness of the Summer 2021 Heat Dome in British Columbia?

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



LiLi Miko – Thames Valley – ON

Can't Afford Accuracy? A Three-Dimensional Printer for Sustainable Scavengers

Tri Nguyen, Rena Warren – Central Alberta Rotary – AB

SmartLifeJacket - An Automatic Inflating Life Jacket When The User Is In Distressed

Teighin Nordholt – South-East New Brunswick – NB

Modifying Cloud Chamber Technologies

Dhyan Patel – Wood Buffalo – AB

Where What Goes: The combination of CV and AI to enhance the recycling experience.

Kiran Prasad, Arushi Rawat – Lambton County – ON

SeaQuester: A Novel Approach to Increasing the Carbon Dioxide Absorption and Alkalinity of the Ocean

Aiden Shlien – Réseau Technoscience – QC

A Miracle or a Mistake?

Prabhnoor Sidhu – Central Interior BC – BC

Mitigating the Effects of Debris Flows

Anna Siekierzycki – Bluewater – ON

Corticosteroid Injections/ Hyaluronic Acid and Their Use in Performance Horses

Michaela Stillwell, Antonia Tannert von Baer – Central Interior BC – BC

The Effects of Microplastics on Phytoplankton

Grace Tuglavina – Labrador, Western & Central Newfoundland – NL

The domino effect-how changing ice patterns in the North have far reaching consequences

Lauren Wilkes – Ottawa – ON

Effet des additifs au sel de voirie sur la réduction de la pollution routière

Yitian Zhang – South-East New Brunswick – NB

Effects of 16/8 Intermittent Fasting Diet on Type 2 Diabetes

Gary Zhu – Thames Valley – ON

Doctor X - An AI Powered Personal Medical Assistant

Prix d'excellence - argent

Junior

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Angela Cao – Greater Vancouver – BC

Fountain of Youth

Armaan Chaudhari – Western Manitoba – MB

Health Benefits of Copper

Ashish Chettimada – Waterloo-Wellington – ON

Bacteriophages: Curing One Infection With Another

Abdul-Rahman Dannawey, Abdul Majeed Al Riahi – Windsor – ON

Smart Cane for Visually Impaired People

Ila Giroux – Algoma Rotary – ON

Fire Cannot Brew Without O2

Récipiendaires des prix

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Virtuelle – Fredericton (Nouveau-Brunswick)



Isha Goyal – Calgary Youth – AB

CRISPR vs COVID: Genetic Modification to Treat SARS-CoV-2

Ryyan Hammoud – South Fraser – BC

Smart Wash

Ariana Harrison, Everett Harrison – Edmonton – AB

A Strawy Mess Phase 2

James Hoag – Greater Vancouver – BC

Keep The Noise Out!

Ryan Layton-Matthews – Frontenac, Lennox & Addington – ON

Walking on Thin Ice

Teddy Mao – Bay Area – ON

Transparent Wood: A Window to the Future?

Sia Mehta – Simcoe County – ON

Thermochromic Economics

Sebastien Menard – Frontenac, Lennox & Addington – ON

Roofing for a Green Future

Sarah Murimboh – Annapolis Valley – NS

The Effect of Fertilizers on the Hatch Success of Triops longicaudatus

Reuel Ramalingam – YSC Virtual – CA

Pink to Brown - How to Prevent Concussions

Lauren Rasalingam – Ottawa – ON

Not on my back!

Mohamed Saleh – Windsor – ON

Pumpkin Plastic

Vedant Sheel – Bluewater – ON

Smart Solar Tracker!

Tamsen Taylor – Ottawa – ON

Dark Skies in Ottawa

Julia Valdez – West Kootenay & Boundary – BC

Does the BPM of Music Rather than the Type of Music Affect the Learning Process in Mice?

Prix d'excellence - argent

Intermédiaire

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Tesko Chaganti – Windsor – ON

Unraveling the Secrets of Healthy Aging

Emily Chan – Greater Vancouver – BC

Sea Scrap Slippers

Ethan Chase – Greater Vancouver – BC

RESeTCO2: Residential Emission Sequestration Technologies for Carbon Dioxide.

Elizabeth Chen – Edmonton – AB

Design Parameters for CAR-T Cell Therapy using RNA Sequencing Analysis

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Virtuelle – Fredericton (Nouveau-Brunswick)



Sophie Filion, Chloe Filion – Niagara – ON

The Dynamic Highway Speed Emission Control System

Tharunika Gnaneshan – YSC Virtual – CA

Hidden Women: A Project on Women of Color in STEM

Veronica Guo – Greater Vancouver – BC

Bioelectric Batteries: Using Algae to Make the Battery Renewable

Brennah Hammond – Peterborough – ON

Do You PerSEEEve What I PerSEEEve?

Nathan Hellner-Mestelman – Vancouver Island – BC

Breakup is a Drag - Using a lower CubeSat Orbit to Protect Space Infrastructure

Jonathan Leung – Greater Vancouver – BC

A Case Study of Wildlife Feeding and Coyote Attacks in Vancouver's Stanley Park

Ziyu Li, Zipeng Li – Calgary Youth – AB

Tenebrio Molitor Polystyrene Foam Consumption - The Effect of Additional Nutritional Sources

Marissa Magsino – Manitoba Schools Science Symposium – MB

Behavioral modification of Tenebrio molitor by toxins to maximize the biodegradation of polystyrene

Mark Norregaard – 4-H Canada – CA

A Comparison of Natural Corrosion Inhibitors on Metals

Evan Papps – Vancouver Island – BC

Can Slime Mold Adapt and Communicate?

Kadhir Ponnambalam – Bay Area – ON

Effect Of Electrical Field On Tardigrades In A Microfluidic Environment

Kayla Salasidis – Réseau Technoscience – QC

OR in Focus: An Automatic Focusing Overhead Operating Room Light

Archie Shou, Edwin Wang – Toronto – ON

AI Object Location Recognition Software for the Blind

Nathan Yeung, Charlie Zhang – South Fraser – BC

Lento: Goal-Based Productivity

Tara Zhan – Greater Vancouver – BC

Medical Mo-Cap

Timothy Zhou – Calgary Youth – AB

Toilet Leak Detector

Prix d'excellence - argent

Sénior

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Rafay Ahmed – Northern Saskatchewan – SK

An FDA-Approved Drug Screening to Eliminate Telomerase Over-Expressing Pancreatic Cancer

Grace Awotundun – Calgary Youth – AB

Quantification of ASD-related Gene Transcripts in Glyphosate-exposed Zebrafish Through Larval Stages

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Oliver Baker – Annapolis Valley – NS

Baseline Assessment of Marine Water Entering Freshwater Waterways Through the Aboiteaux in Dykes

Becca Barbera – Bay Area – ON

QSAR Model for the Inhibition of A β 1-42 Peptide: Molecular Dynamics and Bioinformatics Study

Carlynn Davidson – Winnipeg Schools – MB

Young Extracellular Vesicles as Revitalizing Agents for Age Associated Cellular Dysfunction

Ella Dunsmore – Calgary Youth – AB

Testing Aprepitant as a Possible Therapeutic in Two Pediatric Cancer Cell Lines

Emily Goodson – Simcoe County – ON

A Novel Approach to the Reparation of Damaged Freshwater Ecosystems Simulating Wetland Filtration

Jessica Graham – South-East New Brunswick – NB

Modified Fe Nanoparticles and a Rotating Magnetic Drum: Removing Aquatic Microplastics

Chloe Hill – Simcoe County – ON

Autonomous Search And Rescue Aircraft

Rawaan Ibrahim – Edmonton – AB

Grassheet

Zachary Ireland – Manitoba Schools Science Symposium – MB

Quantifying the Likelihood of Neutron Absorption Utilizing Radiative Capture Cross-Sections

Oumaima Malih – Réseau Technoscience – QC

Réglisse et la durée de vie

Bach Nguyen – South-East New Brunswick – NB

Elevated Vehicle Routing in Reverse Logistics for Garbage Transportation in Saint John New Brunswick

Ria Patel – Ottawa – ON

BlueViolet: a wearable eye-health monitor to counter the unseen health effects of COVID-19

Sparsh Patel – Wood Buffalo – AB

FOCUS! - An EEG And ANN Powered Brain Sensing Headband For Accident Prevention

Parmin Sedigh – Frontenac, Lennox & Addington – ON

Exposure to glyphosate-based herbicide and zebrafish fin regeneration

Kevin Shao – Thames Valley – ON

A Computer Vision-Controlled Smart Robotic Arm

Graydon Strachan – Winnipeg Schools – MB

MAC: A Novel Method for Clinical Weight Estimation

Sarah Syed – Toronto – ON

Harnessing Nanotechnology in Biomass and Carboxyl Grouping for Water Remediation

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Regulating Digital Eye Strain using Similarity Index

Caroline Chan – Toronto – ON

Do Masks Mask Your Emotions? AI Emotion Recognition in the Era of Face Masks

Audrey Cowen – Toronto – ON

The Hidden Side of Your Dog's Love

Jamie Drysdale – Ottawa – ON

Genetically modifying K 12 Escherichia coli to produce Recombinant Sars-Cov-2 Spike Protein

Aiyaan Faisal – Winnipeg Schools – MB

Geometric Exploration of Musical Rhythms using Phase Space Plots

Malaya Jung Little – West Kootenay & Boundary – BC

Does a Walk in Nature Improve your Memory?

Emily Lin, Ruiyi Sang – South Fraser – BC

Writing a cleaner future with E-Coal

Arushi Nath – Toronto – ON

Strengthening Planetary Defense: Detecting Unknown Asteroids using Open Data, Math, and Python

Anjali Patel – Frontenac, Lennox & Addington – ON

Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma

Surya Narayan Santhakumar – Quinte – ON

Snow SBOT V2

Prix d'excellence - or Intermédiaire

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A Need For Speed: Enhancing F1 Race Cars with Computational Fluid Dynamics and Machine Learning

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A Novel Pre-Hospital Indoor Rescue Drone

Silas Eastwood – Halifax – NS

SMARTEN: Simulated Microgravity and Reduced Friction Test Environment for Nanosatellites

Séréna Harvey – Réseau Technoscience – QC

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Mihaela Iluta, Akram Tahar Chaouch – Réseau Technoscience – QC

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Using Robotics to Naturally Trim the Dandelion Cycle - A Novel Approach to Eliminating Chemicals on Lawns

Keerthan Kamala Krishnamoorthy – Manitoba Schools Science Symposium – MB

Using Deep Learning to Identify Harmful Micro-Organisms in Drinking Water

Kibo Nagasaki – Bay Area – ON

Survival of Indigenous Ancestors

Justin Peng – Greater Vancouver – BC

Taking Control: A Novel Galvanic Stimulation Device for the Visually Impaired

Jasmine Schneider – Waterloo-Wellington – ON

Phosphate Removal from Groundwater Using Mussel Shell Biochar

Prix d'excellence - or

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Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Dheiksha Jayasankar – Niagara – ON

Smiglaside-C Part 2: Developing Hydrogel Films from A.muricata Extracts for Wound Healing Purposes

Gurnirmal Kaur – Bay Area – ON

EzerBot: Detecting Phrases Indicative of Emotional Distress Within Online Platforms

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Krish Modi – Lambton County – ON

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Thomas Pronovost – Réseau Technoscience – QC

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Annabelle Rayson – Lambton County – ON

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A Survey of Compact, Intermediate-Velocity H I Clouds in the Inner Milky Way

Maria Xu – Toronto – ON

Analyzing Treatment-related Symptoms in Metastatic Colorectal Cancer Patients with Machine Learning

Grace Yu, Akira Yoshiyama – Fraser Valley – BC

On the Generative Design of Airfoils

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Junior

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Fish Powered Plant Growth

Récipiendaires des prix

Expo-sciences pancanadienne 2022

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Prix du défi - Agriculture, pêche et alimentation

Intermédiaire

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Nadine Persad – West Kootenay & Boundary – BC
Development and Testing of a Novel Post Harvest Treatment

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Sénior

Sponsor: Sciences jeunesse Canada
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Mac Dykeman – 4-H Canada – CA
A Simple, Scalable Method For Reducing Stress In Chicks During The First Seven Days Post Hatch.

Prix du défi - Curiosité et ingéniosité

Junior

Sponsor: Sciences jeunesse Canada
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Arushi Nath – Toronto – ON
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Prix du défi - Curiosité et ingéniosité

Intermédiaire

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Max Du – Calgary Youth – AB
A Novel Pre-Hospital Indoor Rescue Drone

Prix du défi - Curiosité et ingéniosité

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Patricia Rea – York – ON
BioGrade Yeast: The Function of a Novel cfAFP-501-CcMreB Filament-Forming AFP

Prix du défi - Technologie numérique

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Using Deep Learning to Identify Harmful Micro-Organisms in Drinking Water

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Expo-sciences pancanadienne 2022

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Prix du défi - Technologie numérique

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Prix du défi - Maladies et infections

Junior

Sponsor: Sciences jeunesse Canada

Certificat

Anjali Patel – Frontenac, Lennox & Addington – ON

Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma

Prix du défi - Maladies et infections

Intermédiaire

Sponsor: Sciences jeunesse Canada

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Séréna Harvey – Réseau Technoscience – QC

Bactéries pour souper!

Prix du défi - Maladies et infections

Sénior

Sponsor: Sciences jeunesse Canada

Certificat

Koral Kulacoglu, Louis Wu – York – ON

FourSight: Analysis of Cancerous Genetic Profiles With Artificial Neural Networks

Prix du défi - Énergie

Junior

Sponsor: Sciences jeunesse Canada

Certificat

Vedant Sheel – Bluewater – ON

Smart Solar Tracker!

Prix du défi - Énergie

Intermédiaire

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Bioelectric Batteries: Using Algae to Make the Battery Renewable

Prix du défi - Énergie

Sénior

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Certificat

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Elevated Vehicle Routing in Reverse Logistics for Garbage Transportation in Saint John New Brunswick

Récipiendaires des prix

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Prix du défi - Environnement et changement climatique

Junior

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Certificat

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Roofing for a Green Future

Prix du défi - Environnement et changement climatique

Intermédiaire

Sponsor: Sciences jeunesse Canada

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Phosphate Removal from Groundwater Using Mussel Shell Biochar

Prix du défi - Environnement et changement climatique

Sénior

Sponsor: Sciences jeunesse Canada

Certificat

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Plankton Wars: An Innovative Analysis of Daphnia Genotype Biomanipulation for Algae Bloom Prevention

Prix du défi - Santé ou bien être

Junior

Sponsor: Sciences jeunesse Canada

Certificat

Malaya Jung Little – West Kootenay & Boundary – BC

Does a Walk in Nature Improve your Memory?

Prix du défi - Santé ou bien être

Intermédiaire

Sponsor: Sciences jeunesse Canada

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Mihaela Iluta, Akram Tahar Chaouch – Réseau Technoscience – QC

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Sénior

Sponsor: Sciences jeunesse Canada

Certificat

Gurnirmal Kaur – Bay Area – ON

EzerBot: Detecting Phrases Indicative of Emotional Distress Within Online Platforms

Prix du défi - Ressources naturelles

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Emily Lin, Ruiyi Sang – South Fraser – BC

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Behavioral modification of Tenebrio molitor by toxins to maximize the biodegradation of polystyrene

Sohila Sidhu – Windsor – ON

Proof of Concept: Artificial Pancreas for Patients with Diabetes

Ansh Vashisht – Cariboo Mainline – BC

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Parmin Sedigh – Frontenac, Lennox & Addington – ON

Exposure to glyphosate-based herbicide and zebrafish fin regeneration

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Un voyage pour représenter le Canada au Défi international BioGENEius

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Aiyaan Faisal – Winnipeg Schools – MB

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RESeTCO2: Residential Emission Sequestration Technologies for Carbon Dioxide.

Max Du – Calgary Youth – AB

A Novel Pre-Hospital Indoor Rescue Drone

Silas Eastwood – Halifax – NS

SMARTEN: Simulated Microgravity and Reduced Friction Test Environment for Nanosatellites

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Gurnirmal Kaur – Bay Area – ON

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Krish Modi – Lambton County – ON

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Krish Modi – Lambton County – ON
Pee Xylophone: A Novel Non-Invasive System to Measure Bladder Pressure

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Intermédiaire

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Prix en cristal

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Prix platine - innovation

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Gabrielle Seal – Calgary Youth – AB

A Survey of Compact, Intermediate-Velocity H I Clouds in the Inner Milky Way

Maria Xu – Toronto – ON

Analyzing Treatment-related Symptoms in Metastatic Colorectal Cancer Patients with Machine Learning

Grace Yu, Akira Yoshiyama – Fraser Valley – BC

On the Generative Design of Airfoils

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An FDA-Approved Drug Screening to Eliminate Telomerase Over-Expressing Pancreatic Cancer

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Quantification of ASD-related Gene Transcripts in Glyphosate-exposed Zebrafish Through Larval Stages

Oliver Baker – Annapolis Valley – NS

Baseline Assessment of Marine Water Entering Freshwater Waterways Through the Aboiteaux in Dykes

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Young Extracellular Vesicles as Revitalizing Agents for Age Associated Cellular Dysfunction

Ella Dunsmore – Calgary Youth – AB

Testing Aprepitant as a Possible Therapeutic in Two Pediatric Cancer Cell Lines

Emily Goodson – Simcoe County – ON

A Novel Approach to the Reparation of Damaged Freshwater Ecosystems Simulating Wetland Filtration

Jessica Graham – South-East New Brunswick – NB

Modified Fe Nanoparticles and a Rotating Magnetic Drum: Removing Aquatic Microplastics

Chloe Hill – Simcoe County – ON

Autonomous Search And Rescue Aircraft

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Sénior

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Rawaan Ibrahim – Edmonton – AB

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Koral Kulacoglu, Louis Wu – York – ON

FourSight: Analysis of Cancerous Genetic Profiles With Artificial Neural Networks

Krish Modi – Lambton County – ON

Pee Xylophone: A Novel Non-Invasive System to Measure Bladder Pressure

Thomas Pronovost – Réseau Technoscience – QC

Analyse ta foulée!

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Plankton Wars: An Innovative Analysis of Daphnia Genotype Biomanipulation for Algae Bloom Prevention

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BioGrade Yeast: The Function of a Novel cfAFP-501-CcMreB Filament-Forming AFP

Gabrielle Seal – Calgary Youth – AB

A Survey of Compact, Intermediate-Velocity H I Clouds in the Inner Milky Way

Maria Xu – Toronto – ON

Analyzing Treatment-related Symptoms in Metastatic Colorectal Cancer Patients with Machine Learning

Grace Yu, Akira Yoshiyama – Fraser Valley – BC

On the Generative Design of Airfoils

Bourse d'admission de l'Université d'Ottawa

Sénior

Sponsor: Université d'Ottawa

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

Rafay Ahmed – Northern Saskatchewan – SK

An FDA-Approved Drug Screening to Eliminate Telomerase Over-Expressing Pancreatic Cancer

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Quantification of ASD-related Gene Transcripts in Glyphosate-exposed Zebrafish Through Larval Stages

Oliver Baker – Annapolis Valley – NS

Baseline Assessment of Marine Water Entering Freshwater Waterways Through the Aboiteaux in Dykes

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QSAR Model for the Inhibition of A β 1-42 Peptide: Molecular Dynamics and Bioinformatics Study

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Carlynn Davidson – Winnipeg Schools – MB

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Jessica Graham – South-East New Brunswick – NB

Modified Fe Nanoparticles and a Rotating Magnetic Drum: Removing Aquatic Microplastics

Chloe Hill – Simcoe County – ON

Autonomous Search And Rescue Aircraft

Rawaan Ibrahim – Edmonton – AB

Grassheet

Zachary Ireland – Manitoba Schools Science Symposium – MB

Quantifying the Likelihood of Neutron Absorption Utilizing Radiative Capture Cross-Sections

Oumaima Malih – Réseau Technoscience – QC

Réglisse et la durée de vie

Bach Nguyen – South-East New Brunswick – NB

Elevated Vehicle Routing in Reverse Logistics for Garbage Transportation in Saint John New Brunswick

Ria Patel – Ottawa – ON

BlueViolet: a wearable eye-health monitor to counter the unseen health effects of COVID-19

Sparsh Patel – Wood Buffalo – AB

FOCUS! - An EEG And ANN Powered Brain Sensing Headband For Accident Prevention

Parmin Sedigh – Frontenac, Lennox & Addington – ON

Exposure to glyphosate-based herbicide and zebrafish fin regeneration

Kevin Shao – Thames Valley – ON

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MAC: A Novel Method for Clinical Weight Estimation

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Harnessing Nanotechnology in Biomass and Carboxyl Grouping for Water Remediation

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Bourse d'admission de l'Université d'Ottawa

Sénior

Sponsor: Université d'Ottawa

Médaille de bronze, sénior – Bourse d'admission de 1 000 \$

Nuha Akhand, Mariya Turetska – Waterloo-Wellington – ON

Inhibition of Cancer Cells Through Algae Derived EPA

Eunjo An – Vancouver Island – BC

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Kristin Cho – Toronto – ON

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Alexis Krasnova – Thames Valley – ON

Detection and prevention of triggers for photosensitive epilepsy seizures in YouTube videos

Seungmyoung Lee, Amyna Ismail – Toronto – ON

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William Li – Greater Vancouver – BC

Development of a Novel Pesticide for Rice Blast Disease

Julia Mansiere – YSC Virtual – CA

Were Urban Heat Islands a Factor in the Deadliness of the Summer 2021 Heat Dome in British Columbia?

Récipiendaires des prix

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LiLi Miko – Thames Valley – ON

Can't Afford Accuracy? A Three-Dimensional Printer for Sustainable Scavengers

Tri Nguyen, Rena Warren – Central Alberta Rotary – AB

SmartLifeJacket - An Automatic Inflating Life Jacket When The User Is In Distressed

Teighin Nordholt – South-East New Brunswick – NB

Modifying Cloud Chamber Technologies

Dhyan Patel – Wood Buffalo – AB

Where What Goes: The combination of CV and AI to enhance the recycling experience.

Kiran Prasad, Arushi Rawat – Lambton County – ON

SeaQuester: A Novel Approach to Increasing the Carbon Dioxide Absorption and Alkalinity of the Ocean

Aiden Shlien – Réseau Technoscience – QC

A Miracle or a Mistake?

Prabhnoor Sidhu – Central Interior BC – BC

Mitigating the Effects of Debris Flows

Anna Siekierzycki – Bluewater – ON

Corticosteroid Injections/ Hyaluronic Acid and Their Use in Performance Horses

Michaela Stillwell, Antonia Tannert von Baer – Central Interior BC – BC

The Effects of Microplastics on Phytoplankton

Grace Tuglavina – Labrador, Western & Central Newfoundland – NL

The domino effect-how changing ice patterns in the North have far reaching consequences

Lauren Wilkes – Ottawa – ON

Effet des additifs au sel de voirie sur la réduction de la pollution routière

Yitian Zhang – South-East New Brunswick – NB

Effects of 16/8 Intermittent Fasting Diet on Type 2 Diabetes

Gary Zhu – Thames Valley – ON

Doctor X - An AI Powered Personal Medical Assistant

Bourse d'études de Western University

Sponsor: Université Western

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

Abigail Chan – Waterloo-Wellington – ON

Regulating Digital Eye Strain using Similarity Index

Caroline Chan – Toronto – ON

Do Masks Mask Your Emotions? AI Emotion Recognition in the Era of Face Masks

Ken Cheng – Toronto – ON

A Need For Speed: Enhancing F1 Race Cars with Computational Fluid Dynamics and Machine Learning

Audrey Cowen – Toronto – ON

The Hidden Side of Your Dog's Love

Jamie Drysdale – Ottawa – ON

Genetically modifying K 12 Escherichia coli to produce Recombinant Sars-Cov-2 Spike Protein

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Max Du – Calgary Youth – AB

A Novel Pre-Hospital Indoor Rescue Drone

Silas Eastwood – Halifax – NS

SMARTEN: Simulated Microgravity and Reduced Friction Test Environment for Nanosatellites

Aiyaan Faisal – Winnipeg Schools – MB

Geometric Exploration of Musical Rhythms using Phase Space Plots

Séréna Harvey – Réseau Technoscience – QC

Bactéries pour souper!

Mihaela Iluta, Akram Tahar Chaouch – Réseau Technoscience – QC

Oh la vache!

Hudson Jantzi – Waterloo-Wellington – ON

Using Robotics to Naturally Trim the Dandelion Cycle - A Novel Approach to Eliminating Chemicals on Lawns

Dheiksha Jayasankar – Niagara – ON

*Smiglaside-C Part 2: Developing Hydrogel Films from *A. muricata* Extracts for Wound Healing Purposes*

Malaya Jung Little – West Kootenay & Boundary – BC

Does a Walk in Nature Improve your Memory?

Keerthan Kamala Krishnamoorthy – Manitoba Schools Science Symposium – MB

Using Deep Learning to Identify Harmful Micro-Organisms in Drinking Water

Gurnirmal Kaur – Bay Area – ON

EzerBot: Detecting Phrases Indicative of Emotional Distress Within Online Platforms

Koral Kulacoglu, Louis Wu – York – ON

FourSight: Analysis of Cancerous Genetic Profiles With Artificial Neural Networks

Emily Lin, Ruiyi Sang – South Fraser – BC

Writing a cleaner future with E-Coal

Krish Modi – Lambton County – ON

Pee Xylophone: A Novel Non-Invasive System to Measure Bladder Pressure

Kibo Nagasaki – Bay Area – ON

Survival of Indigenous Ancestors

Arushi Nath – Toronto – ON

Strengthening Planetary Defense: Detecting Unknown Asteroids using Open Data, Math, and Python

Anjali Patel – Frontenac, Lennox & Addington – ON

Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma

Justin Peng – Greater Vancouver – BC

Taking Control: A Novel Galvanic Stimulation Device for the Visually Impaired

Thomas Pronovost – Réseau Technoscience – QC

Analyse ta foulée!

Annabelle Rayson – Lambton County – ON

*Plankton Wars: An Innovative Analysis of *Daphnia* Genotype Biomanipulation for Algae Bloom Prevention*

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Patricia Rea – York – ON

BioGrade Yeast: The Function of a Novel cfAFP-501-CcMreB Filament-Forming AFP

Surya Narayan Santhakumar – Quinte – ON

Snow SBOT V2

Jasmine Schneider – Waterloo-Wellington – ON

Phosphate Removal from Groundwater Using Mussel Shell Biochar

Gabrielle Seal – Calgary Youth – AB

A Survey of Compact, Intermediate-Velocity H I Clouds in the Inner Milky Way

Maria Xu – Toronto – ON

Analyzing Treatment-related Symptoms in Metastatic Colorectal Cancer Patients with Machine Learning

Grace Yu, Akira Yoshiyama – Fraser Valley – BC

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Baseline Assessment of Marine Water Entering Freshwater Waterways Through the Aboiteaux in Dykes

Becca Barbera – Bay Area – ON

QSAR Model for the Inhibition of A β 1-42 Peptide: Molecular Dynamics and Bioinformatics Study

Angela Cao – Greater Vancouver – BC

Fountain of Youth

Tesko Chaganti – Windsor – ON

Unraveling the Secrets of Healthy Aging

Emily Chan – Greater Vancouver – BC

Sea Scrap Slippers

Ethan Chase – Greater Vancouver – BC

RESeTCO2: Residential Emission Sequestration Technologies for Carbon Dioxide.

Armaan Chaudhari – Western Manitoba – MB

Health Benefits of Copper

Elizabeth Chen – Edmonton – AB

Design Parameters for CAR-T Cell Therapy using RNA Sequencing Analysis

Ashish Chettimada – Waterloo-Wellington – ON

Bacteriophages: Curing One Infection With Another

Abdul-Rahman Dannaway, Abdul Majeed Al Riahi – Windsor – ON

Smart Cane for Visually Impaired People

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Carlynn Davidson – Winnipeg Schools – MB

Young Extracellular Vesicles as Revitalizing Agents for Age Associated Cellular Dysfunction

Ella Dunsmore – Calgary Youth – AB

Testing Aprepitant as a Possible Therapeutic in Two Pediatric Cancer Cell Lines

Sophie Fillion, Chloe Fillion – Niagara – ON

The Dynamic Highway Speed Emission Control System

Ila Giroux – Algoma Rotary – ON

Fire Cannot Brew Without O₂

Tharunika Gnaneshan – YSC Virtual – CA

Hidden Women: A Project on Women of Color in STEM

Emily Goodson – Simcoe County – ON

A Novel Approach to the Reparation of Damaged Freshwater Ecosystems Simulating Wetland Filtration

Isha Goyal – Calgary Youth – AB

CRISPR vs COVID: Genetic Modification to Treat SARS-CoV-2

Jessica Graham – South-East New Brunswick – NB

Modified Fe Nanoparticles and a Rotating Magnetic Drum: Removing Aquatic Microplastics

Veronica Guo – Greater Vancouver – BC

Bioelectric Batteries: Using Algae to Make the Battery Renewable

Brennah Hammond – Peterborough – ON

Do You PerSEEEve What I PerSEEEve?

Ryvan Hammoud – South Fraser – BC

Smart Wash

Ariana Harrison, Everett Harrison – Edmonton – AB

A Strawy Mess Phase 2

Nathan Hellner-Mestelman – Vancouver Island – BC

Breakup is a Drag - Using a lower CubeSat Orbit to Protect Space Infrastructure

Chloe Hill – Simcoe County – ON

Autonomous Search And Rescue Aircraft

James Hoag – Greater Vancouver – BC

Keep The Noise Out!

Rawaan Ibrahim – Edmonton – AB

Grassheet

Zachary Ireland – Manitoba Schools Science Symposium – MB

Quantifying the Likelihood of Neutron Absorption Utilizing Radiative Capture Cross-Sections

Ryan Layton-Matthews – Frontenac, Lennox & Addington – ON

Walking on Thin Ice

Jonathan Leung – Greater Vancouver – BC

A Case Study of Wildlife Feeding and Coyote Attacks in Vancouver's Stanley Park

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Ziyu Li, Zipeng Li – Calgary Youth – AB
Tenebrio Molitor Polystyrene Foam Consumption - The Effect of Additional Nutritional Sources

Marissa Magsino – Manitoba Schools Science Symposium – MB
Behavioral modification of Tenebrio molitor by toxins to maximize the biodegradation of polystyrene

Oumaima Malih – Réseau Technoscience – QC
Réglisse et la durée de vie

Teddy Mao – Bay Area – ON
Transparent Wood: A Window to the Future?

Sia Mehta – Simcoe County – ON
Thermochromic Economics

Sebastien Menard – Frontenac, Lennox & Addington – ON
Roofing for a Green Future

Sarah Murimboh – Annapolis Valley – NS
The Effect of Fertilizers on the Hatch Success of Triops longicaudatus

Bach Nguyen – South-East New Brunswick – NB
Elevated Vehicle Routing in Reverse Logistics for Garbage Transportation in Saint John New Brunswick

Mark Norregaard – 4-H Canada – CA
A Comparison of Natural Corrosion Inhibitors on Metals

Evan Papps – Vancouver Island – BC
Can Slime Mold Adapt and Communicate?

Ria Patel – Ottawa – ON
BlueViolet: a wearable eye-health monitor to counter the unseen health effects of COVID-19

Sparsh Patel – Wood Buffalo – AB
FOCUS! - An EEG And ANN Powered Brain Sensing Headband For Accident Prevention

Kadhir Ponnambalam – Bay Area – ON
Effect Of Electrical Field On Tardigrades In A Microfluidic Environment

Reuel Ramalingam – YSC Virtual – CA
Pink to Brown - How to Prevent Concussions

Lauren Rasalingam – Ottawa – ON
Not on my back!

Kayla Salasidis – Réseau Technoscience – QC
OR in Focus: An Automatic Focusing Overhead Operating Room Light

Mohamed Saleh – Windsor – ON
Pumpkin Plastic

Parmin Sedigh – Frontenac, Lennox & Addington – ON
Exposure to glyphosate-based herbicide and zebrafish fin regeneration

Kevin Shao – Thames Valley – ON
A Computer Vision-Controlled Smart Robotic Arm

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Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Vedant Sheel – Bluewater – ON
Smart Solar Tracker!

Archie Shou, Edwin Wang – Toronto – ON
AI Object Location Recognition Software for the Blind

Graydon Strachan – Winnipeg Schools – MB
MAC: A Novel Method for Clinical Weight Estimation

Sarah Syed – Toronto – ON
Harnessing Nanotechnology in Biomass and Carboxyl Grouping for Water Remediation

Tamsen Taylor – Ottawa – ON
Dark Skies in Ottawa

Julia Valdez – West Kootenay & Boundary – BC
Does the BPM of Music Rather than the Type of Music Affect the Learning Process in Mice?

Yubo Wang, Matthew Zullo – York – ON
EyeInteract: Accessible Eye Tracking for the Physically Disabled Using Computer Vision

Nathan Yeung, Charlie Zhang – South Fraser – BC
Lento: Goal-Based Productivity

Tara Zhan – Greater Vancouver – BC
Medical Mo-Cap

Timothy Zhou – Calgary Youth – AB
Toilet Leak Detector

Bourse d'études de Western University

Sponsor: Université Western

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

Farhan Ahmed, Alexander Li – South Fraser – BC
The Methane Recycler

Nuha Akhand, Mariya Turetska – Waterloo-Wellington – ON
Inhibition of Cancer Cells Through Algae Derived EPA

Hassan Amir – Yukon Stikine – YT
Understanding the Impact of Opioid-Related Substances on Yukon Youth

Eunjo An – Vancouver Island – BC
Orange Peels as Biosorbents in the Treatment of Heavy Metal Wastewater

Silas Armstrong – Halifax – NS
House Dressing

Sebastian Audet – YSC Virtual – CA
Floating Heart is Breaking my Heart

Arham Aziz – Thames Valley – ON
Decrypting the facial code of Alzheimer's disease

Kaan Bektas – Toronto – ON
Collision Avoiding and Concussion Identifying Bicycle Helmet

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Rhea Bhalla – Calgary Youth – AB

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Parkinson's Spoon

Chloe Brodie – Calgary Youth – AB

Identifying Zinc-Containing Neurons to Widen Research into Zinc's Role in Neuroplasticity

Katie Buchel – Thames Valley – ON

Wonderous World of Angular Velocity: Diving Edition

Keanu Chan – East Kootenay – BC

Design, Implementation and Assessment of Novel universal Design Internal Spine Concept (NuDISC)

Morane Charbonneau – Réseau Technoscience – QC

I-Muno

Hannah Cheang – York – ON

Fish Powered Plant Growth

Kristin Cho – Toronto – ON

Inducement of Autoimmune Disease from Lead Exposure and Prevention Using Fermented Food Bacteria

Isla Corkum – Strait – NS

Which Light Is Right?

Sophia Croft – Halifax – NS

To Fry or not to Fry: Does Cooking Pollute Indoor Air?

Chloe Dafoe – Halifax – NS

Ocean Acidification

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Fabrication of Micro-Optical-Ring-Electrodes and their Application on Biological Samples

Param Dixit – Toronto – ON

Lost In Translation

Ava Fischer – Simcoe County – ON

COVID Coaster

Ishan Gehlaut – Toronto – ON

Using Regression Learning to predict Algal Blooms in the Great Lakes

Nuala Gibbs – United Counties – ON

L'impact du climat: Exploration de l'énergie éolienne

Pari Goyal, Lucie Li – Greater Vancouver – BC

Windblade

Islay Graham – Bluewater – ON

The National Helmet Expiry Inquiry

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Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Sadie Hanley – Ottawa – ON

Pitch Perfect: How Cold Temperature Affects the Frequency of Musical Notes

Marion Harvey – Réseau Technoscience – QC

Soulever à la force des fibres

Jordan Hussey – North-West New Brunswick – NB

It's going to be lit!

Nathan Janssen – Thames Valley – ON

Resisting Rust

Manorama Joshi – Wood Buffalo – AB

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Grace Ko – Toronto – ON

SoilTO: Using Statistical Analysis to Determine How Race and Income Affect Toronto's Soil Quality

Alexis Krasnova – Thames Valley – ON

Detection and prevention of triggers for photosensitive epilepsy seizures in YouTube videos

Frankie La Peter – East Kootenay – BC

'Peer'ing into Pressure

Alex Lea – Central Interior BC – BC

Sustainable Nutrient Regeneration: The Effects of Wood Ash and Nitrogen on Pasture Grass Nutrition

Maya LeBlanc – Bay Area – ON

Carbon Capture Depletion Using Catalyzed Photosynthesis to Promote Crop Growth

Seungmyoung Lee, Amyna Ismail – Toronto – ON

Eye Spy: A Novel Way to Predict & Detect Alzheimer's Disease

William Li – Greater Vancouver – BC

Development of a Novel Pesticide for Rice Blast Disease

Julia Mansiere – YSC Virtual – CA

Were Urban Heat Islands a Factor in the Deadliness of the Summer 2021 Heat Dome in British Columbia?

Claire Mantrop – Simcoe County – ON

Water Works

Nate Martin – Manitoba Schools Science Symposium – MB

To Mask or not to Mask? Why is that Even a Question?

LiLi Miko – Thames Valley – ON

Can't Afford Accuracy? A Three-Dimensional Printer for Sustainable Scavengers

Naila Moloo – Ottawa – ON

Forecasting the Power Output of Photovoltaic Systems

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Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Katharine Morley – Vancouver Island – BC
Coagulant Conundrum: Exploring the Efficacy of Natural and Chemical Coagulants on Microplastics

Elise Munro – Strait – NS
Lymeon: A Novel Way To Test Lyme Disease in Minutes

Annalise Musclow, Sydney Dobbin – Peterborough – ON
Quantitative Study of Microplastics in Jackson's Creek

Jora Singh Nahal – Cariboo Mainline – BC
Drowsiness Detection and Virtual Friend Speech-Robot for Safe Driving: A Novel App

Tri Nguyen, Rena Warren – Central Alberta Rotary – AB
SmartLifeJacket - An Automatic Inflating Life Jacket When The User Is In Distressed

Teighin Nordholt – South-East New Brunswick – NB
Modifying Cloud Chamber Technologies

Caden Oliphant – Thames Valley – ON
Masks Rock! Which Face Masks are More Effective?

Nicholas Pacifici – Bay Area – ON
Head On A Swivel 2.0: Brace For Impact

Natalie Parker – Northwestern Ontario – ON
Microplastics - A Big Little Problem

Dhyan Patel – Wood Buffalo – AB
Where What Goes: The combination of CV and AI to enhance the recycling experience.

Alpita Patro – Eastern Newfoundland – NL
Algae: The Future of Biofuel

Nadine Persad – West Kootenay & Boundary – BC
Development and Testing of a Novel Post Harvest Treatment

Kiran Prasad, Arushi Rawat – Lambton County – ON
SeaQuester: A Novel Approach to Increasing the Carbon Dioxide Absorption and Alkalinity of the Ocean

Philippe Provencher – Réseau Technoscience – QC
Le VéloTonome

Nishka Rai – Wood Buffalo – AB
Buzz! - An Affordable Chronic Wound Alert System

Timothy Riddolls – Ottawa – ON
Electromagnetic Pulse Effects on Non-Volatile Digital Memory

Hussain Rizvi – Regina – SK
Modelling Invasive Species Growth with Zebra Mussels

Ava Romano – Bay Area – ON
Can CAR T-Cell Therapy Be Used to Cure Alzheimer's Disease?

Onkit Saha – North-West New Brunswick – NB
Thermoelectric, Reusable, and Sustainable Heat cycle

Ella Sehn – Peterborough – ON
Vegetation Sanitation: Measuring the Impact of Oil Spills on Oxygen Production of Aquatic Plants

Récipiendaires des prix

Expo-sciences pancanadienne 2022

Virtuelle – Fredericton (Nouveau-Brunswick)



Margo Senchenko – South Fraser – BC

Attractive Cat Scratcher

Derek Sheen – Waterloo-Wellington – ON

A Novel Approach to Detecting Melanoma Using Deep Learning

Ken Shibata – Toronto – ON

Kyokukey: Wearable Input Device Using Conductive Threads

Aiden Shlien – Réseau Technoscience – QC

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Prabhnoor Sidhu – Central Interior BC – BC

Mitigating the Effects of Debris Flows

Sohila Sidhu – Windsor – ON

Proof of Concept: Artificial Pancreas for Patients with Diabetes

Anna Siekierzycki – Bluewater – ON

Corticosteroid Injections/ Hyaluronic Acid and Their Use in Performance Horses

Isaiah Sienna – Bay Area – ON

The Effects of Plastic Contamination in Plastic Water Bottles Due to Environmental Variables

Rachel Simantov – Calgary Youth – AB

Framework for Optimal Pandemic Management

Viduni Siriwardana – Greater Vancouver – BC

Novel, High-Yielding DNA Extraction Protocol via Automated Device to Provide Facile Forensic Analysis

Jaime So – Ottawa – ON

Testing Tampons. Toxic or Terrific?

Harshita Srikanth – Quinte – ON

Creativity = TRIZ!

Maya Sternin – Niagara – ON

What is your temperature?

Michaela Stillwell, Antonia Tannert von Baer – Central Interior BC – BC

The Effects of Microplastics on Phytoplankton

Grace Tuglavina – Labrador, Western & Central Newfoundland – NL

The domino effect-how changing ice patterns in the North have far reaching consequences

Alan Van – Toronto – ON

A Model for Medical Diagnosis Using Artificial Intelligence

Misha van Anders – Frontenac, Lennox & Addington – ON

Canoe believe it?

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An Acidic Future

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Effet des additifs au sel de voirie sur la réduction de la pollution routière

Sophia Zhang – Eastern Newfoundland – NL

Triboelectric Effect and Nanogenerator

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