

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Best Project Award

Sponsor: Youth Science Canada
Award, \$2,500 cash

Colette Benko [16] – Calgary Youth AB
Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Platinum Award - Best Intermediate Project

Sponsor: Youth Science Canada
Award, \$1,000 cash

Crystal K Radinski [16] – Calgary Youth AB
EEG Coherence as a Marker for Alzheimer's Dementia

Platinum Award - Best Junior Project

Sponsor: Youth Science Canada
Award, \$1,000 cash

Danish Mahmood [13] – Thames Valley ON
W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

Western University Scholarship

Gold Medallist - \$4000 Entrance Scholarship

Sponsor: Western University

An Entrance Scholarship of \$4,000 is offered to each winner of a Gold Medal; \$2,000 to each winner of a Silver Medal; and \$1,000 to each winner of a Bronze Medal.

Anika Achari [15] – Calgary Youth AB
Innovative Technology to Remove Emerging Contaminants from Drinking Water

Amal Aziz [15] – Thames Valley ON
Developing a Trojan Horse to Treat Alzheimer's Disease

Ariz Babul [14] – York ON
Sleep... Let's Get to the Brux of the Matter!

Danish Baig [17] – Waterloo-Wellington ON
Bio-friendly Antimicrobial Replacement to 2017 FDA Banned Drugs: Silver NP/CNC

Keiran Barr [14] – Frontenac, Lennox & Addington ON
Nicotinamide: Novel Skin Cancer Chemoprevention

Colette Benko [16] – Calgary Youth AB
Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Nora Boone [18] – Eastern Newfoundland NL
It's only Brain Surgery! 3D Printing: Developing a Craniotomy Simulation Tool

Léa Drolet-Roy [15] – Québec et Chaudière-Appalaches QC
Visualise ta voie

Rushi Gandhi [17], **Saharsh Hariharan** [17] – Peel ON
HapticNav: A Vibrotactile Navigation System for the Visually Impaired

Alexandra Harnagea [16] – Montérégie QC
Triboélectricité : repliez-vous!

Dennis Krasnov [16] – Thames Valley ON
Artificial Neural Network for Autonomous Driving

Yimeng Li [14] – Greater Vancouver BC
Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?

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Regina, Saskatchewan



-
- Justin Lin** [17] – Manitoba Schools Science Symposium MB
Peptide-Directed Knockdown of Misfolded SOD1 by Chaperone – Mediated
-
- Aaliyah Mahboubi** [13] – Pacific Northwest BC
Microbial-film Power Generation 2.0 – It's about to get cooler
-
- Danish Mahmood** [13] – Thames Valley ON
W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)
-
- Grant Mansiere** [17] – Central Okanagan BC
Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control
-
- Annie McLeod** [16] – Vancouver Island BC
Marine Brown Algae Extracted Fucoxanthin and Phlorotannin in DSSC
-
- Rohan Mehta** [12] – Simcoe County ON
A Device to Harness Kinetic Energy from Walking – The Next Generation
-
- Maya Mikutra-Cencora** [16] – Montréal RM QC
L'Alzheimer avant la plaque A β
-
- Bhavya Mohan** [14] – Ottawa ON
A Novel Lab on a Chip based PCR Sensor for Disease Diagnostics for Under \$1
-
- Tasnia Nabil** [16] – Windsor ON
A Novel Computational Tool to Advance Ferromagnetic NanoTherapy to Cure Cancer
-
- Crystal K Radinski** [16] – Calgary Youth AB
EEG Coherence as a Marker for Alzheimer's Dementia
-
- Anisha Rajaselvam** [13] – Halifax NS
The Answer to Cancer: Killing Breast Cancer Cells with Triptolide
-
- Joseph Saturnino** [14] – Bay Area ON
MSRS - Wearable Technology and IoT
-
- Evan Sharma** [13] – Frontenac, Lennox & Addington ON
MMO Cow: How microbiome changes can lower methane emissions from livestock
-
- Janani Venkat** [13] – Halifax NS
Antibacterial Effects of Microemulsified Essential Oils & Chitosan Nanoparticles
-
- Katelyn Wang** [15] – York ON
Efficient Design of Disposable Cough Filtration and Virus Containment Device
-
- Bowen Xue** [17] – Ottawa ON
Developing Aptamer-Based Targeted Imaging Probes for the Diagnosis of Stroke
-
- Ollie Zhao** [15] – Greater Vancouver BC
Amp Tree
-
- Matthew Zhou** [15] – Thames Valley ON
Neuroprotective Effect of Indomethacin against Glutamate Induced Excitotoxicity
-

Western University Scholarship

Silver Medallist - \$2000 Entrance Scholarship

Sponsor: Western University

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-
- Sparsh Agrawal** [14] – Manitoba Schools Science Symposium MB
Developing an Optimal Stock Trading Algorithm Using Data Mining Techniques

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Aditya Ayri [14] – Wood Buffalo AB
A Ray of Hope for Parkinson's

Naomie Azzi [13] – Ottawa ON
Béquilles-o-jnou

Terry Bariciak [17] – Algoma Rotary ON
Cinnamon Essential Oils - Natural Antibiotics

Clara Biernacki [13] – Renfrew County ON
Are You Eating Your Fleece? Exploring Microfibres and Filtration Systems

Jay Botham [13] – Greater Vancouver BC
The Effect of Hair Dye on Hair Strength

Stella Bowles [13] – South Shore NS
Oh, Poop! It's Worse Than I Thought!

Jonathan Cao [14] – Greater Vancouver BC
reduce, reuse, reCompass

Bill Chen [17] – Greater Vancouver BC
Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell

Paul Drakos [15] – Bay Area ON
The 'Helical Water Coil': A Residential and Commercial Thermoelectric Generator

Katie Du [17] – Edmonton AB
The Effect of DNA Repair Pathway Defects on Anti-Inflammatory Drug Response

Maria Duynisveld [16] – Chignecto East NS
The Dessert Effect: The Impact of Cattle Stocking on Herbage Intake & Selection

Faris Fizal [16] – Calgary Youth AB
Linalyl Acetate: A Novel Phytochemical Based Alternative to NSAIDs

Zane Frantzen [16] – Simcoe County ON
Passive Automated Diagnostic and Detection of Illness and Disease

Jérémie Gaudreault [13] – Québec et Chaudière-Appalaches QC
Gaudí 2.0 Logiciel pour la génération en 3D de colonnes d'apparence organique

Nicole Green [17] – Central Alberta AB
It's a Small World: The Influence of Culture Shock on International immigrants

Emily Gubski [17] – Calgary Youth AB
Inducing Delta 32 mutation in CCR5 T-cells to develop HIV immunity in patients

Anika Gupta [15] – Bay Area ON
A Novel Approach to Protect Dopamine Neurons Using a Peptide and Trophic Factor

Félicia Harvey [15] – Saguenay-Lac Saint-Jean QC
Une clé APortant la longévité?

Sophie Hoyer Pacholek [13] – Calgary Youth AB
Going Viral: Exploring and Inhibiting Viral Assembly

Thomas Imbeault-Nepton [16] – Saguenay-Lac Saint-Jean QC
P.A.L.I.A. contre les chutes

Dheiksha Jayasankar [12] – Niagara ON
NanoGrow: Nanoparticles as a Plant Growth Enhancer

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Krish Joshi [14] – Bay Area ON

Developing a Dermal Colorimetric Test Patch to Identify Iron Loss in Sweat

Sahana Kalidindi [14] – Windsor ON

Solar Potential Energy Storage & UV Filter Hybrid

Daniel Kornylo [13] – Northern Vancouver Island BC

High School Voltage

Rochelle Lariviere [13] – Sudbury ON

Du plomb dans la venaison

Léo Lechaume-Robert [16] – Québec et Chaudière-Appalaches QC

Si la petite mange la grosse

Phyllis Lesnikov [16] – Greater Vancouver BC

Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A. Thaliana

Louis-Philippe Belley [15], **Jonathan Lévesque** [16] – Québec et Chaudière-Appalaches QC

BlackFly: l'analyseur de gaz

Monica Lopez [14] – Calgary Youth AB

Serotonin controls mood-like responses in plants

Caroline Mahut [18] – Bay Area ON

Catch the Wave: Harnessing Electricity from Aqueous Sinusoidal Oscillations

Brendon Matusch [13] – Sudbury ON

Convolutional Neural Networks in Qualitative Quality Control Applications

Advait Maybhate [16] – Waterloo-Wellington ON

A New Approach to Motif Discovery

Neil Mitra [13] – Peel ON

iCane The Intelligent Cane: Alternative to Tactile Paving for the Blind

Sabrina Mogus [12] – Bay Area ON

Don't Feast on Your Fleece

Jodh Singh Nahal [13] – Cariboo Mainline BC

Powering My Small Devices From Soil Bacteria Using MFCs (Microbial Fuel Cells)

Finley Nakatsu [12] – Halifax NS

What a Drag - A study of the factors affecting a boat's drag through calm water

Dhvani Patel [17] – Wood Buffalo AB

SMART Agricultural Technology

Matthew Pilkey [14] – Frontenac, Lennox & Addington ON

Could taking vitamins be bad for you?

Sergiu Pocol [17] – Waterloo-Wellington ON

Air Gap Thickness and Torque Ripple Induced by Asymmetries

Jesse Pound [14], **Katarina Vuorensivu** [13] – South Fraser BC

The Technosleeve

Zwetlana Rajesh [15] – Renfrew County ON

Natural Insulin: A Novel Intervention for Sundowning in Alzheimer's Disease

Owen Randall [17] – Manitoba Schools Science Symposium MB

Improving ANN Accuracy by Optimizing Hyperparameters through Gradient Descent

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-
- Aaron Sarkar** [14] – Eastern Newfoundland NL
Evaluating the Effectiveness & Efficiency of a Graphene-Oxide Filtration System
-
- Marin Schultz** [16] – Lethbridge AB
Novel Prosthetic AutoGrasp Control System and Human-Prosthetic Interface
-
- Dhruvil Shah** [17] – Wood Buffalo AB
Enhancing Electrolysis: Discovering the Separation of the Faradic Currents
-
- Cheryl Chen** [12], **Stuti Sharma** [12] – South Fraser BC
Charma 2.0 – An Orbital Settlement
-
- Vedaant Srivastava** [14] – Ottawa ON
An Effective Artificial Muscle
-
- Bilun Sun** [18] – Montreal QC
Need a hand with that?
-
- Hareshan Suntharalingam** [16] – York ON
A New Vision For Diabetic Patients
-
- Kai Leong** [16], **Megan Syho** [15] – Greater Vancouver BC
An Ankle-Dorsiflexion Exercise Program to Improve Seniors' Balance and Gait
-
- Nattan Telmer** [14] – Vancouver Island BC
Powering Animal Trackers With Thermal Electric Generators (TEGs)
-
- Atif Mahmud** [17], **Zachary Trefler** [16] – Waterloo-Wellington ON
NeurAlgae: A Novel Approach to Harmful Algal Bloom Prediction
-
- Benjamin Waldie** [15] – Bay Area ON
Capturing Waste Energy from a Home Furnace using a Thermoelectric Generator
-
- Elisa Ward** [13] – Windsor ON
Pollution Evolution Solution
-
- David Wu** [15] – Thames Valley ON
Sensitizing Human Tumour Cells to Cancer Drugs with Cranberry Flavonoids
-
- Tim Wu** [16] – Calgary Youth AB
Exploring the Novel Use of Eggshells to Address Organic Solar Cell Instability
-
- Ben Xie** [17] – Simcoe County ON
A Computerized Traffic Light Detector
-
- Winnie Xu** [17] – South Fraser BC
Function of Podocalyxin in the Maintenance of the Blood Brain Barrier
-
- Austin Wu** [15], **Kamron Zaidi** [15] – York ON
A Comparative Analysis of Hydroponics, Aeroponics, and Fogponics on Plant Growth

Western University Scholarship

Bronze Medallist - \$1000 Entrance Scholarship

Sponsor: Western University

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Ethan Aarts [14] – Avon Maitland-Huron Perth ON
If You Shake It, You Break It

Om Agarwal [14] – Halifax NS
Automotive Collision Detection Network

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Janani Anandan [13] – Peel ON <i>Green Power of Cactus</i>
Shaaf Babar [12] – Wood Buffalo AB <i>Street Smart</i>
Kevin Bai [15] – Northwestern Ontario ON <i>A Novel Eye Tracking System Robust to Head Movements</i>
Clark Bains [15] – Rideau-St. Lawrence ON <i>The Breaking Point: Increasing Circuit Efficiency and Reducing Heat</i>
Deandre Baker [16], Tanish Wadhwa [15] – Peel ON <i>Smart Helmet which measures acceleration to detect minor & major brain damage</i>
Laney Beaulieu [17] – South Slave NT <i>Risk Factors of, and Recommendations for, Alcoholism in Fort Resolution, NT</i>
Andrew Benn [12] – Thames Valley ON <i>Magnetic Fields and Fluid Flow</i>
John Berger [16] – Southeast Alberta AB <i>A Graphic User Interface for the Retrieval of Genomic Information</i>
Ahmad Almawi [16], Dhyey Bhavsar [16] – Peel ON <i>VOLTurus: Power Generation and Water Desalination</i>
Emilie Bordeleau McCallum [13] – Ottawa ON <i>Cancer Free</i>
Jacob Bowman [15] – Peterborough ON <i>Fish or chips: brook trout in Harper Creek</i>
Hannah Bryant [13] – Chignecto East NS <i>Plant Grafting</i>
Lauren Bunt [13] – Quinte ON <i>Feed Bucket Preference and its Impact on Equine Medication Rejection</i>
William Campbell [14] – Kivalliq NU <i>Sea Fuel</i>
Anastasia Castro [14] – Vancouver Island BC <i>Fluctuation of Oceanic Microplastics at Depth and Effects on Marine Ecosystems</i>
Ella Chan [16] – Vancouver Island BC <i>Oral Infections: Does lactoferrin inhibit the bactericidal action of eugenol?</i>
Melody Cheng [16] – Vancouver Island BC <i>A New Phase of Water: Is this measurable with surface tension?</i>
Victoria Chouinard [17] – Québec et Chaudière-Appalaches QC <i>L'ADNe... Euh! C'est quoi?</i>
Kurtis Collins [16] – Eastern Newfoundland NL <i>Flaxseed-Derived Lignan SDG Protects Human Colon Cells from ROS mtDNA</i>
Laura Cunningham [13] – Greater Vancouver BC <i>Salt in Fast Food: No Great Shakes for Your Health</i>
Nisarg Dave [17] – Eastern Newfoundland NL <i>A Blue Biorefinery Approach: Marine Nutraceuticals from Salmon Waste Resources</i>

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Noah Davidson [14] – St. James-Assiniboia MB
Material Swings

Kavisha Dayarathna [16] – Thames Valley ON
Spices are Key to be Kidney Stone Free

Skye Dusolt [15] – Northwestern Ontario ON
Steam with Nanoparticles

Frances Emery [16] – Peterborough ON
Do Kingdoms Speak the Same Language; Are Phytohormones Mycohormones?

Nicolas Fedrigo [16] – Vancouver Island BC
Stroke Rehabilitation Exoskeleton

Jaden Ford [17] – Northern British Columbia BC
CO₂NSEQUENCES

Sebastien Galand [13] – Montreal QC
Bridging The Gap

Matthias Gasser [14] – Canadian Rockies AB
Not Just a Flutter in the Wind

Siddhant Gautam [16] – Edmonton AB
Cool Peptides – A novel approach to cryopreservation of organs

Soheil Ghaffari [15] – South Shore NS
Bitten by Lyme Disease

Azin Dolatabadi [15], **Jaslin Ghotra** [17] – Southeast Alberta AB
A Seed-E Alternative to Water Treatment

Eve Gilbert [13] – Simcoe County ON
Independence Plus: A Mobility Aid

Mihir Gothai [14] – Edmonton AB
Bioavailability of Chia Seeds

Megan Gran [17] – Sudbury ON
Robotic Innovations Can Change Lives by Completing Common Tasks

Lénárd Grossmann [13] – Edmonton AB
Swarm Robotics: How Robots Cooperate

Yassin Guitouni [15] – Vancouver Island BC
The KNEEd for Power: Harvesting Biomechanical Energy

Mehul Gupta [17] – Calgary Youth AB
Liquid Biopsy: A Novel Diagnostic Technique for Atypical Teratoid/Rhabdoid Tumor

Neha Gupta [12] – Bay Area ON
Development of a Portable System for Detection of Bacteria Using DNA Biomarkers

Jonah Haliburton [13] – Greater Vancouver BC
The Anchovy: Remotely Operated Submersible

Jacob Harvey [17] – Winnipeg Schools MB
*Medium Optimization for Cheap, Novel Bioplastic Production From *P. Putida**

Kristi Hayko [17] – Regina SK
Landfill Optimization: Converting Solid Waste to Energy

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Regina, Saskatchewan



-
- Chloe Carriere** [17], **Caitlin Howard** [18] – North Bay ON
The effect of Urtica dioica on the Alzheimer profile in Drosophila melanogaster
-
- YaWen Huang** [17] – Winnipeg Schools MB
Secreted APP α as a Therapeutic for Diabetic Encephalopathy
-
- Hillary Huynh** [14] – Yellowknife NT
Quelle est la durée de la mémoire des visages
-
- Marina Ilyas** [13] – Waterloo-Wellington ON
Phixing Physio
-
- Liam Ingram** [13] – West Kootenay & Boundary BC
Can We Fish Better?
-
- Ayanna Jeyakanthan** [12] – Durham ON
The Effects of Microwave Radiation
-
- Melanie Jonnalagadda** [17] – Thames Valley ON
Glucose-Induced Expression of Endothelin 1 & its Relation to Diabetic Retinopathy
-
- Etienne Joulin** [14] – Bluewater ON
Musical Personality
-
- Eungyung Kim** [14] – Central Interior British Columbia BC
Reclamation: A systems change to waste management in the operating room
-
- Atanas Kolev** [15] – Regina SK
Orbital Eccentricity and Solar Energy
-
- Tharindu Kottegoda** [14] – St. James-Assiniboia MB
Energy Harnessing Backpack
-
- Marie-Pier Lacroix** [15], **Sophie Lacroix** [15] – Montréal RM QC
Attention, bébé à bord!
-
- Caleb Lammers** [15] – Northwestern Ontario ON
Zipf's Law Tested Across Age Groups
-
- Darshana Lanke** [14] – Saskatoon SK
Comparative Study Characterizing Wheat Allergenicity in Ancient and Modern Wheat
-
- Neleah Lavoie** [13] – 4-H Canada ON
Cost-Effective Extraction of Chitin from Lobster Shells
-
- Sandrine Leblanc-Savignac** [17] – Montréal RM QC
Pesticides MenaSangs
-
- Samuel Lefrançois** [15] – Districts francophones du Nouveau-Brunswick NB
La motivation du harle huppé à choisir où mettre tous ses œufs
-
- Andrew Li** [13], **Jeremy Xie** [14] – Toronto ON
Self-Sustaining Aquaponics System
-
- Kevin Liu** [13] – Toronto ON
Flowing Through Distinct Watersheds
-
- Lia Loebenberg** [16] – Montreal QC
Division: Impossible (Discovering Cancer's Dependencies for Targeted Treatments)
-
- Edward Lombo** [14] – Bay Area ON
Electrochemical Synthesis of Ammonia

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Claire Larson [15], Leah Macfarlane [15] – Southeast Saskatchewan SK
Alzheimer's and Visual Perception

Monica Mahut [15] – Bay Area ON
GEARS: Gravitational Electricity Accumulating Renewable Storage

Khadija Manji [13], Zoha Sojoudi [14] – York ON
Sugar or Spice?

Rachel Manzon [13] – Regina SK
Thermal Tolerance in Lake Whitefish Embryos

Connor Maxwell [14] – Bluewater ON
Hydrological Analysis of Streamflow and Potential Effects of Climate Change

Connor McCourt [12] – Bay Area ON
Grow With the Flow

Catriona McIntosh [12] – Calgary Youth AB
How Attachment Affects Informed Risk Taking in Adolescents

Ruth Meyer [14] – Waterloo-Wellington ON
Concede to Me! The Effect of Exit – Signalling on Yield Rates in Roundabouts

Correne Minty [16] – Central Alberta AB
Hydrogen Sulphide Sensing

Meera Moorthy [15] – Quinte ON
Shrubs on Drugs

Emallie Morin-Barich [16] – Fransaskoise SK
L'effet des détergents verts sur les écosystèmes aquatiques

Anmol Nagra [13] – Windsor ON
To Bandage or Not to Bandage?

Ayana Nanthakumar [13] – Peel ON
Keep it Cold and Keep it Clean

Harry Parmar [13] – York ON
Viola-Bac; Power of Synthetic Biology in Real World

Akshay Patel [17] – Niagara ON
The Role of Proctolin in Turning Behaviour of Drosophila Melanogaster Larvae

Catherine Plante [16] – Saguenay-Lac Saint-Jean QC
Les bactéries ont la solution!

John Poole [15] – Canadian Rockies AB
The Effects of Oil on Mycelial Production of Lignin Peroxidase

Alexandra Pimentel [15], Noémie Poulin [15] – Outaouais QC
Une bouteille d'eau bio

Emeric Proulx [17] – Rive-Nord QC
Hydropulsoréacteur

Eshan Rasul [12] – Peel ON
Vitamins: Friend or Foe of Your Gut

Angie Redford [15], Anna Schwartz [17] – Sunset Country ON
A "Minor" Experiment with "Major" Results

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-
- Waleed Sawan** [15] – Thames Valley ON
Drip – A Precision Agriculture System for the Developing World
-
- Monis Sayyid** [12], **Jack Sloan** [13] – Rideau-St. Lawrence ON
Learn The Burn
-
- Nicole Schmidt** [17] – Calgary Youth AB
Optimizing Fluid Flow Systems
-
- Rohan Sethi** [14] – Manitoba Schools Science Symposium MB
Effects of Faba Bean Ingredients on Glycemia and Satiety in Novel Food Products
-
- Devarsh Shah** [14] – Lambton County ON
A Novel Approach to Non-Invasive Glucose Measurement
-
- Noha Shehata** [16] – Eastern Newfoundland NL
A Novel Way to Recycle Shrimp Shells into Biodegradable Plastic
-
- Thanusha Balasubramaniyam** [16], **Taushia Siddique** [17] – Rive-Nord QC
L'or vert du sang blanc?
-
- Raphaël Cloutier** [18], **Liam Simard** [17] – Québec et Chaudière-Appalaches QC
M.A.R.K.
-
- Rory Smith** [16] – East Kootenay BC
Nuclei Oxidation Therapy: A New Take on Localized Antineoplastics
-
- Mathilde St-Jean Perron** [13] – Estrie QC
Cric Crac Croc, on se déhanche
-
- Dylex Suan** [14] – Bay Area ON
Ameliorating Salinity Tolerance in Broccoli Plants by Acclimation
-
- Emmeraude Tanguay** [16] – Côte-Nord QC
Enfants: esclaves virtuels?
-
- Rahman Tawhid** [16] – Cariboo Mainline BC
A Novel Method in Predicting Chronic Disease
-
- Olivia Calbeck** [14], **Julie Taylor** [14] – Bay Area ON
One Step at a Time
-
- Kayli Taylor** [13] – 4-H Canada ON
Water Erosion: Will Wood Chips Help Prevent Surface Water Erosion?
-
- Kyra Taylor** [16] – 4-H Canada ON
Hydroponic Forage: A Feasible Equine Feed Alternative
-
- Norah Trinh** [13] – Lethbridge AB
The Piezoelectric Shoe: Energy from Motion
-
- Joseph Trottier** [16] – Sudbury ON
Connaitre son poids ne suffit pas
-
- Reid Tull** [13] – Algoma Rotary ON
Perpetual Motion
-
- Joy Shah** [17], **Parth Vachharajani** [17] – Lambton County ON
Riding the Fluoride
-
- Katherine van Kampen** [18] – Central Okanagan BC
Slowing Neuronal Degeneration

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Jessica Vaszily [18] – South Shore NS

Epigenetics Has Exercise Knocking on its Door

Juliette Péloquin [16], **Marie-Philippe Villiard** [16] – Montérégie QC

Asclépiade, un cas isolé

Kendra Prasad [15], **Rizky Wahyudi** [17] – Lambton County ON

Flexi Golf: Innovative Golfer's Stabilizing Stand

Olivia Wallace [13] – Ottawa ON

Catch the Flow

Charles Wang [16], **Spencer Zezulka** [16] – South Fraser BC

*Solar-Powered Production of Clean Fuel by the Fermentation of *C. acetobutylicum**

Bob Wei [17] – Niagara ON

Solitary Wave Propagation in a Novel Granular Chain Setup

Ethan White [15] – Waterloo-Wellington ON

CPU Load Covert Channels Exploiting Interrupt Latency

Nethra Wickramasinghe [13] – Sudbury ON

Hot Air Insu-Layer

Jordan Winter [17] – Algoma Rotary ON

Destructor destruction: Could this Bee the end?

Elesha Wood [17] – Tri-County NS

Stimulation of the Vagus Nerve Through Targeted Temperature Therapy

Himanshu Sharma [17], **Derek Yin** [18] – Manitoba Schools Science Symposium MB

ReefHub: A Novel Autonomous Coral Reef Conservation System

Ahnais Young [14] – Prince Edward Island PE

Cerebral Hemispheric Lateralization in Relation to Handedness

Selina Zhou [16] – Greater Vancouver BC

Changes in Volatile Organic Compounds Emission Under Stressed Conditions

University of Ottawa Entrance Scholarship

Senior Gold Medallist - \$4,000 Entrance Scholarship

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Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Nora Boone [18] – Eastern Newfoundland NL

It's only Brain Surgery! 3D Printing: Developing a Craniotomy Simulation Tool

Rushi Gandhi [17], **Saharsh Hariharan** [17] – Peel ON

HapticNav: A Vibrotactile Navigation System for the Visually Impaired

Alexandra Harnagea [16] – Montérégie QC

Triboélectricité : repliez-vous!

Dennis Krasnov [16] – Thames Valley ON

Artificial Neural Network for Autonomous Driving

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Peptide-Directed Knockdown of Misfolded SOD1 by Chaperone – Mediated

Grant Mansiere [17] – Central Okanagan BC
Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control

Tasnia Nabil [16] – Windsor ON
A Novel Computational Tool to Advance Ferromagnetic NanoTherapy to Cure Cancer

Bowen Xue [17] – Ottawa ON
Developing Aptamer-Based Targeted Imaging Probes for the Diagnosis of Stroke

University of Ottawa Entrance Scholarship

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Cinnamon Essential Oils - Natural Antibiotics

Bill Chen [17] – Greater Vancouver BC
Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell

Katie Du [17] – Edmonton AB
The Effect of DNA Repair Pathway Defects on Anti-Inflammatory Drug Response

Zane Frantzen [16] – Simcoe County ON
Passive Automated Diagnostic and Detection of Illness and Disease

Nicole Green [17] – Central Alberta AB
It's a Small World: The Influence of Culture Shock on International immigrants

Emily Gubski [17] – Calgary Youth AB
Inducing Delta 32 mutation in CCR5 T-cells to develop HIV immunity in patients

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Air Gap Thickness and Torque Ripple Induced by Asymmetries

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Enhancing Electrolysis: Discovering the Separation of the Faradic Currents

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Bilun Sun [18] – Montreal QC
Need a hand with that?

Atif Mahmud [17], **Zachary Trefler** [16] – Waterloo-Wellington ON
NeurAlgae: A Novel Approach to Harmful Algal Bloom Prediction

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A Computerized Traffic Light Detector

Winnie Xu [17] – South Fraser BC
Function of Podocalyxin in the Maintenance of the Blood Brain Barrier

University of Ottawa Entrance Scholarship

Senior Bronze Medallist - \$1000 Entrance Scholarship

Sponsor: University of Ottawa

The University of Ottawa offers entrance scholarships of \$4,000 to each gold medal winning senior finalist; \$2,000 to each silver medal winning senior finalist; and \$1,000 to each bronze medal winning senior finalist.

Laney Beaulieu [17] – South Slave NT
Risk Factors of, and Recommendations for, Alcoholism in Fort Resolution, NT

John Berger [16] – Southeast Alberta AB
A Graphic User Interface for the Retrieval of Genomic Information

Ahmad Almawi [16], **Dhyey Bhavsar** [16] – Peel ON
VOLTurus: Power Generation and Water Desalination

Ella Chan [16] – Vancouver Island BC
Oral Infections: Does lactoferrin inhibit the bactericidal action of eugenol?

Victoria Chouinard [17] – Québec et Chaudière-Appalaches QC
L'ADNe... Euh! C'est quoi?

Kurtis Collins [16] – Eastern Newfoundland NL
Flaxseed-Derived Lignan SDG Protects Human Colon Cells from ROS mtDNA

Nisarg Dave [17] – Eastern Newfoundland NL
A Blue Biorefinery Approach: Marine Nutraceuticals from Salmon Waste Resources

Frances Emery [16] – Peterborough ON
Do Kingdoms Speak the Same Language; Are Phytohormones Mycohormones?

Jaden Ford [17] – Northern British Columbia BC
CO2NSEQUENCES

Siddhant Gautam [16] – Edmonton AB
Cool Peptides – A novel approach to cryopreservation of organs

Azin Dolatabadi [15], **Jaslin Ghotra** [17] – Southeast Alberta AB
A Seed-E Alternative to Water Treatment

Megan Gran [17] – Sudbury ON
Robotic Innovations Can Change Lives by Completing Common Tasks

Mehul Gupta [17] – Calgary Youth AB
Liquid Biopsy: A Novel Diagnostic Technique for Atypical Teratoid/Rhabdoid Tumor

Jacob Harvey [17] – Winnipeg Schools MB
Medium Optimization for Cheap, Novel Bioplastic Production From P. Putida

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



-
- Kristi Hayko** [17] – Regina SK
Landfill Optimization: Converting Solid Waste to Energy
-
- Chloe Carriere** [17], **Caitlin Howard** [18] – North Bay ON
*The effect of *Urtica dioica* on the Alzheimer profile in *Drosophila melanogaster**
-
- YaWen Huang** [17] – Winnipeg Schools MB
Secreted APP α as a Therapeutic for Diabetic Encephalopathy
-
- Melanie Jonnalagadda** [17] – Thames Valley ON
Glucose-Induced Expression of Endothelin 1 & its Relation to Diabetic Retinopathy
-
- Sandrine Leblanc-Savignac** [17] – Montréal RM QC
Pesticides MenaSangs
-
- Lia Loebenberg** [16] – Montreal QC
Division: Impossible (Discovering Cancer's Dependencies for Targeted Treatments)
-
- Correne Minty** [16] – Central Alberta AB
Hydrogen Sulphide Sensing
-
- Emallie Morin-Barich** [16] – Fransaskoise SK
L'effet des détergents verts sur les écosystèmes aquatiques
-
- Akshay Patel** [17] – Niagara ON
*The Role of Proctolin in Turning Behaviour of *Drosophila Melanogaster* Larvae*
-
- Emeric Proulx** [17] – Rive-Nord QC
Hydropulsoréacteur
-
- Angie Redford** [15], **Anna Schwartz** [17] – Sunset Country ON
A "Minor" Experiment with "Major" Results
-
- Nicole Schmidt** [17] – Calgary Youth AB
Optimizing Fluid Flow Systems
-
- Noha Shehata** [16] – Eastern Newfoundland NL
A Novel Way to Recycle Shrimp Shells into Biodegradable Plastic
-
- Thanusha Balasubramaniyam** [16], **Taushia Siddique** [17] – Rive-Nord QC
L'or vert du sang blanc?
-
- Raphaël Cloutier** [18], **Liam Simard** [17] – Québec et Chaudière-Appalaches QC
M.A.R.K.
-
- Emmeraude Tanguay** [16] – Côte-Nord QC
Enfants: esclaves virtuels?
-
- Joy Shah** [17], **Parth Vachharajani** [17] – Lambton County ON
Riding the Fluoride
-
- Katherine van Kampen** [18] – Central Okanagan BC
Slowing Neuronal Degeneration
-
- Jessica Vaszily** [18] – South Shore NS
Epigenetics Has Exercise Knocking on its Door
-
- Kendra Prasad** [15], **Rizky Wahyudi** [17] – Lambton County ON
Flexi Golf: Innovative Golfer's Stabilizing Stand
-
- Charles Wang** [16], **Spencer Zzulka** [16] – South Fraser BC
*Solar-Powered Production of Clean Fuel by the Fermentation of *C. acetobutylicum**

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Bob Wei [17] – Niagara ON

Solitary Wave Propagation in a Novel Granular Chain Setup

Jordan Winter [17] – Algoma Rotary ON

Destructor destruction: Could this Bee the end?

Elesha Wood [17] – Tri-County NS

Stimulation of the Vagus Nerve Through Targeted Temperature Therapy

Himanshu Sharma [17], **Derek Yin** [18] – Manitoba Schools Science Symposium MB

ReefHub: A Novel Autonomous Coral Reef Conservation System

Selina Zhou [16] – Greater Vancouver BC

Changes in Volatile Organic Compounds Emission Under Stressed Conditions

University of Manitoba Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: University of Manitoba

The Office of the Vice-President (Research and International) at the University of Manitoba offers a renewable entrance scholarship for students who have been awarded a Gold Medal for a senior project at the Youth Science Canada's - Canada-Wide Science Fair.

The award is renewable, at the same value, in the second year of study provided that the recipient:

1. continues to be enrolled full-time (minimum 24 credit hours) in any faculty or school, excepting the Faculty of Graduate Studies;

Danish Baig [17] – Waterloo-Wellington ON

Bio-friendly Antimicrobial Replacement to 2017 FDA Banned Drugs: Silver NP/CNC

Colette Benko [16] – Calgary Youth AB

Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Nora Boone [18] – Eastern Newfoundland NL

It's only Brain Surgery! 3D Printing: Developing a Craniotomy Simulation Tool

Rushi Gandhi [17], **Saharsh Hariharan** [17] – Peel ON

HapticNav: A Vibrotactile Navigation System for the Visually Impaired

Alexandra Harnagea [16] – Montérégie QC

Triboélectricité : repliez-vous!

Dennis Krasnov [16] – Thames Valley ON

Artificial Neural Network for Autonomous Driving

Justin Lin [17] – Manitoba Schools Science Symposium MB

Peptide-Directed Knockdown of Misfolded SOD1 by Chaperone – Mediated

Grant Mansiere [17] – Central Okanagan BC

Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control

Tasnia Nabil [16] – Windsor ON

A Novel Computational Tool to Advance Ferromagnetic NanoTherapy to Cure Cancer

Bowen Xue [17] – Ottawa ON

Developing Aptamer-Based Targeted Imaging Probes for the Diagnosis of Stroke

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



UBC Science (Vancouver) Entrance Award

Senior Gold Medallist - \$4000 Entrance Scholarship

Sponsor: The University of British Columbia (Vancouver)

A UBC Vancouver Science entrance scholarship is offered, \$4,000 to each senior gold medalist and \$2,000 to each senior silver medalist. To be eligible for the scholarships, finalists must be admitted to the UBC Faculty of Science (Vancouver campus) and register directly from secondary school. Winners who are in grade eleven may defer the award for one year.

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UBC Science (Vancouver) Entrance Award

Senior Silver Medallist - \$2000 Entrance Scholarship

Sponsor: The University of British Columbia (Vancouver)

A UBC Vancouver Science entrance scholarship is offered, \$4,000 to each senior gold medalist and \$2,000 to each senior silver medalist. To be eligible for the scholarships, finalists must be admitted to the UBC Faculty of Science (Vancouver campus) and register directly from secondary school. Winners who are in grade eleven may defer the award for one year.

Terry Bariciak [17] – Algoma Rotary ON

Cinnamon Essential Oils - Natural Antibiotics

Bill Chen [17] – Greater Vancouver BC

Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell

Katie Du [17] – Edmonton AB

The Effect of DNA Repair Pathway Defects on Anti-Inflammatory Drug Response

Zane Frantzen [16] – Simcoe County ON

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Canada-Wide Science Fair 2017

Regina, Saskatchewan



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A Computerized Traffic Light Detector

Winnie Xu [17] – South Fraser BC
Function of Podocalyxin in the Maintenance of the Blood Brain Barrier

Dalhousie University Faculty of Science Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: Dalhousie University, Faculty of Science

A Dalhousie University Faculty of Science entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist.

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Developing Aptamer-Based Targeted Imaging Probes for the Diagnosis of Stroke

Dalhousie University Faculty of Science Entrance Scholarship

Senior Silver Medallist - \$2500 Entrance Scholarship

Sponsor: Dalhousie University, Faculty of Science

A Dalhousie University Faculty of Science entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist.

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Function of Podocalyxin in the Maintenance of the Blood Brain Barrier

Excellence Award - Senior

Gold Medal

Sponsor: Youth Science Canada

Medal, \$250 cash and certificate

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Developing Aptamer-Based Targeted Imaging Probes for the Diagnosis of Stroke

Excellence Award - Intermediate

Gold Medal

Sponsor: Youth Science Canada

Medal, \$250 cash and certificate

Anika Achari [15] – Calgary Youth AB

Innovative Technology to Remove Emerging Contaminants from Drinking Water

Amal Aziz [15] – Thames Valley ON

Developing a Trojan Horse to Treat Alzheimer's Disease

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Léa Drolet-Roy [15] – Québec et Chaudière-Appalaches QC
Visualise ta voie

Yimeng Li [14] – Greater Vancouver BC
Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?

Annie McLeod [16] – Vancouver Island BC
Marine Brown Algae Extracted Fucoxanthin and Phlorotannin in DSSC

Maya Mikutra-Cencora [16] – Montréal RM QC
L'Alzheimer avant la plaque A β

Crystal K Radinski [16] – Calgary Youth AB
EEG Coherence as a Marker for Alzheimer's Dementia

Katelyn Wang [15] – York ON
Efficient Design of Disposable Cough Filtration and Virus Containment Device

Ollie Zhao [15] – Greater Vancouver BC
Amp Tree

Matthew Zhou [15] – Thames Valley ON
Neuroprotective Effect of Indomethacin against Glutamate Induced Excitotoxicity

Excellence Award - Junior

Gold Medal

Sponsor: Youth Science Canada
Medal, \$250 cash and certificate

Ariz Babul [14] – York ON
Sleep... Let's Get to the Brux of the Matter!

Keiran Barr [14] – Frontenac, Lennox & Addington ON
Nicotinamide: Novel Skin Cancer Chemoprevention

Aaliyah Mahboubi [13] – Pacific Northwest BC
Microbial-film Power Generation 2.0 – It's about to get cooler

Danish Mahmood [13] – Thames Valley ON
W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

Rohan Mehta [12] – Simcoe County ON
A Device to Harness Kinetic Energy from Walking – The Next Generation

Bhavya Mohan [14] – Ottawa ON
A Novel Lab on a Chip based PCR Sensor for Disease Diagnostics for Under \$1

Anisha Rajaselvam [13] – Halifax NS
The Answer to Cancer: Killing Breast Cancer Cells with Triptolide

Joseph Saturnino [14] – Bay Area ON
MSRS - Wearable Technology and IoT

Evan Sharma [13] – Frontenac, Lennox & Addington ON
MMO Cow: How microbiome changes can lower methane emissions from livestock

Janani Venkat [13] – Halifax NS
Antibacterial Effects of Microemulsified Essential Oils & Chitosan Nanoparticles

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Excellence Award - Senior

Silver Medal

Sponsor: Youth Science Canada

Medal and certificate

Terry Barciak [17] – Algoma Rotary ON

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Tim Wu [16] – Calgary Youth AB

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Ben Xie [17] – Simcoe County ON

A Computerized Traffic Light Detector

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Canada-Wide Science Fair 2017

Regina, Saskatchewan



Winnie Xu [17] – South Fraser BC
Function of Podocalyxin in the Maintenance of the Blood Brain Barrier

Excellence Award - Intermediate

Silver Medal

Sponsor: Youth Science Canada

Medal and certificate

Aditya Ayri [14] – Wood Buffalo AB
A Ray of Hope for Parkinson's

Jonathan Cao [14] – Greater Vancouver BC
reduce, reuse, reCompass

Paul Drakos [15] – Bay Area ON
The 'Helical Water Coil': A Residential and Commercial Thermoelectric Generator

Maria Duynisveld [16] – Chignecto East NS
The Dessert Effect: The Impact of Cattle Stocking on Herbage Intake & Selection

Faris Fizal [16] – Calgary Youth AB
Linalyl Acetate: A Novel Phytochemical Based Alternative to NSAIDs

Anika Gupta [15] – Bay Area ON
A Novel Approach to Protect Dopamine Neurons Using a Peptide and Trophic Factor

Félicia Harvey [15] – Saguenay-Lac Saint-Jean QC
Une clé APortant la longévité?

Sahana Kalidindi [14] – Windsor ON
Solar Potential Energy Storage & UV Filter Hybrid

Léo Lechaume-Robert [16] – Québec et Chaudière-Appalaches QC
Si la petite mange la grosse

Louis-Philippe Belley [15], Jonathan Lévesque [16] – Québec et Chaudière-Appalaches QC
BlackFly: l'analyseur de gaz

Monica Lopez [14] – Calgary Youth AB
Serotonin controls mood-like responses in plants

Brendon Matusch [13] – Sudbury ON
Convolutional Neural Networks in Qualitative Quality Control Applications

Zwetlana Rajesh [15] – Renfrew County ON
Natural Insulin: A Novel Intervention for Sundowning in Alzheimer's Disease

Aaron Sarkar [14] – Eastern Newfoundland NL
Evaluating the Effectiveness & Efficiency of a Graphene-Oxide Filtration System

Hareshan Suntharalingam [16] – York ON
A New Vision For Diabetic Patients

Kai Leong [16], Megan Syho [15] – Greater Vancouver BC
An Ankle-Dorsiflexion Exercise Program to Improve Seniors' Balance and Gait

Nattan Telmer [14] – Vancouver Island BC
Powering Animal Trackers With Thermal Electric Generators (TEGs)

Benjamin Waldie [15] – Bay Area ON
Capturing Waste Energy from a Home Furnace using a Thermoelectric Generator

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



David Wu [15] – Thames Valley ON

Sensitizing Human Tumour Cells to Cancer Drugs with Cranberry Flavonoids

Austin Wu [15], **Kamron Zaidi** [15] – York ON

A Comparative Analysis of Hydroponics, Aeroponics, and Fogponics on Plant Growth

Excellence Award - Junior

Silver Medal

Sponsor: Youth Science Canada

Medal and certificate

Sparsh Agrawal [14] – Manitoba Schools Science Symposium MB

Developing an Optimal Stock Trading Algorithm Using Data Mining Techniques

Naomie Azzi [13] – Ottawa ON

Béquilles-o-jnou

Clara Biernacki [13] – Renfrew County ON

Are You Eating Your Fleece? Exploring Microfibres and Filtration Systems

Jay Botham [13] – Greater Vancouver BC

The Effect of Hair Dye on Hair Strength

Stella Bowles [13] – South Shore NS

Oh, Poop! It's Worse Than I Thought!

Jérémie Gaudreault [13] – Québec et Chaudière-Appalaches QC

Gaudí 2.0 Logiciel pour la génération en 3D de colonnes d'apparence organique

Sophie Hoye Pacholek [13] – Calgary Youth AB

Going Viral: Exploring and Inhibiting Viral Assembly

Dheiksha Jayasankar [12] – Niagara ON

NanoGrow: Nanoparticles as a Plant Growth Enhancer

Krish Joshi [14] – Bay Area ON

Developing a Dermal Colorimetric Test Patch to Identify Iron Loss in Sweat

Daniel Kornylo [13] – Northern Vancouver Island BC

High School Voltage

Rochelle Lariviere [13] – Sudbury ON

Du plomb dans la venaison

Neil Mitra [13] – Peel ON

iCane The Intelligent Cane: Alternative to Tactile Paving for the Blind

Sabrina Mogus [12] – Bay Area ON

Don't Feast on Your Fleece

Jodh Singh Nahal [13] – Cariboo Mainline BC

Powering My Small Devices From Soil Bacteria Using MFCs (Microbial Fuel Cells)

Finley Nakatsu [12] – Halifax NS

What a Drag - A study of the factors affecting a boat's drag through calm water

Matthew Pilkey [14] – Frontenac, Lennox & Addington ON

Could taking vitamins be bad for you?

Jesse Pound [14], **Katarina Vuorensivu** [13] – South Fraser BC

The Technosleeve

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Cheryl Chen [12], Stuti Sharma [12] – South Fraser BC
Charma 2.0 – An Orbital Settlement

Vedaant Srivastava [14] – Ottawa ON
An Effective Artificial Muscle

Elisa Ward [13] – Windsor ON
Pollution Evolution Solution

Excellence Award - Senior

Bronze Medal

Sponsor: Youth Science Canada
Medal and certificate

Laney Beaulieu [17] – South Slave NT
Risk Factors of, and Recommendations for, Alcoholism in Fort Resolution, NT

John Berger [16] – Southeast Alberta AB
A Graphic User Interface for the Retrieval of Genomic Information

Ahmad Almawi [16], Dhyey Bhavsar [16] – Peel ON
VOLTurus: Power Generation and Water Desalination

Ella Chan [16] – Vancouver Island BC
Oral Infections: Does lactoferrin inhibit the bactericidal action of eugenol?

Victoria Chouinard [17] – Québec et Chaudière-Appalaches QC
L'ADNe... Euh! C'est quoi?

Kurtis Collins [16] – Eastern Newfoundland NL
Flaxseed-Derived Lignan SDG Protects Human Colon Cells from ROS mtDNA

Nisarg Dave [17] – Eastern Newfoundland NL
A Blue Biorefinery Approach: Marine Nutraceuticals from Salmon Waste Resources

Frances Emery [16] – Peterborough ON
Do Kingdoms Speak the Same Language; Are Phytohormones Mycohormones?

Jaden Ford [17] – Northern British Columbia BC
CO2NSEQUENCES

Siddhant Gautam [16] – Edmonton AB
Cool Peptides – A novel approach to cryopreservation of organs

Azin Dolatabadi [15], Jaslin Ghotra [17] – Southeast Alberta AB
A Seed-E Alternative to Water Treatment

Megan Gran [17] – Sudbury ON
Robotic Innovations Can Change Lives by Completing Common Tasks

Mehul Gupta [17] – Calgary Youth AB
Liquid Biopsy: A Novel Diagnostic Technique for Atypical Teratoid/Rhabdoid Tumor

Jacob Harvey [17] – Winnipeg Schools MB
*Medium Optimization for Cheap, Novel Bioplastic Production From *P. Putida**

Kristi Hayko [17] – Regina SK
Landfill Optimization: Converting Solid Waste to Energy

Chloe Carriere [17], Caitlin Howard [18] – North Bay ON
*The effect of *Urtica dioica* on the Alzheimer profile in *Drosophila melanogaster**

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



-
- YaWen Huang** [17] – Winnipeg Schools MB
Secreted APP α as a Therapeutic for Diabetic Encephalopathy
-
- Melanie Jonnalagadda** [17] – Thames Valley ON
Glucose-Induced Expression of Endothelin 1 & its Relation to Diabetic Retinopathy
-
- Sandrine Leblanc-Savignac** [17] – Montréal RM QC
Pesticides MenaSangs
-
- Lia Loebenberg** [16] – Montreal QC
Division: Impossible (Discovering Cancer's Dependencies for Targeted Treatments)
-
- Correne Minty** [16] – Central Alberta AB
Hydrogen Sulphide Sensing
-
- Emallie Morin-Barich** [16] – Fransaskoise SK
L'effet des détergents verts sur les écosystèmes aquatiques
-
- Akshay Patel** [17] – Niagara ON
The Role of Proctolin in Turning Behaviour of Drosophila Melanogaster Larvae
-
- Emeric Proulx** [17] – Rive-Nord QC
Hydropulsoréacteur
-
- Angie Redford** [15], **Anna Schwartz** [17] – Sunset Country ON
A "Minor" Experiment with "Major" Results
-
- Nicole Schmidt** [17] – Calgary Youth AB
Optimizing Fluid Flow Systems
-
- Noha Shehata** [16] – Eastern Newfoundland NL
A Novel Way to Recycle Shrimp Shells into Biodegradable Plastic
-
- Thanusha Balasubramaniyam** [16], **Taushia Siddique** [17] – Rive-Nord QC
L'or vert du sang blanc?
-
- Raphaël Cloutier** [18], **Liam Simard** [17] – Québec et Chaudière-Appalaches QC
M.A.R.K.
-
- Emmeraude Tanguay** [16] – Côte-Nord QC
Enfants: esclaves virtuels?
-
- Joy Shah** [17], **Parth Vachharajani** [17] – Lambton County ON
Riding the Fluoride
-
- Katherine van Kampen** [18] – Central Okanagan BC
Slowing Neuronal Degeneration
-
- Jessica Vaszily** [18] – South Shore NS
Epigenetics Has Exercise Knocking on its Door
-
- Kendra Prasad** [15], **Rizky Wahyudi** [17] – Lambton County ON
Flexi Golf: Innovative Golfer's Stabilizing Stand
-
- Charles Wang** [16], **Spencer Zzulka** [16] – South Fraser BC
Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum
-
- Bob Wei** [17] – Niagara ON
Solitary Wave Propagation in a Novel Granular Chain Setup
-
- Jordan Winter** [17] – Algoma Rotary ON
Destructor destruction: Could this Bee the end?

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Elesha Wood [17] – Tri-County NS

Stimulation of the Vagus Nerve Through Targeted Temperature Therapy

Himanshu Sharma [17], **Derek Yin** [18] – Manitoba Schools Science Symposium MB

ReefHub: A Novel Autonomous Coral Reef Conservation System

Selina Zhou [16] – Greater Vancouver BC

Changes in Volatile Organic Compounds Emission Under Stressed Conditions

Excellence Award - Intermediate

Bronze Medal

Sponsor: Youth Science Canada

Medal and certificate

Om Agarwal [14] – Halifax NS

Automotive Collision Detection Network

Kevin Bai [15] – Northwestern Ontario ON

A Novel Eye Tracking System Robust to Head Movements

Clark Bains [15] – Rideau-St. Lawrence ON

The Breaking Point: Increasing Circuit Efficiency and Reducing Heat

Deandre Baker [16], **Tanish Wadhwa** [15] – Peel ON

Smart Helmet which measures acceleration to detect minor & major brain damage

Jacob Bowman [15] – Peterborough ON

Fish or chips: brook trout in Harper Creek

William Campbell [14] – Kivalliq NU

Sea Fuel

Anastasia Castro [14] – Vancouver Island BC

Fluctuation of Oceanic Microplastics at Depth and Effects on Marine Ecosystems

Melody Cheng [16] – Vancouver Island BC

A New Phase of Water: Is this measurable with surface tension?

Noah Davidson [14] – St. James-Assiniboia MB

Material Swings

Kavisha Dayarathna [16] – Thames Valley ON

Spices are Key to be Kidney Stone Free

Skye Dusolt [15] – Northwestern Ontario ON

Steam with Nanoparticles

Nicolas Fedrigo [16] – Vancouver Island BC

Stroke Rehabilitation Exoskeleton

Soheil Ghaffari [15] – South Shore NS

Bitten by Lyme Disease

Mihir Gothal [14] – Edmonton AB

Bioavailability of Chia Seeds

Lénárd Grossmann [13] – Edmonton AB

Swarm Robotics: How Robots Cooperate

Yassin Guitouni [15] – Vancouver Island BC

The KNEEd for Power: Harvesting Biomechanical Energy

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



-
- Eungyung Kim** [14] – Central Interior British Columbia BC
Reclamation: A systems change to waste management in the operating room
-
- Atanas Kolev** [15] – Regina SK
Orbital Eccentricity and Solar Energy
-
- Marie-Pier Lacroix** [15], **Sophie Lacroix** [15] – Montréal RM QC
Attention, bébé à bord!
-
- Caleb Lammers** [15] – Northwestern Ontario ON
Zipf's Law Tested Across Age Groups
-
- Samuel Lefrançois** [15] – Districts francophones du Nouveau-Brunswick NB
La motivation du harle huppé à choisir où mettre tous ses œufs
-
- Claire Larson** [15], **Leah Macfarlane** [15] – Southeast Saskatchewan SK
Alzheimer's and Visual Perception
-
- Monica Mahut** [15] – Bay Area ON
GEARS: Gravitational Electricity Accumulating Renewable Storage
-
- Connor Maxwell** [14] – Bluewater ON
Hydrological Analysis of Streamflow and Potential Effects of Climate Change
-
- Ruth Meyer** [14] – Waterloo-Wellington ON
Concede to Me! The Effect of Exit – Signalling on Yield Rates in Roundabouts
-
- Meera Moorthy** [15] – Quinte ON
Shrubs on Drugs
-
- Catherine Plante** [16] – Saguenay-Lac Saint-Jean QC
Les bactéries ont la solution!
-
- John Poole** [15] – Canadian Rockies AB
The Effects of Oil on Mycelial Production of Lignin Peroxidase
-
- Alexandra Pimentel** [15], **Noémie Poulin** [15] – Outaouais QC
Une bouteille d'eau bio
-
- Waleed Sawan** [15] – Thames Valley ON
Drip – A Precision Agriculture System for the Developing World
-
- Rohan Sethi** [14] – Manitoba Schools Science Symposium MB
Effects of Faba Bean Ingredients on Glycemia and Satiety in Novel Food Products
-
- Devarsh Shah** [14] – Lambton County ON
A Novel Approach to Non-Invasive Glucose Measurement
-
- Rory Smith** [16] – East Kootenay BC
Nuclei Oxidation Therapy: A New Take on Localized Antineoplastics
-
- Dylex Suan** [14] – Bay Area ON
Ameliorating Salinity Tolerance in Broccoli Plants by Acclimation
-
- Rahman Tawhid** [16] – Cariboo Mainline BC
A Novel Method in Predicting Chronic Disease
-
- Kyra Taylor** [16] – 4-H Canada ON
Hydroponic Forage: A Feasible Equine Feed Alternative
-
- Joseph Trottier** [16] – Sudbury ON
Connaitre son poids ne suffit pas

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Juliette Péloquin [16], Marie-Philippe Villiard [16] – Montérégie QC
Asclépiade, un cas isolé

Ethan White [15] – Waterloo-Wellington ON
CPU Load Covert Channels Exploiting Interrupt Latency

Ahnais Young [14] – Prince Edward Island PE
Cerebral Hemispheric Lateralization in Relation to Handedness

Excellence Award - Junior

Bronze Medal

Sponsor: Youth Science Canada
Medal and certificate

Ethan Aarts [14] – Avon Maitland-Huron Perth ON
If You Shake It, You Break It

Janani Anandan [13] – Peel ON
Green Power of Cactus

Shaaf Babar [12] – Wood Buffalo AB
Street Smart

Andrew Benn [12] – Thames Valley ON
Magnetic Fields and Fluid Flow

Emilie Bordeleau McCallum [13] – Ottawa ON
Cancer Free

Hannah Bryant [13] – Chignecto East NS
Plant Grafting

Lauren Bunt [13] – Quinte ON
Feed Bucket Preference and its Impact on Equine Medication Rejection

Laura Cunningham [13] – Greater Vancouver BC
Salt in Fast Food: No Great Shakes for Your Health

Sebastien Galand [13] – Montreal QC
Bridging The Gap

Matthias Gasser [14] – Canadian Rockies AB
Not Just a Flutter in the Wind

Eve Gilbert [13] – Simcoe County ON
Independence Plus: A Mobility Aid

Neha Gupta [12] – Bay Area ON
Development of a Portable System for Detection of Bacteria Using DNA Biomarkers

Jonah Haliburton [13] – Greater Vancouver BC
The Anchovy: Remotely Operated Submersible

Hillary Huynh [14] – Yellowknife NT
Quelle est la durée de la mémoire des visages

Marina Ilyas [13] – Waterloo-Wellington ON
Phixing Physio

Liam Ingram [13] – West Kootenay & Boundary BC
Can We Fish Better?

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Ayanna Jeyakanthan [12] – Durham ON <i>The Effects of Microwave Radiation</i>
Etienne Joulin [14] – Bluewater ON <i>Musical Personality</i>
Tharindu Kottegoda [14] – St. James-Assiniboia MB <i>Energy Harnessing Backpack</i>
Darshana Lanke [14] – Saskatoon SK <i>Comparative Study Characterizing Wheat Allergenicity in Ancient and Modern Wheat</i>
Neleah Lavoie [13] – 4-H Canada ON <i>Cost-Effective Extraction of Chitin from Lobster Shells</i>
Andrew Li [13], Jeremy Xie [14] – Toronto ON <i>Self-Sustaining Aquaponics System</i>
Kevin Liu [13] – Toronto ON <i>Flowing Through Distinct Watersheds</i>
Edward Lombo [14] – Bay Area ON <i>Electrochemical Synthesis of Ammonia</i>
Khadija Manji [13], Zoha Sojoudi [14] – York ON <i>Sugar or Spice?</i>
Rachel Manzon [13] – Regina SK <i>Thermal Tolerance in Lake Whitefish Embryos</i>
Connor McCourt [12] – Bay Area ON <i>Grow With the Flow</i>
Catriona McIntosh [12] – Calgary Youth AB <i>How Attachment Affects Informed Risk Taking in Adolescents</i>
Anmol Nagra [13] – Windsor ON <i>To Bandage or Not to Bandage?</i>
Ayana Nanthakumar [13] – Peel ON <i>Keep it Cold and Keep it Clean</i>
Harry Parmar [13] – York ON <i>Viola-Bac; Power of Synthetic Biology in Real World</i>
Eshan Rasul [12] – Peel ON <i>Vitamins: Friend or Foe of Your Gut</i>
Monis Sayyid [12], Jack Sloan [13] – Rideau-St. Lawrence ON <i>Learn The Burn</i>
Mathilde St-Jean Perron [13] – Estrie QC <i>Cric Crac Croc, on se déhanche</i>
Olivia Calbeck [14], Julie Taylor [14] – Bay Area ON <i>One Step at a Time</i>
Kayli Taylor [13] – 4-H Canada ON <i>Water Erosion: Will Wood Chips Help Prevent Surface Water Erosion?</i>
Norah Trinh [13] – Lethbridge AB <i>The Piezoelectric Shoe: Energy from Motion</i>

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Reid Tull [13] – Algoma Rotary ON
Perpetual Motion

Olivia Wallace [13] – Ottawa ON
Catch the Flow

Nethra Wickramasinghe [13] – Sudbury ON
Hot Air Insu-Layer

Gold Medal - International

Sponsor: Youth Science Canada
Medal and certificate

Ali Akgül [17], **Eken Ozlu** [16] – Turkey
Thought Controlled Smart House and Wheelchair for People with Paralysis

Roberto Rene Velasquez Garcia [18] – Mexico
Factors that influence the student's decision by the program B@UNAM

Mkg Eroğlu [17], **Bayram Ali Yıldırım** [17] – Turkey
I'm disabled so I can't, let the gloves write for the disabled!

Challenge Award - Resources

Senior

Sponsor: Youth Science Canada
Certificate

Dhvani Patel [17] – Wood Buffalo AB
SMART Agricultural Technology

Challenge Award - Resources

Intermediate

Sponsor: Youth Science Canada
Certificate

Austin Wu [15], **Kamron Zaidi** [15] – York ON
A Comparative Analysis of Hydroponics, Aeroponics, and Fogponics on Plant Growth

Challenge Award - Resources

Junior

Sponsor: Youth Science Canada
Certificate

Neleah Lavoie [13] – 4-H Canada ON
Cost-Effective Extraction of Chitin from Lobster Shells

Challenge Award - Innovation

Senior

Sponsor: Youth Science Canada
Certificate

Nora Boone [18] – Eastern Newfoundland NL
It's only Brain Surgery! 3D Printing: Developing a Craniotomy Simulation Tool

Challenge Award - Innovation

Intermediate

Sponsor: Youth Science Canada
Certificate

Amal Aziz [15] – Thames Valley ON
Developing a Trojan Horse to Treat Alzheimer's Disease

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Challenge Award - Innovation

Junior

Sponsor: Youth Science Canada
Certificate

Danish Mahmood [13] – Thames Valley ON
W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

Challenge Award - Information

Senior

Sponsor: Youth Science Canada
Certificate

Dennis Krasnov [16] – Thames Valley ON
Artificial Neural Network for Autonomous Driving

Challenge Award - Information

Intermediate

Sponsor: Youth Science Canada
Certificate

Om Agarwal [14] – Halifax NS
Automotive Collision Detection Network

Challenge Award - Information

Junior

Sponsor: Youth Science Canada
Certificate

Jérémie Gaudreault [13] – Québec et Chaudière-Appalaches QC
Gaudi 2.0 Logiciel pour la génération en 3D de colonnes d'apparence organique

Challenge Award - Health

Senior

Sponsor: AstraZeneca Canada
Certificate

Colette Benko [16] – Calgary Youth AB
Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Challenge Award - Health

Intermediate

Sponsor: AstraZeneca Canada
Certificate

Crystal K Radinski [16] – Calgary Youth AB
EEG Coherence as a Marker for Alzheimer's Dementia

Challenge Award - Health

Junior

Sponsor: AstraZeneca Canada
Certificate

Keiran Barr [14] – Frontenac, Lennox & Addington ON
Nicotinamide: Novel Skin Cancer Chemoprevention

Challenge Award - Environment

Senior

Sponsor: Youth Science Canada
Certificate

Phyllis Lesnikov [16] – Greater Vancouver BC
Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Challenge Award - Environment

Intermediate

Sponsor: Youth Science Canada
Certificate

Yimeng Li [14] – Greater Vancouver BC
Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?

Challenge Award - Environment

Junior

Sponsor: Youth Science Canada
Certificate

Evan Sharma [13] – Frontenac, Lennox & Addington ON
MMO Cow: How microbiome changes can lower methane emissions from livestock

Challenge Award - Energy

Senior

Sponsor: Youth Science Canada
Certificate

Alexandra Harnagea [16] – Montérégie QC
Triboélectricité : repliez-vous!

Challenge Award - Energy

Intermediate

Sponsor: Youth Science Canada
Certificate

Ollie Zhao [15] – Greater Vancouver BC
Amp Tree

Challenge Award - Energy

Junior

Sponsor: Youth Science Canada
Certificate

Aaliyah Mahboubi [13] – Pacific Northwest BC
Microbial-film Power Generation 2.0 – It's about to get cooler

Challenge Award - Discovery

Senior

Sponsor: Youth Science Canada
Certificate

Grant Mansiere [17] – Central Okanagan BC
Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control

Challenge Award - Discovery

Intermediate

Sponsor: Youth Science Canada
Certificate

John Poole [15] – Canadian Rockies AB
The Effects of Oil on Mycelial Production of Lignin Peroxidase

Challenge Award - Discovery

Junior

Sponsor: Youth Science Canada
Certificate

Dheiksha Jayasankar [12] – Niagara ON
NanoGrow: Nanoparticles as a Plant Growth Enhancer

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Youth Can Innovate Awards

Senior

Sponsor: The Gwyn Morgan and Patricia Trottier Foundation

Eight projects each receive a \$1,000 cash award and certificate. Four of these winners also receive an additional \$7,000 cash award.

Colette Benko [16] – Calgary Youth AB
Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Nora Boone [18] – Eastern Newfoundland NL
It's only Brain Surgery! 3D Printing: Developing a Craniotomy Simulation Tool

Rushi Gandhi [17], **Saharsh Hariharan** [17] – Peel ON
HapticNav: A Vibrotactile Navigation System for the Visually Impaired

Justin Lin [17] – Manitoba Schools Science Symposium MB
Peptide-Directed Knockdown of Misfolded SOD1 by Chaperone – Mediated

Dhrumil Shah [17] – Wood Buffalo AB
Enhancing Electrolysis: Discovering the Separation of the Faradic Currents

Charles Wang [16], **Spencer Zezulka** [16] – South Fraser BC
*Solar-Powered Production of Clean Fuel by the Fermentation of *C. acetobutylicum**

Tim Wu [16] – Calgary Youth AB
Exploring the Novel Use of Eggshells to Address Organic Solar Cell Instability

Bowen Xue [17] – Ottawa ON
Developing Aptamer-Based Targeted Imaging Probes for the Diagnosis of Stroke

Youth Can Innovate Awards

Senior

Sponsor: The Gwyn Morgan and Patricia Trottier Foundation

Eight projects each receive a \$1,000 cash award and certificate. Four of these winners also receive an additional \$7,000 cash award.

Rushi Gandhi [17], **Saharsh Hariharan** [17] – Peel ON
HapticNav: A Vibrotactile Navigation System for the Visually Impaired

Justin Lin [17] – Manitoba Schools Science Symposium MB
Peptide-Directed Knockdown of Misfolded SOD1 by Chaperone – Mediated

Charles Wang [16], **Spencer Zezulka** [16] – South Fraser BC
*Solar-Powered Production of Clean Fuel by the Fermentation of *C. acetobutylicum**

Tim Wu [16] – Calgary Youth AB
Exploring the Novel Use of Eggshells to Address Organic Solar Cell Instability

Youth Can Innovate Awards

Intermediate

Sponsor: The Gwyn Morgan and Patricia Trottier Foundation

Four projects each receive \$750 cash and a certificate

Amal Aziz [15] – Thames Valley ON
Developing a Trojan Horse to Treat Alzheimer's Disease

Yimeng Li [14] – Greater Vancouver BC
Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?

Crystal K Radinski [16] – Calgary Youth AB
EEG Coherence as a Marker for Alzheimer's Dementia

Award Recipients

Canada-Wide Science Fair 2017 Regina, Saskatchewan



Nattan Telmer [14] – Vancouver Island BC
Powering Animal Trackers With Thermal Electric Generators (TEGs)

Youth Can Innovate Awards

Junior

Sponsor: The Gwyn Morgan and Patricia Trottier Foundation
Four projects each receive \$500 cash and a certificate

Naomie Azzi [13] – Ottawa ON
Béquilles-o-jnou

Danish Mahmood [13] – Thames Valley ON
W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

Bhavya Mohan [14] – Ottawa ON
A Novel Lab on a Chip based PCR Sensor for Disease Diagnostics for Under \$1

Harry Parmar [13] – York ON
Viola-Bac; Power of Synthetic Biology in Real World

Weizmann Canada Award for Scientific Achievement

Senior

Sponsor: Weizmann Canada
The award provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare. The dates of the Weizmann summer science program are July 4 -30, 2017. Total value \$9,000.

Emily Gubski [17] – Calgary Youth AB
Inducing Delta 32 mutation in CCR5 T-cells to develop HIV immunity in patients

University of Ottawa Undergraduate Research Scholarship Award

Senior

Sponsor: University of Ottawa, Faculty of Science
The recipient will work with scientists and take part in important scientific discoveries during two consecutive summers. In the summer preceding the first year of studies in an undergraduate program at the Faculty of Science, University of Ottawa, the recipient will earn \$3,750 as a research assistant to one of the world class professors. By succeeding in the first year of studies, the research experience will be extended to a second summer, during which he/she will earn \$6,250.

Colette Benko [16] – Calgary Youth AB
Novel Pediatric Cancer Therapy: Targeting Epigenetics to Induce Differentiation

Statistical Society of Canada and Biostatistics Section Award

Intermediate

Sponsor: Statistical Society of Canada and Biostatistics Section
\$750 cash and certificate

Crystal K Radinski [16] – Calgary Youth AB
EEG Coherence as a Marker for Alzheimer's Dementia

Statistical Society of Canada Award

Senior

Sponsor: Statistical Society of Canada
\$1,000 cash and certificate

Advait Maybhate [16] – Waterloo-Wellington ON
A New Approach to Motif Discovery

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



SHAD Scholarship Award

Senior

Sponsor: SHAD

\$1,000 SHAD program scholarship and certificate. SHAD empowers exceptional high school students to recognize their own capabilities and envision their extraordinary potential as tomorrow's leaders and change makers. Each year, SHAD provides the opportunity for 750+ students from across Canada and internationally to attend a month-long summer program, in residence at a Canadian host university, focused on STEAM (science, technology, engineering, arts, and mathematics).

Phyllis Lesnikov [16] – Greater Vancouver BC

Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana

SHAD Scholarship Award

Intermediate

Sponsor: SHAD

\$1,000 SHAD program scholarship and certificate. SHAD empowers exceptional high school students to recognize their own capabilities and envision their extraordinary potential as tomorrow's leaders and change makers. Each year, SHAD provides the opportunity for 750+ students from across Canada and internationally to attend a month-long summer program, in residence at a Canadian host university, focused on STEAM (science, technology, engineering, arts, and mathematics).

Dayna Harper [16] – Island Lakes MB

Plants and Magnets

S.M. Blair Family Foundation Award

Senior

Sponsor: S.M. Blair Family Foundation

\$1,000 cash and certificate

Nicole Schmidt [17] – Calgary Youth AB

Optimizing Fluid Flow Systems

S.M. Blair Family Foundation Award

Intermediate

Sponsor: S.M. Blair Family Foundation

\$750 cash and certificate

Nattan Telmer [14] – Vancouver Island BC

Powering Animal Trackers With Thermal Electric Generators (TEGs)

S.M. Blair Family Foundation Award

Junior

Sponsor: S.M. Blair Family Foundation

\$500 cash and certificate

Danish Mahmood [13] – Thames Valley ON

W.I.N.I.T.S. (Wireless Interconnected Non-Invasive Triage System)

Renewable Energy Award

Senior

Sponsor: Ontario Power Generation

\$1,000 cash and certificate

Caroline Mahut [18] – Bay Area ON

Catch the Wave: Harnessing Electricity from Aqueous Sinusoidal Oscillations

Renewable Energy Award

Intermediate

Sponsor: Ontario Power Generation

\$750 cash and certificate

Monica Mahut [15] – Bay Area ON

GEARS: Gravitational Electricity Accumulating Renewable Storage

Award Recipients

Canada-Wide Science Fair 2017 Regina, Saskatchewan



Renewable Energy Award

Junior

Sponsor: Ontario Power Generation
\$500 cash and certificate

Aaliyah Mahboubi [13] – Pacific Northwest BC
Microbial-film Power Generation 2.0 – It's about to get cooler

Nutrients for Life Foundation Award

Intermediate

Sponsor: Nutrients for Life Foundation Canada
\$750 cash and certificate

Austin Wu [15], **Kamron Zaidi** [15] – York ON
A Comparative Analysis of Hydroponics, Aeroponics, and Fogponics on Plant Growth

International Summer School for Young Physicists Award

Senior

Sponsor: Perimeter Institute for Theoretical Physics

The award consists of a full scholarship to participate in the International Summer School for Young Physicists 2017 (ISSYP 2017) from July 16-29, an intensive two week enrichment program that will introduce the student to the fascinating picture of our universe as seen through the eyes of contemporary physicists: from the bizarre quantum world of atoms and subatomic particles to black holes, warped spacetime and the expanding universe. The student will also interact with professional physicists at Perimeter Institute in small group mentoring sessions, participate in field trips to leading experimental science laboratories, and forge new friendships with like minded young people from around the world. The scholarship includes room and board and travel expenses to and from the Institute. Total value \$3,500.

Dennis Krasnov [16] – Thames Valley ON
Artificial Neural Network for Autonomous Driving

4-H Canada Sustainable Agriculture Award

Junior

Sponsor: 4-H Canada
\$500 cash and certificate

Evan Sharma [13] – Frontenac, Lennox & Addington ON
MMO Cow: How microbiome changes can lower methane emissions from livestock

4-H Canada Food Security Award

Junior

Sponsor: 4-H Canada
\$500 cash and certificate

Sabrina Mogus [12] – Bay Area ON
Don't Feast on Your Fleece

First Nations University of Canada Award

Junior

Sponsor: First Nations University of Canada
\$500 cash and certificate

Skylin Desjarlais [13], **Deshawn McKay** [14] – Manitoba First Nations MB
Wiggle it, Just a Little Bit

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Excellence in Astronomy Award

Intermediate

Sponsor: Royal Astronomical Society of Canada
Telescope and certificate plus a one year membership to RASC

Atanas Kolev [15] – Regina SK
Orbital Eccentricity and Solar Energy

Excellence in Astronomy Award

Junior

Sponsor: Royal Astronomical Society of Canada
Telescope and certificate plus a one year membership to RASC

Rose Cloutier [14], **Virginie Paquet** [14] – Québec et Chaudière-Appalaches QC
Les exoplanètes

Engineering Innovation Award

Intermediate

Sponsor: The Engineering Institute of Canada
\$750 cash and certificate

Louis-Philippe Belley [15], **Jonathan Lévesque** [16] – Québec et Chaudière-Appalaches QC
BlackFly: l'analyseur de gaz

Carlson Wagonlit Award

Junior

Sponsor: Carlson Wagonlit Travel
\$500 cash and certificate

Nicole Sonnichsen [12] – West Kootenay & Boundary BC
The Tesla Smarkade – Wireless Electric Car Charging Parkade

CAP Physics Prize

Senior

Sponsor: Canadian Association of Physicists
\$1,000 cash and certificate.

Marin Schultz [16] – Lethbridge AB
Novel Prosthetic AutoGrasp Control System and Human-Prosthetic Interface

CAP Physics Prize

Intermediate

Sponsor: Canadian Association of Physicists
\$750 cash and certificate

Melody Cheng [16] – Vancouver Island BC
A New Phase of Water: Is this measurable with surface tension?

CAP Physics Prize

Junior

Sponsor: Canadian Association of Physicists
\$500 cash and certificate

Daniel Kornylo [13] – Northern Vancouver Island BC
High School Voltage

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



Canadian Stockholm Junior Water Prize

Senior

Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Xylem
All-expenses paid trip to Stockholm, Sweden, August 27-September 1, 2017, for up to two student(s) of the winning project to represent Canada at the International Stockholm Junior Water Prize Competition (www.sjwp.ca).

Victoria Chouinard [17] – Québec et Chaudière-Appalaches QC
L'ADNe... Euh! C'est quoi?

Azin Dolatabadi [15], **Jaslin Ghotra** [17] – Southeast Alberta AB
A Seed-E Alternative to Water Treatment

Nicole Schmidt [17] – Calgary Youth AB
Optimizing Fluid Flow Systems

Canadian Society for Medical Laboratory Science Award

Intermediate

Sponsor: Canadian Society for Medical Laboratory Science
\$750 cash and certificate

Devarsh Shah [14] – Lambton County ON
A Novel Approach to Non-Invasive Glucose Measurement

Canadian Society for Clinical Chemists Award

Senior

Sponsor: Canadian Society for Clinical Chemists
\$1,000 cash and certificate

Justin Lin [17] – Manitoba Schools Science Symposium MB
Peptide-Directed Knockdown of Misfolded SOD1 by Chaperone – Mediated

Canadian Orchid Congress Award

Senior

Sponsor: Canadian Orchid Congress
\$1,000 cash and certificate

Jordan Winter [17] – Algoma Rotary ON
Destructor destruction: Could this Bee the end?

Canadian Association for the Club of Rome Award

Senior

Sponsor: Canadian Association for the Club of Rome
\$1,000 cash and certificate

Emeric Proulx [17] – Rive-Nord QC
Hydropulsoréacteur

Canadian Artificial Intelligence Association Award

Junior

Sponsor: Canadian Artificial Intelligence Association
\$500 cash and certificate

Emilie Bordeleau McCallum [13] – Ottawa ON
Cancer Free

Canadian Acoustical Association Award

Senior

Sponsor: Canadian Acoustical Association
\$1,000 cash and certificate plus subscription to the Canadian Acoustical Association's quarterly journal

Ayemen Faridi [17] – Durham ON
Mastermind: The Effect of White Noise on Cognitive Concentration in Females

Award Recipients

Canada-Wide Science Fair 2017

Regina, Saskatchewan



The Actuarial Foundation of Canada Award

Senior

Sponsor: The Actuarial Foundation of Canada
\$1,000 cash and certificate

Tasnia Nabil [16] – Windsor ON

A Novel Computational Tool to Advance Ferromagnetic NanoTherapy to Cure Cancer

The Actuarial Foundation of Canada Award

Intermediate

Sponsor: The Actuarial Foundation of Canada
\$750 cash and certificate

Om Agarwal [14] – Halifax NS

Automotive Collision Detection Network

The Actuarial Foundation of Canada Award

Junior

Sponsor: The Actuarial Foundation of Canada
\$500 cash and certificate

Jérémie Gaudreault [13] – Québec et Chaudière-Appalaches QC

Gaudí 2.0 Logiciel pour la génération en 3D de colonnes d'apparence organique