

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Best Project Award

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

Kayley Ting [15] – York ON
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Platinum Award - Best Senior Project

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

Katherine Teeter [17] – Bluewater ON
Synthetic Limpet Teeth for Improved Joint Performance

Platinum Award - Best Intermediate Project

Sponsor: Youth Science Canada
Award

Kayley Ting [15] – York ON
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Platinum Award - Best Junior Project

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

Sophie Hoye Pacholek [12] – Calgary Youth AB
The Genius Genus: Aspen Adaptations

McGill University Entrance Scholarship

An Entrance Scholarship of \$2,500 is offered to each recipient of a platinum award.

Sponsor:

An Entrance Scholarship of \$2,500 is offered to each recipient of a platinum award.

Sophie Hoye Pacholek [12] – Calgary Youth AB
The Genius Genus: Aspen Adaptations

Katherine Teeter [17] – Bluewater ON
Synthetic Limpet Teeth for Improved Joint Performance

Kayley Ting [15] – York ON
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Western University Scholarship

Gold Medallist - \$4000 Entrance Scholarship

Sponsor: Western University

An Entrance Scholarship of \$4000 is offered to each winner of a Gold Medal; \$2000 to each winner of a Silver Medal; and \$1000 to each winner of a Bronze Medal.

Sascha Bodak [17] – Thames Valley ON
Generating Musical Accompaniment Using Machine Learning

Brent Charron [13] – Windsor ON
The Graphene Enhanced S.W.I.F.T. Unit

Sophia Cottrill [13] – Bluewater ON
Evolution or Extinction? Time Will Tell for the King of the Arctic

William Gadoury [15] – Mauricie, Centre-du-Québec QC
Découverte depuis l'espace

Nicole Green [16] – Central Alberta AB
Gender Imbalance: The Influence of the Stereotype Threat on Women in STEM

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-
- Ruicen (David) He** [17] – Edmonton AB
Aging in Human Cells is Linked to BubR1 Expression
-
- Shayan Hemmati** [16] – Calgary Youth AB
Role of ING1 in Squamous Cell Carcinoma
-
- Sophie Hoyer Pacholek** [12] – Calgary Youth AB
The Genius Genus: Aspen Adaptations
-
- Myers Illes** [13] – Central Interior British Columbia BC
Grey Water, Green Plants
-
- Daniel Jeyaraj** [13] – Ottawa ON
Delay in Fruit Ripening: An Approach to Reduce Ethylene Production in Bananas
-
- Tahmid Khan** [15] – Calgary Youth AB
The Development of Adaptive Wheels
-
- Meaghan MacKenzie** [16] – South Fraser BC
Myriophyllum spicatum: A Threat To Habitat Biodiversity—An Invasive Species PI
-
- Aaliyah Mahboubi** [13] – Pacific Northwest BC
Microbial-Film Power Generation
-
- Caroline Mahut** [17] – Bay Area ON
Slowing Down To Power Your Town
-
- Adam Martinez** [14] – Waterloo-Wellington ON
The Effects of Nanosilver on the Ionic Silver Resistant Plasmid (pMG101)
-
- Marina McInnis** [16] – Ottawa ON
Floating an Idea - Preventing Mysterious Drownings in Experienced Swimmers
-
- Zoe Chisholm** [14], **Camila Moran-Hidalgo** [13] – Bay Area ON
Antimicrobial Wound Dressing from Synthesized Silver Nanoparticles on Cellulose
-
- Isabella O'Brien** [14] – Bay Area ON
Aquatic Osteoporosis: Remediating the emerging problem of lake calcium decline
-
- Zeel Patel** [16] – Calgary Youth AB
CADSense: A Novel Biosensor Optimized For The Early Diagnosis Of Atherosclerosis
-
- Lucas Penny** [17] – Niagara ON
Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer
-
- Abhinav Boyed** [16], **Karthik Prasad** [15] – Peel ON
The Thermovoltaic Cell
-
- Aoife Pucchio** [17] – Thames Valley ON
Styrofoam - A Problem We Need to (dis)-Solve
-
- Zwetlana Rajesh** [15] – Renfrew County ON
Testing the Acceptance of Phantom Limb in Non-Amputees
-
- Amit Scheer** [17] – Ottawa ON
ImmunoBEAM: A Novel Biomaterial Conjugate as a Therapeutic Vaccination Platform
-
- Devanshi Shukla** [18] – Waterloo-Wellington ON
A Biosensor for the Detection of Microbial Contamination
-
- Katherine Teeter** [17] – Bluewater ON
Synthetic Limpet Teeth for Improved Joint Performance

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Nattan Telmer [13] – Vancouver Island BC
Thermo-electric generators to charge electronic devices in the wilderness

Kayley Ting [15] – York ON
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Micah Windsor-Freeman [14] – Northwestern Ontario ON
Learning from Flint: Is NaOH the Solution to Pb-Contaminated Drinking Water?

Kelvin Zhang [16] – Greater Vancouver BC
Using Genetic Algorithms to Create Safer Self-Driving Cars

Western University Scholarship

Silver Medallist - \$2000 Entrance Scholarship

Sponsor: Western University

An Entrance Scholarship of \$4000 is offered to each winner of a Gold Medal; \$2000 to each winner of a Silver Medal; and \$1000 to each winner of a Bronze Medal.

Victoria Allen [15], **Sarah Veilleux** [16] – Mauricie, Centre-du-Québec QC
Vous en saliverez!

Elias Andersen [16] – Simcoe County ON
You're Out! An Electronic Baseball Umpire

Shaan Baig [15], **Labib-Daiyan Syed** [16] – Montreal QC
The Key to Unlocking BCa

Joshua Balisch [13] – Ottawa ON
A Follower Robot

Teryl Bates [13] – Central Okanagan BC
Power of Phi

Catherine Beaudin [15] – Ottawa ON
Reversing Atherosclerosis: Development of a Biocompatible Solvent

Colette Benko [15] – Calgary Youth AB
Inhibition of EZH2 in Neuroblastoma Cells

Nate Bilsky [12] – Fundy NB
La maison pliante

Katie Brent [17] – Bay Area ON
At A Measured Step: An Orthopaedic Pressure-Based Rehabilitative Insole

Gerry Nour Chamaa [19] – Estrie QC
Une perspective nébuleuse

Evan Chan [14] – Winnipeg Schools MB
The Effects of Guanosine on Essential Neurotoxins in the Parkinson's Disease

Chloe Chen [16] – Greater Vancouver BC
Disproving and Rederiving Betz's Law Through Theoretical and Experimental Method

Luc Couture [15] – Sudbury ON
L'endroit idéal pour botter un ballon le plus loin possible

Rachel Cuell [14] – Pacific Northwest BC
Climate Change: Time to be Enlivened

Noah Davidson [13] – St. James-Assiniboia MB
The Sweet Spot

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-
- Paul Drakos** [14] – Bay Area ON
A Prototype "Water Coil" for Generating Electricity
-
- Marianne Drolet-Sénéchal** [17] – Estrie QC
La loterie quantique
-
- Maria Duynisveld** [15] – Chignecto East NS
Something in the Way They Mooove
-
- Frances Emery** [15] – Peterborough ON
What's the Best Anti-Butt? Algae, Coconut or Banana - Designing Eco-Fliters
-
- Ameer Farrukh** [17] – Eastern Newfoundland NL
Implementing Biomarkers in Cardiomyocyte Cells for the use in Cardiotoxicity Scr
-
- John Fish** [16] – Waterloo-Wellington ON
A Novel Method in Tree Biomass Calculation
-
- Fionn Forbes** [13] – St. James-Assiniboia MB
Fish Fuel
-
- Sophie Fraser** [15] – Annapolis Valley NS
Common Sensors: Impact Sensors for Helmets
-
- Léa Gariépy** [16] – Québec et Chaudière-Appalaches QC
Phénol-Rince
-
- Patrick Geertz** [12] – Central Okanagan BC
The Effect of Dissolved Oxygen and pH on Wetland Aquatic Invertebrate Diversity
-
- Audrey Golsteyn** [14] – Lethbridge AB
Les épices au secours des infections alimentaires
-
- Natasha Grimard** [18] – Vancouver Island BC
Entomonoodles: An Exploration Of Entomophagy's Applications To Refugee Nutriti
-
- Mackenzie Guy** [13] – Wood Buffalo AB
Chillin' with Hot Flashes
-
- Nicholas Hall** [13], **Matthew Malley** [13] – Timmins ON
Je meurs de chaleur
-
- William Hamilton** [14] – Northern British Columbia BC
Personal Escape Pods : A New Emergency Breathing Apparatus
-
- Zoe Harris** [12] – Ottawa ON
Red Light Green Light Fuzzy In-Between Light
-
- Emerson Hsieh** [16] – South Fraser BC
A Computer Game Aimed at Improving Eye-hand Coordination for the Elderly
-
- Thomas Imbeault-Nepton** [15] – Saguenay-Lac Saint-Jean QC
Éclaire ton attention!
-
- Sunand Kannappan** [17] – Calgary Youth AB
CDK5RAP2 Novel Approach to NSCLC Diagnosis and Therapeutics
-
- Imogen Lawford-Wickham** [12] – Frontenac, Lennox & Addington ON
T1D Mouthguard
-
- Léo Lechaume-Robert** [15] – Québec et Chaudière-Appalaches QC
Quand la TBE sort au resto!

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-
- Phyllis Lesnikov** [15] – Greater Vancouver BC
The Remediation of Britannia Mine through Phytoremediation and Chemical Washing
-
- Olivia Li** [16] – Greater Vancouver BC
Creating Electrotrophs to Find Changes that Impact Extracellular Electron Uptake
-
- Ahmed Lone** [16] – Calgary Youth AB
Novel Camera-Based WSN in Fire Detection
-
- Connor Maxwell** [13] – Bluewater ON
Farmland To Filtration: Improving Water Quality
-
- Maren McIntosh** [13] – Calgary Youth AB
How Music Affects Horses
-
- Jack Edward Mogus** [15] – Bay Area ON
GRAPHENE REINFORCED GUAYULE RUBBER Conductive Hypoallergenic
-
- Caitlin Mungall** [13] – Greater Vancouver BC
Maple Syrup can FIX that
-
- Marie-Michèle Myre** [17] – Montérégie QC
La guerre des nerfs
-
- Daniel O'Reilly** [16] – Central Interior British Columbia BC
Leeches Unleashed
-
- Arjun Pandey** [16] – Waterloo-Wellington ON
Cardiometabolic Effects of Dietary Probiotics and Gut Microbiota Supplementation
-
- Janice Pang** [18] – Greater Vancouver BC
Macrophage Phenotype and Function: Effects of Islet Hormone Signaling
-
- Matthew Potter** [13] – Sunset Country ON
What's Hot What's Not?
-
- Harishitaa Prithiviraj** [17] – Chignecto West NS
Aromatherapy Delays Progression of Neurodegenerative Diseases
-
- Owen Robison** [18] – Waterloo-Wellington ON
Detection of DNA Integration in Tardigrades after Anhydrobiosis
-
- Rohit Sangaraju** [18] – Peel ON
Piezoelectric Vibration-Sensing Shoe
-
- Joseph Saturnino** [13] – Bay Area ON
Wearable Sonar Technology
-
- Marin Schultz** [15] – Lethbridge AB
Smart Prosthetic-Smart Object: A New Approach to Interactive Control and Design
-
- Juvea Mastromatteo** [12], **Sarah Simionescu** [13] – Niagara ON
The Audio Maze
-
- Kyra Taylor** [15] – Northern British Columbia BC
Equine Hydroponic Forage: Can it really benefit Equine Nutritional Needs?
-
- Anmol Tukrel** [16] – York ON
iDentifi: Using Computer Vision to Help Visually Impaired Individuals
-
- Margaret Williams** [16] – Bay Area ON
The Role of Fabric in the Prevention of Nosocomial Illness

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Michael Wolfe [13] – Bay Area ON

Wi-Tricity on Wheels: Solar/Hydro Hybrid Wireless Charging of Electric Vehicles

Himanshu Sharma [16], **Derek Yin** [17] – Manitoba Schools Science Symposium MB

E-Walker: Formulating a Faster and Safer Stroke Recovery with Digital Sensors

Emily Zbaraschuk [13] – Prince Albert & Northeast Saskatchewan SK

Music, Rocks and all that Jazz - How Music Affects Learning

Western University Scholarship

Bronze Medallist - \$1000 Entrance Scholarship

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Muhammad Yaseen Abbas [13] – York ON

Put Breaks On Neoplasia

Hongjoo An [14] – Peel ON

Light the Green

Catherine Andary [13] – Windsor ON

La désalinisation illuminée!

Katelyn Anthony [14] – Annapolis Valley NS

Tiny Titans: Silver Nanoparticles

Ishmum Aatur [16] – Greater Vancouver BC

Tumor-Specific TCR-pMHC Database

Shruthi Bandi [15] – Prince Edward Island PE

What are the Beneficial Effects of Curcumin?

Rohan Batchu [13], **Anthony Louie** [14] – York ON

A Multifunctional Innovation For Efficient CO2 Reduction

Laney Beaulieu [16], **Isaac Simon** [15] – South Slave NT

On the Pathway to Healing: Risk Factors of Alcoholism in Fort Resolution, NT

Winnica Beltrano [18] – Manitoba Schools Science Symposium MB

Comparison of Tractography in Mouse Models of Human Diseases

Nitish Bhatt [17] – Eastern Newfoundland NL

CALM: A Computational Approach for Landslide Mitigation and Study

Masum Billah [16], **Calvin Veenkamp** [17] – Toronto ON

Walking Analysis: A Gait-Way to a Better Future

Ashleigh Larissa Brady [17], **Reagan Alexandra Lawton** [18] – North Bay ON

Company in the Shower

Eran Bursey [12] – Sudbury ON

The Effect of Worms on the Decomposition of Food Waste

Jack Bussin [14], **Ryan Li** [14] – Toronto ON

True Colours: Exploring the Science of the Stroop Effect

Allison Cai [16] – Waterloo-Wellington ON

Influence of Habitat on Cellobiase Activity in Mushrooms

Eva Cai [17] – Greater Vancouver BC

Evaluation of Anti-Inflammatory Effects of Flavonoids in Pomelo Peel Extracts

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Jay Chen [16] – Northwestern Ontario ON
Biomass Derived Carbon for Innovative Water Purification and Metal Extraction

Tori Chen [14] – Thames Valley ON
Sugar Science

Rémie Cherepak [13] – Yukon/Stikine YT
Would you Eat these Peas?

Ben d'Entremont [13] – Fundy NB
Driven to Distraction

Danielle D'Souza [14] – York ON
Project LEAP

Teresa Deng [19] – Carlton Trail SK
Algae to Biofuel

Mavi Deol [15] – Lambton County ON
Innovative Helmet Design to Reduce Brain Injury

Manuel Dionne [18] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Vote CDJ – une nouvelle façon de pratiquer la démocratie

Léa Drolet-Roy [14] – Québec et Chaudière-Appalaches QC
VSV-EBOV contre Ébola

Lydia Elbatarny [14] – Frontenac, Lennox & Addington ON
Caged In: A Novel Approach to Metal Extraction

Minoosh Fathi [15] – Simcoe County ON
Refuelling with Sugar

Nicolas Fedrigo [15] – Vancouver Island BC
Core Temperature Control Glove

Christopher Fortini [12] – Toronto ON
Attention Athletes...Do You Know What You're Drinking?

Zane Frantzen [15] – Simcoe County ON
Smart Water Monitoring System: Using Microcontroller Technology

Allie Fraser [18], **Brenna Martell** [18] – Strait NS
Pour Some Sugar on Me

Mihir Gothal [13] – Edmonton AB
Efficacy of Colloidal Silver

Ansh Goyal [17] – Ottawa ON
LRRK2 controls alpha-synuclein levels via microRNAs in Parkinson's disease

Madison Greek [13] – South Shore NS
Does She See He Sees

Brandon Greenall [17] – Pacific Northwest BC
The Management of Diabetes in Northwest British Columbia

Shahmeer Ahmad [17], **Surina Grover** [17] – Southeast Alberta AB
Chemotherapy in a Nutshell

Linda Guo [18] – Wood Buffalo AB
In-Sight

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Montréal, Québec



William Harvey [16] – Saguenay-Lac Saint-Jean QC
Muscle tes satellites

Mary Hoover [15] – Parkland SK
It's Bright, but You Can't See It

Ainsley Horton [13] – Central Okanagan BC
Wasted Water - Do We Really Need Watering Restrictions?

Lai-Ann Imbeault-Nepton [17] – Saguenay-Lac Saint-Jean QC
Valeurs 2.0

Hadile Imillou [17] – Rive-Nord QC
Pourquoi suis-je psychopathe?

Elaijah Isaac [15], **Jenny Okituk** [14] – Aboriginal Québec Autochtone QC
Qullik 2.0 La mise à jour sur la lampe inuit traditionnelle

Cassandra Jacob-Gagné [20] – Abitibi-Témiscamingue QC
Cracher sur le cerveau

Sahana Kalidindi [14] – Windsor ON
Solar-Potential Energy Storage and Water Purification Hybrid System

Philip Kawalec [18] – Winnipeg Schools MB
Cavendish Clones: A Solution to Sustainable Water Filtering

Faran Khan [13] – Edmonton AB
Let's Roll!

Alec Krawciw [16] – Vancouver Island BC
Graphene: The Next Generation of Printed Circuits

Élisabeth Lapointe [16] – Mauricie, Centre-du-Québec QC
Filtrons l'océan!

Jett Larsen [14] – Cariboo Mainline BC
Time Flies

Megan Downe [13], **Neleah Lavoie** [12] – 4H Canada NS
Reward vs. Punishment: Which is the Better Motivator?

Noémy Lefebvre [16] – Rive-Nord QC
Contre les allergies, on agit!

Rebecca Lewis [17] – Cape Breton NS
Enzymatic Hydrolysis by Decomposers

Justin Xi-Yuan Lin [16] – Manitoba Schools Science Symposium MB
Regulation of Fibronectin Gene Expression in Fibroblasts by Scleraxis

Monica Aida Lopez Quiroz [13] – Calgary Youth AB
Inhibiting Apoptosis with Caffeine

Melissa Lu [16] – Montreal QC
Characterizing RASGRP4 Mutations and Targeting ERK in R-CHOP Resistant

Benjamin Ma [13] – Peel ON
Let's Do the Moringa

Marcelle MacKenzie [14] – Conseil scolaire acadien provincial (CSAP) NS
Les ballons d'eau : la résistance et l'apparence

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Alyson Cook [18], **Alexander Magnus** [17] – Northwest Saskatchewan SK
Crooked Chemistry

Florence Deschênes [18], **Ève Mallet Gauthier** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Écôneau

Matthias Gasser [13], **Finn Manktelow** [13] – Canadian Rockies AB
Algaticity

Jacqueline Mansiere [14] – Central Okanagan BC
Filthy Water Cannot Be Washed: Pharmaceuticals and Personal Care Products

Isaac McAuley [17] – Saskatchewan Chinook SK
A "Net" Profit

Vanessa McKay [17] – St. James-Assiniboia MB
Using a Low-Density Field to Improve Water Vessel Speed and Efficiency

Ruth Meyer [13] – Waterloo-Wellington ON
The Impact of Modelled Exit Signalling Behaviour on Other Drivers In Roundabouts

Audrey Millette [12], **Alexa Villeneuve** [12] – United Counties ON
« Santé »-vous bien quand vous dinez?

Maitry Mistry [16] – Manitoba Schools Science Symposium MB
A Novel Inexpensive Alternative Approach to X-Ray Radiographic Tests

Bhavya Mohan [13] – Ottawa ON
The Silver Bullet: A Novel Antibody-AgNP Complex for Cancer Treatment

Ellen Moore [15], **Madeline Shanks** [15] – Annapolis Valley NS
Stop Light on Sweetener Street: Sweeteners and the Gut Microbiome

Myles Mueller [16] – Niagara ON
Application of Tool Coatings to Address Tool Wear for Steel & Titanium Machining

Tasnia Nabil [15] – Windsor ON
Uncovering the Thermal Response of Ferromagnetic NanoTherapy to Cure Cancer

Helen Newton [15] – Cariboo Mainline BC
From Plastic to Plants: An Open Source Approach to 3D Bioprinting

Angellica Nguyen [13], **Irene Ni** [14] – Peel ON
In Love with the Coco

Julian Oxner [15] – Halifax NS
IronMax: A New Source of High Iron Food

Ashok Pandey [14] – Waterloo-Wellington ON
The Impact of Restorative Yoga and Stretching on Blood Pressure and Heart Rate

Priyank Patel [17] – Lambton County ON
Hybrid Supercapacitor – Battery System for Electric Vehicles

Dylan Peil [15] – West Kootenay & Boundary BC
Active Solar Tracker

Vladislav Pomogaev [17] – Greater Vancouver BC
Designing an Electric Skateboard

Caitlyn Pratt [17] – Eastern Newfoundland NL
Impact of an Oil Spill and Emergency Response on Thick-billed Murre Feathers

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Jackson Price [13] – Northern British Columbia BC
Powered By Spit

Crystal Radinski [15] – Calgary Youth AB
Aiding Biodegradation by Limiting Carbon

Eli Ramraj [15] – Vancouver Island BC
Improving Memory: Spatial vs. Rote Memory

Tooba Razi [15] – Manitoba Schools Science Symposium MB
The Identification of Natural Products from Cinnamon for Diabetic Treatment

Angie Redford [14] – Sunset Country ON
Is the Media All the Hype?

Emma Regier [14], **Jillian Regier** [13] – Avon Maitland-Huron Perth ON
Temperature Tangles

Colette Reimer [15] – Vancouver Island BC
Fuel Vapour: An enhanced method for fuel efficiency

Chloe Reitlo [13] – Northern Manitoba MB
Can Coagulants Reduce Heavy Metals in Leachate?

Emma-Lee Rhyno [16] – Chignecto West NS
Wiggling Towards A Pollution Solution

Teagan Ribbink [12] – Central Okanagan BC
Pump Up The Velocity

Viraji Rupasinghe [16] – Chignecto West NS
Comparing the Harmful Effects of Bisphenol S to Bisphenol A

Marika Schenkels [15] – Chignecto West NS
Balanced Learning: Yoga for Academic Performance

Elizabeth Schulz [17] – Central Interior British Columbia BC
It's Not Black and White: The Effect of Coloured Light on Lymnae Stagnalis

Rohan Sethi [13] – Manitoba Schools Science Symposium MB
To Study Synergy Effect of Medicinal Plants on Antimicrobial Activity of Garlic

Dante Severini [18] – Algoma Rotary ON
The Effect of Antacids on the Breakdown of Enteric Coated Pharmaceuticals

Dhruvil Shah [16] – Wood Buffalo AB
Improving the Accessibility and Applicability of Water for Human Necessities

Evan Sharma [12] – Frontenac, Lennox & Addington ON
Poopalicious: Changing the Microbiome with FMT

Dina Shehata [16] – Eastern Newfoundland NL
A Low Cost Phantom Model for Point of Care Ultrasound Training

Toby David Small [14] – Northwestern Ontario ON
Maple Syrup: A solution to assist the goal of self sustenance in space?

Syni Solanki [12] – Niagara ON
Graphene Sand Desalinators

Crystal Daniel [15], **Tanner Stevens** [16] – Prairie Valley SK
Out of the Elements

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-
- Ava Stokke** [14] – Winnipeg Schools MB
Antibiotics Everywhere! Using Bacteria to Detect Antibiotic Residues in Meat
-
- Brenton Sutherland** [17] – Strait NS
Safe Skies
-
- Bjorn Svorkdal** [15] – Vancouver Island BC
Barrel-ponics: Is it an improvement over traditional farming?
-
- Justin Tang** [16] – York ON
Hand Function Recovery Device
-
- Iqra Sahar Tariq** [17] – Manitoba Schools Science Symposium MB
Exploring the Effects of Twelve Herbs on Type 2 Diabetes and Their Components
-
- Drishti Thakkar** [18] – Peel ON
Starving the Cancer
-
- Arianne Tremblay** [17], **Emmy Tremblay** [15] – Saguenay-Lac Saint-Jean QC
La puissance des eaux grises
-
- Joy Shah** [16], **Parth Vachharajani** [16] – Lambton County ON
The World's First Biological Power Plant
-
- Gabriel Valin** [15] – United Counties ON
Une alternative verte
-
- Maximo van der Raadt** [14] – Calgary Youth AB
Graphene Based Batteries/Supercapacitors
-
- Tyler Sun** [13], **Kaden Venugopal** [13] – River Valley NB
Guns to Heal
-
- David Vidican** [12] – Bay Area ON
TAGUCHI Method Applied for Optimizing the Performance of a Trebuchet
-
- Alexander Waldie** [18] – Bay Area ON
The Synthesis of Silver Nanoparticles and Their Effects on Plant Growth
-
- Noah Wamboldt** [15] – Prince Edward Island PE
Mechanical Boots
-
- Katelyn Wang** [14] – York ON
Landfill Reduction by Reusing Polyethylene
-
- Tessa Warhurst** [15] – Cariboo Mainline BC
Can You See a Four Leaf Clover?
-
- Sophie Weider** [13] – Ottawa ON
Plastic Waters
-
- Danté Wong** [16] – Greater Vancouver BC
An Untapped Source of Energy: Creating a Water Hammer Arrestor/Energy Harvester
-
- Austin Wu** [14], **Kamron Zaidi** [14] – York ON
Fogponics: The Future of Food
-
- Kelly Yang** [17] – Northwestern Ontario ON
Let Cancer Kill Cancer: A novel therapeutic strategy

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University of Ottawa Entrance Scholarship

Senior Gold Medallist - \$4,000 Entrance Scholarship

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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.

Sascha Bodak [17] – Thames Valley ON

Generating Musical Accompaniment Using Machine Learning

Ruicen (David) He [17] – Edmonton AB

Agging in Human Cells is Linked to BubR1 Expression

Shayan Hemmati [16] – Calgary Youth AB

Role of ING1 in Squamous Cell Carcinoma

Meaghan MacKenzie [16] – South Fraser BC

Myriophyllum spicatum: A Threat To Habitat Biodiversity—An Invasive Species PI

Caroline Mahut [17] – Bay Area ON

Slowing Down To Power Your Town

Lucas Penny [17] – Niagara ON

Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer

Aoife Pucchio [17] – Thames Valley ON

Styrofoam - A Problem We Need to (dis)-Solve

Amit Scheer [17] – Ottawa ON

ImmunoBEAM: A Novel Biomaterial Conjugate as a Therapeutic Vaccination Platform

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At A Measured Step: An Orthopaedic Pressure-Based Rehabilitative Insole

Gerry Nour Chamaa [19] – Estrie QC

Une perspective nébuleuse

Marianne Drolet-Sénéchal [17] – Estrie QC

La loterie quantique

Ameer Farrukh [17] – Eastern Newfoundland NL

Implementing Biomarkers in Cardiomyocyte Cells for the use in Cardiotoxicity Scr

John Fish [16] – Waterloo-Wellington ON

A Novel Method in Tree Biomass Calculation

Léa Gariépy [16] – Québec et Chaudière-Appalaches QC

Phénol-Rince

Natasha Grimard [18] – Vancouver Island BC

Entomonoodles: An Exploration Of Entomophagy's Applications To Refugee Nutriti

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Emerson Hsieh [16] – South Fraser BC
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iDentifi: Using Computer Vision to Help Visually Impaired Individuals

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Himanshu Sharma [16], **Derek Yin** [17] – Manitoba Schools Science Symposium MB
E-Walker: Formulating a Faster and Safer Stroke Recovery with Digital Sensors

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.

Winnica Beltrano [18] – Manitoba Schools Science Symposium MB
Comparison of Tractography in Mouse Models of Human Diseases

Nitish Bhatt [17] – Eastern Newfoundland NL
CALM: A Computational Approach for Landslide Mitigation and Study

Masum Billah [16], **Calvin Veenkamp** [17] – Toronto ON
Walking Analysis: A Gait-Way to a Better Future

Ashleigh Larissa Brady [17], **Reagan Alexandra Lawton** [18] – North Bay ON
Company in the Shower

Eva Cai [17] – Greater Vancouver BC
Evaluation of Anti-Inflammatory Effects of Flavonoids in Pomelo Peel Extracts

Jay Chen [16] – Northwestern Ontario ON
Biomass Derived Carbon for Innovative Water Purification and Metal Extraction

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Teresa Deng [19] – Carlton Trail SK
Algae to Biofuel

Manuel Dionne [18] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Vote CDJ – une nouvelle façon de pratiquer la démocratie

Allie Fraser [18], **Brenna Martell** [18] – Strait NS
Pour Some Sugar on Me

Ansh Goyal [17] – Ottawa ON
LRRK2 controls alpha-synuclein levels via microRNAs in Parkinson's disease

Brandon Greenall [17] – Pacific Northwest BC
The Management of Diabetes in Northwest British Columbia

Shahmeer Ahmad [17], **Surina Grover** [17] – Southeast Alberta AB
Chemotherapy in a Nutshell

Linda Guo [18] – Wood Buffalo AB
In-Sight

Lai-Ann Imbeault-Nepton [17] – Saguenay-Lac Saint-Jean QC
Valeurs 2.0

Hadile Imillou [17] – Rive-Nord QC
Pourquoi suis-je psychopathe?

Cassandre Jacob-Gagné [20] – Abitibi-Témiscamingue QC
Cracher sur le cerveau

Philip Kawalec [18] – Winnipeg Schools MB
Cavendish Clones: A Solution to Sustainable Water Filtering

Alec Krawciw [16] – Vancouver Island BC
Graphene: The Next Generation of Printed Circuits

Rebecca Lewis [17] – Cape Breton NS
Enzymatic Hydrolysis by Decomposers

Justin Xi-Yuan Lin [16] – Manitoba Schools Science Symposium MB
Regulation of Fibronectin Gene Expression in Fibroblasts by Scleraxis

Melissa Lu [16] – Montreal QC
Characterizing RASGRP4 Mutations and Targeting ERK in R-CHOP Resistant

Alyson Cook [18], **Alexander Magnus** [17] – Northwest Saskatchewan SK
Crooked Chemistry

Florence Deschênes [18], **Ève Mallet Gauthier** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Écôneau

Isaac McAuley [17] – Saskatchewan Chinook SK
A "Net" Profit

Vanessa McKay [17] – St. James-Assiniboia MB
Using a Low-Density Field to Improve Water Vessel Speed and Efficiency

Priyank Patel [17] – Lambton County ON
Hybrid Supercapacitor – Battery System for Electric Vehicles

Vladislav Pomogaev [17] – Greater Vancouver BC
Designing an Electric Skateboard

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Caitlyn Pratt [17] – Eastern Newfoundland NL
Impact of an Oil Spill and Emergency Response on Thick-billed Murre Feathers

Emma-Lee Rhyno [16] – Chignecto West NS
Wiggling Towards A Pollution Solution

Elizabeth Schulz [17] – Central Interior British Columbia BC
It's Not Black and White: The Effect of Coloured Light on Lymnae Stagnalis

Dante Severini [18] – Algoma Rotary ON
The Effect of Antacids on the Breakdown of Enteric Coated Pharmaceuticals

Dina Shehata [16] – Eastern Newfoundland NL
A Low Cost Phantom Model for Point of Care Ultrasound Training

Brenton Sutherland [17] – Strait NS
Safe Skies

Iqra Sahar Tariq [17] – Manitoba Schools Science Symposium MB
Exploring the Effects of Twelve Herbs on Type 2 Diabetes and Their Components

Drishti Thakkar [18] – Peel ON
Starving the Cancer

Arianne Tremblay [17], **Emmy Tremblay** [15] – Saguenay-Lac Saint-Jean QC
La puissance des eaux grises

Joy Shah [16], **Parth Vachharajani** [16] – Lambton County ON
The World's First Biological Power Plant

Alexander Waldie [18] – Bay Area ON
The Synthesis of Silver Nanoparticles and Their Effects on Plant Growth

Danté Wong [16] – Greater Vancouver BC
An Untapped Source of Energy: Creating a Water Hammer Arrestor/Energy Harvester

Kelly Yang [17] – Northwestern Ontario ON
Let Cancer Kill Cancer: A novel therapeutic strategy

University of Manitoba Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: University of Manitoba

The Office of the Vice-President (Research & 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;

Sascha Bodak [17] – Thames Valley ON
Generating Musical Accompaniment Using Machine Learning

Ruicen (David) He [17] – Edmonton AB
Aging in Human Cells is Linked to BubR1 Expression

Shayan Hemmati [16] – Calgary Youth AB
Role of ING1 in Squamous Cell Carcinoma

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Meaghan MacKenzie [16] – South Fraser BC
Myriophyllum spicatum: A Threat To Habitat Biodiversity—An Invasive Species PI

Caroline Mahut [17] – Bay Area ON
Slowing Down To Power Your Town

Lucas Penny [17] – Niagara ON
Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer

Aoife Pucchio [17] – Thames Valley ON
Styrofoam - A Problem We Need to (dis)-Solve

Amit Scheer [17] – Ottawa ON
ImmunoBEAM: A Novel Biomaterial Conjugate as a Therapeutic Vaccination Platform

Devanshi Shukla [18] – Waterloo-Wellington ON
A Biosensor for the Detection of Microbial Contamination

Katherine Teeter [17] – Bluewater ON
Synthetic Limpet Teeth for Improved Joint Performance

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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Synthetic Limpet Teeth for Improved Joint Performance

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



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.

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At A Measured Step: An Orthopaedic Pressure-Based Rehabilitative Insole

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Marianne Drolet-Sénéchal [17] – Estrie QC

La loterie quantique

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Detection of DNA Integration in Tardigrades after Anhydrobiosis

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Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



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The Role of Fabric in the Prevention of Nosocomial Illness

Himanshu Sharma [16], **Derek Yin** [17] – Manitoba Schools Science Symposium MB
E-Walker: Formulating a Faster and Safer Stroke Recovery with Digital Sensors

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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Synthetic Limpet Teeth for Improved Joint Performance

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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E-Walker: Formulating a Faster and Safer Stroke Recovery with Digital Sensors

Excellence Award - Senior

Gold Medal

Sponsor: Youth Science Canada

Medal, \$250 cash & certificate

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A Biosensor for the Detection of Microbial Contamination

Katherine Teeter [17] – Bluewater ON
Synthetic Limpet Teeth for Improved Joint Performance

Excellence Award - Intermediate

Gold Medal

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

William Gadoury [15] – Mauricie, Centre-du-Québec QC
Découverte depuis l'espace

Nicole Green [16] – Central Alberta AB
Gender Imbalance: The Influence of the Stereotype Threat on Women in STEM

Tahmid Khan [15] – Calgary Youth AB
The Development of Adaptive Wheels

Marina McInnis [16] – Ottawa ON
Floating an Idea - Preventing Mysterious Drownings in Experienced Swimmers

Isabella O'Brien [14] – Bay Area ON
Aquatic Osteoporosis: Remediating the emerging problem of lake calcium decline

Zeel Patel [16] – Calgary Youth AB
CADSense: A Novel Biosensor Optimized For The Early Diagnosis Of Atherosclerosis

Abhinav Boyed [16], **Karthik Prasad** [15] – Peel ON
The Thermovoltaic Cell

Zwetlana Rajesh [15] – Renfrew County ON
Testing the Acceptance of Phantom Limb in Non-Amputees

Kayley Ting [15] – York ON
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Kelvin Zhang [16] – Greater Vancouver BC
Using Genetic Algorithms to Create Safer Self-Driving Cars

Excellence Award - Junior

Gold Medal

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

Brent Charron [13] – Windsor ON
The Graphene Enhanced S.W.I.F.T. Unit

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Sophia Cottrill [13] – Bluewater ON

Evolution or Extinction? Time Will Tell for the King of the Arctic

Sophie Hoyer Pacholek [12] – Calgary Youth AB

The Genius Genus: Aspen Adaptations

Myers Illes [13] – Central Interior British Columbia BC

Grey Water, Green Plants

Daniel Jeyaraj [13] – Ottawa ON

Delay in Fruit Ripening: An Approach to Reduce Ethylene Production in Bananas

Aaliyah Mahboubi [13] – Pacific Northwest BC

Microbial-Film Power Generation

Adam Martinez [14] – Waterloo-Wellington ON

The Effects of Nanosilver on the Ionic Silver Resistant Plasmid (pMG101)

Zoe Chisholm [14], **Camila Moran-Hidalgo** [13] – Bay Area ON

Antimicrobial Wound Dressing from Synthesized Silver Nanoparticles on Cellulose

Nattan Telmer [13] – Vancouver Island BC

Thermo-electric generators to charge electronic devices in the wilderness

Micah Windsor-Freeman [14] – Northwestern Ontario ON

Learning from Flint: Is NaOH the Solution to Pb-Contaminated Drinking Water?

Excellence Award - Senior

Silver Medal

Sponsor: Youth Science Canada

Medal & certificate

Katie Brent [17] – Bay Area ON

At A Measured Step: An Orthopaedic Pressure-Based Rehabilitative Insole

Gerry Nour Chamaa [19] – Estrie QC

Une perspective nébuleuse

Marianne Drolet-Sénéchal [17] – Estrie QC

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The Role of Fabric in the Prevention of Nosocomial Illness

Himanshu Sharma [16], **Derek Yin** [17] – Manitoba Schools Science Symposium MB

E-Walker: Formulating a Faster and Safer Stroke Recovery with Digital Sensors

Excellence Award - Intermediate

Silver Medal

Sponsor: Youth Science Canada

Medal & certificate

Victoria Allen [15], **Sarah Veilleux** [16] – Mauricie, Centre-du-Québec QC

Vous en saliverez!

Elias Andersen [16] – Simcoe County ON

You're Out! An Electronic Baseball Umpire

Shaan Baig [15], **Labib-Daiyan Syed** [16] – Montreal QC

The Key to Unlocking BCa

Catherine Beaudin [15] – Ottawa ON

Reversing Atherosclerosis: Development of a Biocompatible Solvent

Colette Benko [15] – Calgary Youth AB

Inhibition of EZH2 in Neuroblastoma Cells

Evan Chan [14] – Winnipeg Schools MB

The Effects of Guanosine on Essential Neurotoxins in the Parkinson's Disease

Chloe Chen [16] – Greater Vancouver BC

Disproving and Rederiving Betz's Law Through Theoretical and Experimental Method

Luc Couture [15] – Sudbury ON

L'endroit idéal pour botter un ballon le plus loin possible

Rachel Cuell [14] – Pacific Northwest BC

Climate Change: Time to be Enrichened

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Maria Duynisveld [15] – Chignecto East NS
Something in the Way They Mooove

Frances Emery [15] – Peterborough ON
What's the Best Anti-Butt? Algae, Coconut or Banana - Designing Eco-Fliters

Sophie Fraser [15] – Annapolis Valley NS
Common Sensors: Impact Sensors for Helmets

Audrey Golsteyn [14] – Lethbridge AB
Les épices au secours des infections alimentaires

Thomas Imbeault-Nepton [15] – Saguenay-Lac Saint-Jean QC
Éclaire ton attention!

Léo Lechaume-Robert [15] – Québec et Chaudière-Appalaches QC
Quand la TBE sort au resto!

Phyllis Lesnikov [15] – Greater Vancouver BC
The Remediation of Britannia Mine through Phytoremediation and Chemical Washing

Olivia Li [16] – Greater Vancouver BC
Creating Electrotrophs to Find Changes that Impact Extracellular Electron Uptake

Jack Edward Mogus [15] – Bay Area ON
GRAPHENE REINFORCED GUAYULE RUBBER Conductive Hypoallergenic

Marin Schultz [15] – Lethbridge AB
Smart Prosthetic-Smart Object: A New Approach to Interactive Control and Design

Kyra Taylor [15] – Northern British Columbia BC
Equine Hydroponic Forage: Can it really benefit Equine Nutritional Needs?

Excellence Award - Junior

Silver Medal

Sponsor: Youth Science Canada
Medal & certificate

Joshua Balisch [13] – Ottawa ON
A Follower Robot

Teryl Bates [13] – Central Okanagan BC
Power of Phi

Nate Bilsky [12] – Fundy NB
La maison pliante

Noah Davidson [13] – St. James-Assiniboia MB
The Sweet Spot

Paul Drakos [14] – Bay Area ON
A Prototype "Water Coil" for Generating Electricity

Fionn Forbes [13] – St. James-Assiniboia MB
Fish Fuel

Patrick Geertz [12] – Central Okanagan BC
The Effect of Dissolved Oxygen and pH on Wetland Aquatic Invertebrate Diversity

Mackenzie Guy [13] – Wood Buffalo AB
Chillin' with Hot Flashes

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Nicholas Hall [13], Matthew Malley [13] – Timmins ON
Je meurs de chaleur

William Hamilton [14] – Northern British Columbia BC
Personal Escape Pods : A New Emergency Breathing Apparatus

Zoe Harris [12] – Ottawa ON
Red Light Green Light Fuzzy In-Between Light

Imogen Lawford-Wickham [12] – Frontenac, Lennox & Addington ON
T1D Mouthguard

Connor Maxwell [13] – Bluewater ON
Farmland To Filtration: Improving Water Quality

Maren McIntosh [13] – Calgary Youth AB
How Music Affects Horses

Caitlin Mungall [13] – Greater Vancouver BC
Maple Syrup can FIX that

Matthew Potter [13] – Sunset Country ON
What's Hot What's Not?

Joseph Saturnino [13] – Bay Area ON
Wearable Sonar Technology

Juvea Mastromatteo [12], Sarah Simionescu [13] – Niagara ON
The Audio Maze

Michael Wolfe [13] – Bay Area ON
Wi-Tricity on Wheels: Solar/Hydro Hybrid Wireless Charging of Electric Vehicles

Emily Zbaraschuk [13] – Prince Albert & Northeast Saskatchewan SK
Music, Rocks and all that Jazz - How Music Affects Learning

Excellence Award - Senior

Bronze Medal

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Medal & certificate

Winnica Beltrano [18] – Manitoba Schools Science Symposium MB
Comparison of Tractography in Mouse Models of Human Diseases

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Teresa Deng [19] – Carlton Trail SK
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Linda Guo [18] – Wood Buffalo AB
In-Sight

Lai-Ann Imbeault-Nepton [17] – Saguenay-Lac Saint-Jean QC
Valeurs 2.0

Hadile Imillou [17] – Rive-Nord QC
Pourquoi suis-je psychopathe?

Cassandre Jacob-Gagné [20] – Abitibi-Témiscamingue QC
Cracher sur le cerveau

Philip Kawalec [18] – Winnipeg Schools MB
Cavendish Clones: A Solution to Sustainable Water Filtering

Alec Krawciw [16] – Vancouver Island BC
Graphene: The Next Generation of Printed Circuits

Rebecca Lewis [17] – Cape Breton NS
Enzymatic Hydrolysis by Decomposers

Justin Xi-Yuan Lin [16] – Manitoba Schools Science Symposium MB
Regulation of Fibronectin Gene Expression in Fibroblasts by Scleraxis

Melissa Lu [16] – Montreal QC
Characterizing RASGRP4 Mutations and Targeting ERK in R-CHOP Resistant

Alyson Cook [18], **Alexander Magnus** [17] – Northwest Saskatchewan SK
Crooked Chemistry

Florence Deschênes [18], **Ève Mallet Gauthier** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Écôneau

Isaac McAuley [17] – Saskatchewan Chinook SK
A "Net" Profit

Vanessa McKay [17] – St. James-Assiniboia MB
Using a Low-Density Field to Improve Water Vessel Speed and Efficiency

Priyank Patel [17] – Lambton County ON
Hybrid Supercapacitor – Battery System for Electric Vehicles

Vladislav Pomogaev [17] – Greater Vancouver BC
Designing an Electric Skateboard

Caitlyn Pratt [17] – Eastern Newfoundland NL
Impact of an Oil Spill and Emergency Response on Thick-billed Murre Feathers

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Emma-Lee Rhyno [16] – Chignecto West NS

Wiggling Towards A Pollution Solution

Elizabeth Schulz [17] – Central Interior British Columbia BC

*It's Not Black and White: The Effect of Coloured Light on *Lymnae Stagnalis**

Dante Severini [18] – Algoma Rotary ON

The Effect of Antacids on the Breakdown of Enteric Coated Pharmaceuticals

Dina Shehata [16] – Eastern Newfoundland NL

A Low Cost Phantom Model for Point of Care Ultrasound Training

Brenton Sutherland [17] – Strait NS

Safe Skies

Iqra Sahar Tariq [17] – Manitoba Schools Science Symposium MB

Exploring the Effects of Twelve Herbs on Type 2 Diabetes and Their Components

Drishti Thakkar [18] – Peel ON

Starving the Cancer

Arianne Tremblay [17], **Emmy Tremblay** [15] – Saguenay-Lac Saint-Jean QC

La puissance des eaux grises

Joy Shah [16], **Parth Vachharajani** [16] – Lambton County ON

The World's First Biological Power Plant

Alexander Waldie [18] – Bay Area ON

The Synthesis of Silver Nanoparticles and Their Effects on Plant Growth

Danté Wong [16] – Greater Vancouver BC

An Untapped Source of Energy: Creating a Water Hammer Arrestor/Energy Harvester

Kelly Yang [17] – Northwestern Ontario ON

Let Cancer Kill Cancer: A novel therapeutic strategy

Excellence Award - Intermediate

Bronze Medal

Sponsor: Youth Science Canada

Medal & certificate

Katelyn Anthony [14] – Annapolis Valley NS

Tiny Titans: Silver Nanoparticles

Ishmum Aatur [16] – Greater Vancouver BC

Tumor-Specific TCR-pMHC Database

Shruthi Bandi [15] – Prince Edward Island PE

What are the Beneficial Effects of Curcumin?

Laney Beaulieu [16], **Isaac Simon** [15] – South Slave NT

On the Pathway to Healing: Risk Factors of Alcoholism in Fort Resolution, NT

Allison Cai [16] – Waterloo-Wellington ON

Influence of Habitat on Cellobiase Activity in Mushrooms

Mavi Deol [15] – Lambton County ON

Innovative Helmet Design to Reduce Brain Injury

Léa Drolet-Roy [14] – Québec et Chaudière-Appalaches QC

VSV-EBOV contre Ébola

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



-
- Lydia Elbatarny** [14] – Frontenac, Lennox & Addington ON
Caged In: A Novel Approach to Metal Extraction
-
- Minoosh Fathi** [15] – Simcoe County ON
Refuelling with Sugar
-
- Nicolas Fedrigo** [15] – Vancouver Island BC
Core Temperature Control Glove
-
- Zane Frantzen** [15] – Simcoe County ON
Smart Water Monitoring System: Using Microcontroller Technology
-
- William Harvey** [16] – Saguenay-Lac Saint-Jean QC
Muscle tes satellites
-
- Mary Hoover** [15] – Parkland SK
It's Bright, but You Can't See It
-
- Élisabeth Lapointe** [16] – Mauricie, Centre-du-Québec QC
Filtrons l'océan!
-
- Jett Larsen** [14] – Cariboo Mainline BC
Time Flies
-
- Noémy Lefebvre** [16] – Rive-Nord QC
Contre les allergies, on agit!
-
- Marcelle MacKenzie** [14] – Conseil scolaire acadien provincial (CSAP) NS
Les ballons d'eau : la résistance et l'apparence
-
- Maitry Mistry** [16] – Manitoba Schools Science Symposium MB
A Novel Inexpensive Alternative Approach to X-Ray Radiographic Tests
-
- Ellen Moore** [15], **Madeline Shanks** [15] – Annapolis Valley NS
Stop Light on Sweetener Street: Sweeteners and the Gut Microbiome
-
- Myles Mueller** [16] – Niagara ON
Application of Tool Coatings to Address Tool Wear for Steel & Titanium Machining
-
- Tasnia Nabil** [15] – Windsor ON
Uncovering the Thermal Response of Ferromagnetic NanoTherapy to Cure Cancer
-
- Helen Newton** [15] – Cariboo Mainline BC
From Plastic to Plants: An Open Source Approach to 3D Bioprinting
-
- Julian Oxner** [15] – Halifax NS
IronMax: A New Source of High Iron Food
-
- Dylan Peil** [15] – West Kootenay & Boundary BC
Active Solar Tracker
-
- Crystal Radinski** [15] – Calgary Youth AB
Aiding Biodegradation by Limiting Carbon
-
- Eli Ramraj** [15] – Vancouver Island BC
Improving Memory: Spatial vs. Rote Memory
-
- Tooba Razi** [15] – Manitoba Schools Science Symposium MB
The Identification of Natural Products from Cinnamon for Diabetic Treatment
-
- Colette Reimer** [15] – Vancouver Island BC
Fuel Vapour: An enhanced method for fuel efficiency

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



-
- Viraji Rupasinghe** [16] – Chignecto West NS
Comparing the Harmful Effects of Bisphenol S to Bisphenol A
-
- Marika Schenkels** [15] – Chignecto West NS
Balanced Learning: Yoga for Academic Performance
-
- Dhrumil Shah** [16] – Wood Buffalo AB
Improving the Accessibility and Applicability of Water for Human Necessities
-
- Crystal Daniel** [15], **Tanner Stevens** [16] – Prairie Valley SK
Out of the Elements
-
- Bjorn Svorkdal** [15] – Vancouver Island BC
Barrel-ponics: Is it an improvement over traditional farming?
-
- Justin Tang** [16] – York ON
Hand Function Recovery Device
-
- Gabriel Valin** [15] – United Counties ON
Une alternative verte
-
- Maximo van der Raadt** [14] – Calgary Youth AB
Graphene Based Batteries/Supercapacitors
-
- Noah Wamboldt** [15] – Prince Edward Island PE
Mechanical Boots
-
- Katelyn Wang** [14] – York ON
Landfill Reduction by Reusing Polyethylene
-
- Tessa Warhurst** [15] – Cariboo Mainline BC
Can You See a Four Leaf Clover?
-
- Austin Wu** [14], **Kamron Zaidi** [14] – York ON
Fogponics: The Future of Food
-

Excellence Award - Junior

Bronze Medal

Sponsor: Youth Science Canada
Medal & certificate

-
- Muhammad Yaseen Abbas** [13] – York ON
Put Breaks On Neoplasia
-
- Hongjoo An** [14] – Peel ON
Light the Green
-
- Catherine Andary** [13] – Windsor ON
La désalinisation illuminée!
-
- Rohan Batchu** [13], **Anthony Louie** [14] – York ON
A Multifunctional Innovation For Efficient CO2 Reduction
-
- Eran Bursey** [12] – Sudbury ON
The Effect of Worms on the Decomposition of Food Waste
-
- Jack Bussin** [14], **Ryan Li** [14] – Toronto ON
True Colours: Exploring the Science of the Stroop Effect
-
- Tori Chen** [14] – Thames Valley ON
Sugar Science
-

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Rémie Cherepak [13] – Yukon/Stikine YT <i>Would you Eat these Peas?</i>
Ben d'Entremont [13] – Fundy NB <i>Driven to Distraction</i>
Danielle D'Souza [14] – York ON <i>Project LEAP</i>
Christopher Fortini [12] – Toronto ON <i>Attention Athletes...Do You Know What You're Drinking?</i>
Mihir Gothal [13] – Edmonton AB <i>Efficacy of Colloidal Silver</i>
Madison Greek [13] – South Shore NS <i>Does She See He Sees</i>
Ainsley Horton [13] – Central Okanagan BC <i>Wasted Water - Do We Really Need Watering Restrictions?</i>
Elaijah Isaac [15], Jenny Okituk [14] – Aboriginal Québec Autochtone QC <i>Qullik 2.0 La mise à jour sur la lampe inuit traditionnelle</i>
Sahana Kalidindi [14] – Windsor ON <i>Solar-Potential Energy Storage and Water Purification Hybrid System</i>
Faran Khan [13] – Edmonton AB <i>Let's Roll!</i>
Megan Downe [13], Neleah Lavoie [12] – 4H Canada NS <i>Reward vs. Punishment: Which is the Better Motivator?</i>
Monica Aida Lopez Quiroz [13] – Calgary Youth AB <i>Inhibiting Apoptosis with Caffeine</i>
Benjamin Ma [13] – Peel ON <i>Let's Do the Moringa</i>
Matthias Gasser [13], Finn Manktelow [13] – Canadian Rockies AB <i>Algalricity</i>
Jacqueline Mansiere [14] – Central Okanagan BC <i>Filthy Water Cannot Be Washed: Pharmaceuticals and Personal Care Products</i>
Ruth Meyer [13] – Waterloo-Wellington ON <i>The Impact of Modelled Exit Signalling Behaviour on Other Drivers In Roundabouts</i>
Audrey Millette [12], Alexa Villeneuve [12] – United Counties ON <i>« Santé »-vous bien quand vous dinez?</i>
Bhavya Mohan [13] – Ottawa ON <i>The Silver Bullet: A Novel Antibody-AgNP Complex for Cancer Treatment</i>
Angellica Nguyen [13], Irene Ni [14] – Peel ON <i>In Love with the Coco</i>
Ashok Pandey [14] – Waterloo-Wellington ON <i>The Impact of Restorative Yoga and Stretching on Blood Pressure and Heart Rate</i>
Jackson Price [13] – Northern British Columbia BC <i>Powered By Spit</i>

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Angie Redford [14] – Sunset Country ON
Is the Media All the Hype?

Emma Regier [14], **Jillian Regier** [13] – Avon Maitland-Huron Perth ON
Temperature Tangles

Chloe Reitlo [13] – Northern Manitoba MB
Can Coagulants Reduce Heavy Metals in Leachate?

Teagan Ribbink [12] – Central Okanagan BC
Pump Up The Velocity

Rohan Sethi [13] – Manitoba Schools Science Symposium MB
To Study Synergy Effect of Medicinal Plants on Antimicrobial Activity of Garlic

Evan Sharma [12] – Frontenac, Lennox & Addington ON
Poopalicious: Changing the Microbiome with FMT

Toby David Small [14] – Northwestern Ontario ON
Maple Syrup: A solution to assist the goal of self sustenance in space?

Syni Solanki [12] – Niagara ON
Graphene Sand Desalinators

Ava Stokke [14] – Winnipeg Schools MB
Antibiotics Everywhere! Using Bacteria to Detect Antibiotic Residues in Meat

Tyler Sun [13], **Kaden Venugopal** [13] – River Valley NB
Guns to Heal

David Vidican [12] – Bay Area ON
TAGUCHI Method Applied for Optimizing the Performance of a Trebuchet

Sophie Weider [13] – Ottawa ON
Plastic Waters

Gold Medal - International

Sponsor: Youth Science Canada
Medal and a certificate

Serra Doganata [17] – Turkey
Gas Sensor Applications with Photonic Crystal Fiber&Carbon Dioxide Sensor Design

Victor Reynoso Martinez [15] – Mexico
Fertiorin Pills: solid fertilizer slow release based on human urine

Matthew Dookie [15], **Alec Scarabelli** [16] – St. Maarten
May the Phosphorus be Extracted

Silver Medal - International

Sponsor: Youth Science Canada
Medal and a certificate

Yosi Kohen Kutucu [17] – Turkey
“ALTERNA-TESLA” ENERGY BAG THAT CAN STORE ENERGY FROM

Challenge Award - Resources

Senior
Sponsor: Youth Science Canada
Certificate

Daniel O'Reilly [16] – Central Interior British Columbia BC
Leeches Unleashed

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Challenge Award - Resources

Intermediate

Sponsor: Youth Science Canada
Certificate

Maria Duynisveld [15] – Chignecto East NS
Something in the Way They Mooove

Challenge Award - Resources

Junior

Sponsor: Youth Science Canada
Certificate

Brent Charron [13] – Windsor ON
The Graphene Enhanced S.W.I.F.T. Unit

Challenge Award - Innovation

Senior

Sponsor: Youth Science Canada
Certificate

Caroline Mahut [17] – Bay Area ON
Slowing Down To Power Your Town

Challenge Award - Innovation

Intermediate

Sponsor: Youth Science Canada
Certificate

Marina McInnis [16] – Ottawa ON
Floating an Idea - Preventing Mysterious Drownings in Experienced Swimmers

Challenge Award - Innovation

Junior

Sponsor: Youth Science Canada
Certificate

Nattan Telmer [13] – Vancouver Island BC
Thermo-electric generators to charge electronic devices in the wilderness

Challenge Award - Information

Senior

Sponsor: Youth Science Canada
Certificate

Sascha Bodak [17] – Thames Valley ON
Generating Musical Accompaniment Using Machine Learning

Challenge Award - Information

Intermediate

Sponsor: Youth Science Canada
Certificate

Kelvin Zhang [16] – Greater Vancouver BC
Using Genetic Algorithms to Create Safer Self-Driving Cars

Challenge Award - Information

Junior

Sponsor: Youth Science Canada
Certificate

Brendon Matusch [12] – Sudbury ON
Oscar Sorting: Sorting the Waste Stream

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Challenge Award - Health

Senior

Sponsor: AstraZeneca Canada
Certificate

Katherine Teeter [17] – Bluewater ON
Synthetic Limpet Teeth for Improved Joint Performance

Challenge Award - Health

Intermediate

Sponsor: AstraZeneca Canada
Certificate

Kayley Ting [15] – York ON
Analysis of Electrodermal Activity to Quantify Stress Levels in Autism

Challenge Award - Health

Junior

Sponsor: AstraZeneca Canada
Certificate

Adam Martinez [14] – Waterloo-Wellington ON
The Effects of Nanosilver on the Ionic Silver Resistant Plasmid (pMG101)

Challenge Award - Environment

Senior

Sponsor: Youth Science Canada
Certificate

Meaghan MacKenzie [16] – South Fraser BC
Myriophyllum spicatum: A Threat To Habitat Biodiversity—An Invasive Species PI

Challenge Award - Environment

Intermediate

Sponsor: Youth Science Canada
Certificate

Isabella O'Brien [14] – Bay Area ON
Aquatic Osteoporosis: Remediating the emerging problem of lake calcium decline

Challenge Award - Environment

Junior

Sponsor: Youth Science Canada
Certificate

Sophia Cottrill [13] – Bluewater ON
Evolution or Extinction? Time Will Tell for the King of the Arctic

Challenge Award - Energy

Senior

Sponsor: Youth Science Canada
Certificate

Joy Shah [16], **Parth Vachharajani** [16] – Lambton County ON
The World's First Biological Power Plant

Challenge Award - Energy

Intermediate

Sponsor: Youth Science Canada
Certificate

Olivia Li [16] – Greater Vancouver BC
Creating Electrotrophs to Find Changes that Impact Extracellular Electron Uptake

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Challenge Award - Energy

Junior

Sponsor: Youth Science Canada
Certificate

Aaliyah Mahboubi [13] – Pacific Northwest BC
Microbial-Film Power Generation

Challenge Award - Discovery

Senior

Sponsor: Youth Science Canada
Certificate

Owen Robison [18] – Waterloo-Wellington ON
Detection of DNA Integration in Tardigrades after Anhydrobiosis

Challenge Award - Discovery

Intermediate

Sponsor: Youth Science Canada
Certificate

William Gadoury [15] – Mauricie, Centre-du-Québec QC
Découverte depuis l'espace

Challenge Award - Discovery

Junior

Sponsor: Youth Science Canada
Certificate

Sophie Hoyer Pacholek [12] – Calgary Youth AB
The Genius Genus: Aspen Adaptations

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 5-28, 2016. Total value \$9,000.

Devanshi Shukla [18] – Waterloo-Wellington ON
A Biosensor for the Detection of Microbial Contamination

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.

Anmol Tukrel [16] – York ON
iDentifi: Using Computer Vision to Help Visually Impaired Individuals

Statistical Society of Canada Award

Senior

Sponsor: Statistical Society of Canada
\$1000 cash & certificate

Isaac McAuley [17] – Saskatchewan Chinook SK
A "Net" Profit

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Statistical Society of Canada and Biostatistics Section Award

Intermediate

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

Thomas Imbeault-Nepton [15] – Saguenay-Lac Saint-Jean QC

Éclaire ton attention!

The Society of Toxicology Award

Senior

Sponsor: The Society of Toxicology
\$1000 cash & certificate

Emma-Lee Rhyno [16] – Chignecto West NS

Wiggling Towards A Pollution Solution

The Society of Toxicology Award

Intermediate

Sponsor: The Society of Toxicology
\$750 cash & certificate

Crystal Radinski [15] – Calgary Youth AB

Aiding Biodegradation by Limiting Carbon

The Society of Toxicology Award

Junior

Sponsor: The Society of Toxicology
\$500 cash & certificate

Emily Isabelle Rafuse [13], **Julia Marie Sampson** [14] – Halifax NS

"E-cigarettes: A Risk Factor for ALS?"

S.M. Blair Family Foundation Award

Senior

Sponsor: S.M. Blair Family Foundation
\$1000 cash & certificate

Lucas Penny [17] – Niagara ON

Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer

S.M. Blair Family Foundation Award

Intermediate

Sponsor: S.M. Blair Family Foundation
\$750 cash & certificate

Victoria Allen [15], **Sarah Veilleux** [16] – Mauricie, Centre-du-Québec QC

Vous en saliverez!

S.M. Blair Family Foundation Award

Junior

Sponsor: S.M. Blair Family Foundation
\$500 cash & certificate

Imogen Lawford-Wickham [12] – Frontenac, Lennox & Addington ON

T1D Mouthguard

Renewable Energy Award

Senior

Sponsor: Ontario Power Generation
\$1000 cash & certificate

Ariane Tremblay [17], **Emmy Tremblay** [15] – Saguenay-Lac Saint-Jean QC

La puissance des eaux grises

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Renewable Energy Award

Intermediate

Sponsor: Ontario Power Generation
\$750 cash & certificate

Chloe Chen [16] – Greater Vancouver BC

Disproving and Rederiving Betz's Law Through Theoretical and Experimental Method

Renewable Energy Award

Junior

Sponsor: Ontario Power Generation
\$500 cash & certificate

Aiden Rebele [12] – Fraser Valley BC

Launched by Leftovers: Generating Biofuels from Garbage!

Nutrients for Life Foundation Award

Junior

Sponsor: Nutrients for Life Foundation Canada
\$500 cash & certificate

Rémie Cherepak [13] – Yukon/Stikine YT

Would you Eat these Peas?

The Manning Innovation Achievement Award

Senior

Sponsor: Ernest C. Manning Awards Foundation

Eight projects will each receive a \$500 cash award. Four of these Manning Innovation Achievement Award winners will also be announced as winners of a \$4,000 Manning Young Canadian Innovation Award (to be presented in Halifax on October 20) and receive an additional \$3,000 towards their post-secondary education.

Natasha Grimard [18] – Vancouver Island BC

Entomonoodles: An Exploration Of Entomophagy's Applications To Refugee Nutriti

Ahmed Lone [16] – Calgary Youth AB

Novel Camera-Based WSN in Fire Detection

Lucas Penny [17] – Niagara ON

Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer

Aoife Pucchio [17] – Thames Valley ON

Styrofoam - A Problem We Need to (dis)-Solve

Amit Scheer [17] – Ottawa ON

ImmunoBEAM: A Novel Biomaterial Conjugate as a Therapeutic Vaccination Platform

Devanshi Shukla [18] – Waterloo-Wellington ON

A Biosensor for the Detection of Microbial Contamination

Katherine Teeter [17] – Bluewater ON

Synthetic Limpet Teeth for Improved Joint Performance

Himanshu Sharma [16], **Derek Yin** [17] – Manitoba Schools Science Symposium MB

E-Walker: Formulating a Faster and Safer Stroke Recovery with Digital Sensors

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



The Manning Innovation Achievement Award

and \$4000 Manning Young Canadian Innovation Award and also receive an additional \$3000 towards their

Sponsor: Ernest C. Manning Awards Foundation

Eight projects will each receive a \$500 cash award. Four of these Manning Innovation Achievement Award winners will also be announced as winners of a \$4,000 Manning Young Canadian Innovation Award (to be presented in Halifax on October 20) and receive an additional \$3,000 towards their post-secondary education.

Lucas Penny [17] – Niagara ON

Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer

Aoife Pucchio [17] – Thames Valley ON

Styrofoam - A Problem We Need to (dis)-Solve

Amit Scheer [17] – Ottawa ON

ImmunoBEAM: A Novel Biomaterial Conjugate as a Therapeutic Vaccination Platform

Devanshi Shukla [18] – Waterloo-Wellington ON

A Biosensor for the Detection of Microbial Contamination

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 2016 (ISSYP 2016) from July 14-27, 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.

Marianne Drolet-Sénéchal [17] – Estrie QC

La loterie quantique

4-H Canada Sustainable Agriculture Award

Junior

Sponsor: 4-H Canada

\$500 cash & certificate

Patrick Geertz [12] – Central Okanagan BC

The Effect of Dissolved Oxygen and pH on Wetland Aquatic Invertebrate Diversity

4-H Canada Food Security Award

Junior

Sponsor: 4-H Canada

\$500 cash & certificate

Ava Stokke [14] – Winnipeg Schools MB

Antibiotics Everywhere! Using Bacteria to Detect Antibiotic Residues in Meat

Excellence in Astronomy Award

Intermediate

Sponsor: Royal Astronomical Society of Canada

Telescope & certificate plus a one year membership to RASC

William Gadoury [15] – Mauricie, Centre-du-Québec QC

Découverte depuis l'espace

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Excellence in Astronomy Award

Junior

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

Eungyung Kim [13] – Central Interior British Columbia BC
Reconnaissance Sensory Space Glove Prototype

Engineering Innovation Award

Intermediate

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

Victoria Allen [15], **Sarah Veilleux** [16] – Mauricie, Centre-du-Québec QC
Vous en saliverez!

Carlson Wagonlit Award

Junior

Sponsor: Carlson Wagonlit Travel
\$500 cash & certificate

Zoe Harris [12] – Ottawa ON
Red Light Green Light Fuzzy In-Between Light

CAP Physics Prize

Senior

Sponsor: Canadian Association of Physicists
\$1000 cash & certificate.

Nitish Bhatt [17] – Eastern Newfoundland NL
CALM: A Computational Approach for Landslide Mitigation and Study

Canadian Stockholm Junior Water Prize

Senior

Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Xylem
One all expense paid trip to Stockholm, Sweden, August 26-31, 2016, for one student to represent Canada at the International Stockholm Junior Water Prize Competition. Up to three projects selected at the CWSF will be invited to submit an essay summary of their projects. One winner will then be chosen to represent Canada at the Stockholm Junior Water Prize Competition. The two runners-up will each receive a \$300 cash prize. www.sjwp.ca

Philip Kawalec [18] – Winnipeg Schools MB
Cavendish Clones: A Solution to Sustainable Water Filtering

Meaghan MacKenzie [16] – South Fraser BC
Myriophyllum spicatum: A Threat To Habitat Biodiversity—An Invasive Species PI

Caitlyn Pratt [17] – Eastern Newfoundland NL
Impact of an Oil Spill and Emergency Response on Thick-billed Murre Feathers

Canadian Society for Medical Laboratory Science Award

Intermediate

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

Zeel Patel [16] – Calgary Youth AB
CADSense: A Novel Biosensor Optimized For The Early Diagnosis Of Atherosclerosis

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Canadian Society for Clinical Chemists Award

Senior

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

Lucas Penny [17] – Niagara ON

Salivary microRNAs as a Novel Tool for Microfluidic Detection of Breast Cancer

Canadian Artificial Intelligence Association Award

Junior

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

Brent Charron [13] – Windsor ON

The Graphene Enhanced S.W.I.F.T. Unit

Canadian Acoustical Association Award

Senior

Sponsor: Canadian Acoustical Association
\$1000 cash & certificate plus subscription to the Canadian Acoustical Association's quarterly journal

Marvin Giang [17], **Kevin Zheng** [16] – Durham ON

Headphones: A Catalyst or Scapegoat in Adolescent Hearing Loss

Australian National Youth Science Forum Award

Intermediate

Sponsor: National Youth Science Forum Australia
The Australian delegation to the CWSF selects grade 10/secondary IV Canadian finalists to invite to the 12 day National Youth Science Forum (NYSF) at the Australian National University in Canberra in January 2017.

NYSF will award \$1,000 as part of the program fee and participants are expected to raise funds to cover their travel and additional registration costs. NOTE: you can choose to decline the invitation and keep the \$1,000 cash award.

Allison Cai [16] – Waterloo-Wellington ON

Influence of Habitat on Cellobiase Activity in Mushrooms

Jack Edward Mogus [15] – Bay Area ON

GRAPHENE REINFORCED GUAYULE RUBBER Conductive Hypoallergenic

The Actuarial Foundation of Canada Award

Senior

Sponsor: The Actuarial Foundation of Canada
\$1000 cash & certificate

Gerry Nour Chamaa [19] – Estrie QC

Une perspective nébuleuse

Ahmed Lone [16] – Calgary Youth AB

Novel Camera-Based WSN in Fire Detection

The Actuarial Foundation of Canada Award

Intermediate

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

Ishmum Ataur [16] – Greater Vancouver BC

Tumor-Specific TCR-pMHC Database

Award Recipients

Canada-Wide Science Festival 2016

Montréal, Québec



Kelvin Zhang [16] – Greater Vancouver BC
Using Genetic Algorithms to Create Safer Self-Driving Cars

The Actuarial Foundation of Canada Award

Junior

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

Dylan Beswick [12] – Northern British Columbia BC
Really Random?

Spencer Whitehead [13] – Bluewater ON
Less Mass Run Fast