

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### Best Project Award

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

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**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

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#### Platinum Award - Best Senior Project

Sponsor: Youth Science Canada  
Award

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**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

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#### Platinum Award - Best Intermediate Project

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

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**Rebecca Baron** [15] – Greater Vancouver BC  
*Root Microbiomics: The Next Big Thing?*

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#### Platinum Award - Best Junior Project

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

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**Marcus Deans** [13] – Windsor ON  
*NOGOS: A Novel Nano-Oligosaccharide Doped Graphene Sand Composite Water*

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#### University of New Brunswick Entrance Scholarship Gold Medallist - \$5000 Entrance Scholarship

Sponsor: University of New Brunswick

A UNB entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A UNB entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist. The recipients must be beginning a UNB undergraduate degree program full-time in the Fall 2015 or Fall 2016.

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**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

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**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

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**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

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**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

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**Nathan Kuehne** [17] – Vancouver Island BC  
*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

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**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

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**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

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**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

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**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

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**Austin Wang** [17] – Greater Vancouver BC

*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

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#### University of New Brunswick Entrance Scholarship

##### Silver Medallist - \$2500 Entrance Scholarship

Sponsor: University of New Brunswick

A UNB entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A UNB entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist. The recipients must be beginning a UNB undergraduate degree program full-time in the Fall 2015 or Fall 2016.

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**Ariana Auyeung** [16] – Greater Vancouver BC

*The Implementation of Nanoparticles to Eliminate Aspergillus Fungi*

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**Noah Bergmann** [18] – Cariboo Mainline BC

*The Modex: Real Time Musical Analysis*

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**Nitish Bhatt** [16] – Eastern Newfoundland NL

*COMPEL: A Novel Comprehensive Physical Environment Influenced Landslide Model*

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**Katie Brent** [16] – Bay Area ON

*EMMA: ElectroMyographically Manipulated Arm - The Future of Prosthetics*

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**Olivier Cloutier** [18] – Est du Québec QC

*Chia : une cure précolombienne*

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**Kiri Daust** [17] – Pacific Northwest BC

*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*

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**Dennis Drownik** [16] – Winnipeg Schools MB

*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*

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**Cengiz Eller** [16] – Bluewater ON

*Invest With Hal*

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**Aaron Gomes** [18] – Bay Area ON

*Microwave Assisted Extraction of Polyphenols from Cocoa Powder*

---

**Élizabeth Guévin Duchesne** [19] – Est du Québec QC

*Attention à la baisse de pH !*

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**Deeksha Kundapur** [17] – Saskatoon SK

*Anticancer Therapy: Targeting MAD1 Overexpression with SGOL1 and PP2A*

---

**Michelle Li** [16] – York ON

*Regulation of Adipokines and Fat Growth by Master-switch Protein Kinase*

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**Aisha Parven** [16] – Toronto ON

*Combining Gold Nanoparticles with Indium and Panitumumab to Inhibit Cancer*

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**Nicholas Paun** [17] – West Kootenay & Boundary BC

*Chemlogic: A Logic Programming Chemistry System (2ed.)*

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**Elizabeth Suen** [16] – Greater Vancouver BC

*Isolating Genes for Gastric Carcinoma Treatment via Expression Meta-Analysis*

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**Katherine Teeter** [16] – Bluewater ON

*Extracorporeal Sonic Wave Therapy for Inoperable Tumours*

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**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

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**Megan Thomson** [17] – Bluewater ON

*Concentrating on Neonicotinoids*

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### Fredericton, New Brunswick



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**Twesh Upadhyaya** [18] – Simcoe County ON  
*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

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**George Utsin** [17] – Waterloo-Wellington ON  
*ThermIS: Automation of Viral System Detection*

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#### 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.

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**Om Agarwal** [12] – South Fraser BC  
*Stop Being Bullied*

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**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

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**Rebecca Baron** [15] – Greater Vancouver BC  
*Root Microbiomics: The Next Big Thing?*

---

**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

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**Catherine Beaudin** [14] – Ottawa ON  
*Reversing Atherosclerosis: A Paradigm shift in cardiovascular disease treatment*

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**Milen Belanger** [13] – Peel ON  
*Testing the effect of colloidal silver on antibiotics fighting E.Coli*

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**Rachel Brouwer** [13] – Halifax NS  
*Can We Improve the Quality of Water in Developing and Third World Countries?*

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**Brent Charron** [12] – Windsor ON  
*The S.W.I.F.T. Unit - Putting Heat and Electricity Where You Need It!*

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**Marcus Deans** [13] – Windsor ON  
*NOGOS: A Novel Nano-Oligosaccharide Doped Graphene Sand Composite Water*

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**Marianne Drolet-Sénéchal** [16] – Estrie QC  
*Plaquettes : un trésor pour le X*

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**Maria Duynisveld** [14] – Chignecto East NS  
*Eggs-aminig the Connection Between Foraging Behavior and Egg Characteristics*

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**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

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**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

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**Ruchira Gupta** [14] – Peel ON  
*The Nose Knows Not*

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**Sunand Kannappan** [16] – Calgary Youth AB  
*Elucidating the Role of CDK5RAP2 in NSCLC*

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**Nathan Kuehne** [17] – Vancouver Island BC  
*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

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**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

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**Meaghan MacKenzie** [15] – South Fraser BC  
*Fugitive Coal Dust Solutions in South Delta*

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**Caroline Mahut** [16] – Bay Area ON  
*Taking the Flyway*

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**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

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**Grant Mansiere** [15] – Central Okanagan BC  
*Being Fair Isn't Fair: circadian resetting by electronic light and eye colour*

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**Tasnia Nabil** [14] – Windsor ON  
*A Novel Mathematical Model for Ferromagnetic NanoTherapy to Cure Cancer*

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**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

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**Waleed Sawan** [13] – Thames Valley ON  
*Every Drop Counts - An Intelligent Farming System*

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**Dina Shehata** [15] – Eastern Newfoundland NL  
*A Low Cost Gel Block Model for Ultrasound Guided Training*

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**Melody Song** [14] – Saskatoon SK  
*Food for Thought: Preventive Management of Neurodegenerative Disorders*

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**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

---

**Kyle Teeter** [13] – Bluewater ON  
*Earthquakes: Improving Building Resiliency*

---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

---

**Anastasia Young** [13] – Ottawa ON  
*Beam Me Up Scotty (Robotic Teleportation Through Skype)*

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#### 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.

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**William Aidan Aird** [15] – York ON  
*The Water Wheel Cart Plus - Improving the Quality of Life in Developing Nations*

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**Ahmad Ali** [13] – Windsor ON  
*Waste to Watts II*

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**Ariana Auyeung** [16] – Greater Vancouver BC  
*The Implementation of Nanoparticles to Eliminate Aspergillus Fungi*

---

**Noah Bergmann** [18] – Cariboo Mainline BC  
*The Modex: Real Time Musical Analysis*

---

**Nitish Bhatt** [16] – Eastern Newfoundland NL  
*COMPEL: A Novel Comprehensive Physical Environment Influenced Landslide Model*

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**Katie Brent** [16] – Bay Area ON  
*EMMA: ElectroMyographically Manipulated Arm - The Future of Prosthetics*

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- Chloe Chen** [15] – Greater Vancouver BC  
*Smart Speed & Smart Intersection*
- 
- Olivier Cloutier** [18] – Est du Québec QC  
*Chia : une cure précolombienne*
- 
- Maude Couturier** [12] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*Les effets nocifs du cannabis*
- 
- Kiri Daust** [17] – Pacific Northwest BC  
*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*
- 
- Janet Dawson** [13] – Vancouver Island BC  
*Goodnight Sun!*
- 
- Joshua Delacruz** [14] – Peace Country AB  
*Prevent Cancers - "Zeolite-X" Filtering Out Radiation from Radioactive Tobacco*
- 
- Dennis Drewnik** [16] – Winnipeg Schools MB  
*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*
- 
- Cengiz Eller** [16] – Bluewater ON  
*Invest With Hal*
- 
- Faris Fizal** [14] – Calgary Youth AB  
*Effect of Hypoxia on Learning and Memory*
- 
- Kennedy Frittenburg** [13] – South Shore NS  
*Battling Biofouling: The Development of an Environmentally Sensitive Coating*
- 
- Audrey Golsteyn** [13] – Lethbridge AB  
*Le danger de la recongélation*
- 
- Aaron Gomes** [18] – Bay Area ON  
*Microwave Assisted Extraction of Polyphenols from Cocoa Powder*
- 
- Emily Gubski** [15] – Calgary Youth AB  
*The Importance of DDXXXE Motif for the HIV-1 Nef Protein in the GI tract*
- 
- Élizabeth Guévin Duchesne** [19] – Est du Québec QC  
*Attention à la baisse de pH !*
- 
- Clayton Harder** [14] – Northern Vancouver Island BC  
*Tidal Power Pump*
- 
- James Ho** [14] – South Fraser BC  
*Exoskeleton Arm Utilizing Flexible Air Muscles*
- 
- David Tobias Holcer** [14] – Greater Vancouver BC  
*Benford's Law*
- 
- Claire Hunter** [13] – Bay Area ON  
*Silent Music: A Novel Approach to Anxiety Reduction Using Tactile Sound*
- 
- Myers Illes** [12] – Central Interior British Columbia BC  
*Off Your Dock, Into Your Garden*
- 
- Tahmid Khan** [14] – Calgary Youth AB  
*Adaptive Wheel*
- 
- Sajeev Kohli** [13] – Waterloo-Wellington ON  
*R.E.D.M.A. - Residential Emergency Detecting Multifunctional Apparatus*

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- Deeksha Kundapur** [17] – Saskatoon SK  
*Anticancer Therapy: Targeting MAD1 Overexpression with SGOL1 and PP2A*
- 
- Marie-Pier Lacroix** [13], **Sophie Lacroix** [13] – Montréal CLS QC  
*Migration clima-tique*
- 
- Michelle Li** [16] – York ON  
*Regulation of Adipokines and Fat Growth by Master-switch Protein Kinase*
- 
- Luke Macmillan** [16] – Chignecto West NS  
*Feet or Superfeet?*
- 
- Margaret Hopkins** [15], **Nathan McNally** [16] – Annapolis Valley NS  
*Tidal Potential: Harnessing the Power of the Tides*
- 
- Katie Myatt** [15] – Bluewater ON  
*Development of Latent 2-D Footwear Impressions: An Improved Methodology*
- 
- Daniel O'Reilly** [15] – Central Interior British Columbia BC  
*Remedies Recovered From Roof Top Resources*
- 
- Abby Parsons** [14] – Avon Maitland-Huron Perth ON  
*Germs Everywhere - An Innovative Germ Awareness and Hand Washing Program*
- 
- Aisha Parven** [16] – Toronto ON  
*Combining Gold Nanoparticles with Indium and Panitumumab to Inhibit Cancer*
- 
- Muhammad Patel** [13], **Zane Wiebe** [13] – Saskatoon SK  
*Avocado Milk Emulsion*
- 
- Nicholas Paun** [17] – West Kootenay & Boundary BC  
*Chemlogic: A Logic Programming Chemistry System (2ed.)*
- 
- Willa Pepin** [15] – Greater Vancouver BC  
*Kinesiology Plus - A Biofeedback Device for Retraining Harmful Muscle Memories*
- 
- Victoria Platzer** [15] – Northern British Columbia BC  
*Beyond the Waste*
- 
- Abhinav Boyed** [15], **Karthik Prasad** [14] – Peel ON  
*Thermovoltaics: Powering the Future*
- 
- Saisrihari Prithiviraj** [13] – Chignecto West NS  
*Savior from the Sea!!!*
- 
- Rishika Geda** [16], **Kimia Raahemifar** [16] – Waterloo-Wellington ON  
*Binaural Beats: Bio-feedback Via Brainwave Entrainment*
- 
- Madison Santos** [15] – Toronto ON  
*Stretch or Snap: The Effects of PH on Hair Durability*
- 
- Elizabeth Schulz** [16] – Central Interior British Columbia BC  
*Investigating Correlations and Variations of *Lymnae stagnalis**
- 
- Charley Smith** [15] – Central Okanagan BC  
*Driving our Cars on Wood and Water*
- 
- Ted Stuart** [16] – Simcoe County ON  
*Biochar Filtration of Phosphorous*
- 
- Elizabeth Suen** [16] – Greater Vancouver BC  
*Isolating Genes for Gastric Carcinoma Treatment via Expression Meta-Analysis*

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**Katherine Teeter** [16] – Bluewater ON

*Extracorporeal Sonic Wave Therapy for Inoperable Tumours*

---

**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

**Holly Tetzlaff** [15] – Quinte ON

*Small But Mighty-The Environmental Impact of Microbeads*

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**Megan Thomson** [17] – Bluewater ON

*Concentrating on Neonicotinoids*

---

**Twesh Upadhyaya** [18] – Simcoe County ON

*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

---

**George Utsin** [17] – Waterloo-Wellington ON

*ThermIS: Automation of Viral System Detection*

---

**Hannah Vanderzwet** [14] – Thames Valley ON

*The Magic of Mustard*

---

**Meg Warhurst** [14] – Cariboo Mainline BC

*Wildfires - Protect Your Home!*

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**Piper Warhurst** [12] – Cariboo Mainline BC

*Youth, Vitamin D and Activity - What's The Connection?*

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**Michael Wolfe** [12] – Bay Area ON

*Wi-Tricity*

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**David Wu** [13] – Thames Valley ON

*Disappearing Monarchs: 7 Years of Study, One Shocking Fact*

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**Kelly Yang** [15] – Northwestern Ontario ON

*Identification of A Novel Anti-adipogenic Compound from Dandelion*

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#### Western University Scholarship

##### **Bronze Medallist - \$1000 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.

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**Qasim Ali** [18], **Brendan Samek** [18] – Edmonton AB

*Photon Filtration: A Novel Printer for Ink-Free Reusable Paper*

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**Elias Andersen** [15] – Simcoe County ON

*Countertop Cold Storage: An Innovation Using Peltier Chip Technology*

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**Samna Aziz** [17] – Bay Area ON

*Investigating Ceramic Calcium Phosphate Cements as Bone Replacing Material*

---

**Justin Barrette** [15] – Montréal CLS QC

*La deuxième vie du pétrole*

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**Elizabeth Beaulieu** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB

*La Vénus Lacque*

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**Christopher Adolphe** [13], **Josh Benattar** [13] – Toronto ON

*The ABC's of Mouthwash*

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**Dayna Bennett** [16] – Rideau-St. Lawrence ON

*At a Snail's Pace*

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- Sascha Bodak** [16] – Thames Valley ON  
*Predictive Perceptron Networks: Temperature Forecasting Using Machine Learning*
- 
- William Campbell** [12] – Kivalliq NU  
*What's the Drift? Where's the Drift?*
- 
- Rachel Cey** [16] – Northwest Saskatchewan SK  
*Mechanics of the Throwing Motion*
- 
- Jay Chen** [15] – Northwestern Ontario ON  
*Lignin Adsorption: An Innovative Approach to Water Purification*
- 
- Ben Chisholm** [14] – Fraser Valley BC  
*One Man's Waste is another Man's Power*
- 
- Nick Cusack** [14] – Fundy NB  
*Need A Hand?*
- 
- Abhigyan Dabla** [13] – South Fraser BC  
*Electromagnetic Radiation*
- 
- Noah Davidson** [12] – St. James-Assiniboia MB  
*Curling Rocks!*
- 
- James Davy** [14] – Halifax NS  
*The Affect of Fatigue on a Soccer Player's Ability to Perform Skills*
- 
- Tyler Denes** [14] – Simcoe County ON  
*Power Your Car From Your Dinner Table*
- 
- Sarah DeWeerd** [16] – Thames Valley ON  
*The Effect of Playing a Musical Instrument on One's Memory Capacity*
- 
- Yoyo Ding** [16] – Greater Vancouver BC  
*Inmeshtigation: comparison of water vapour collection of 3 mesh sizes*
- 
- Manuel Dionne** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*La lâcheté triomphe*
- 
- Nicolaas Doyle** [14] – Niagara ON  
*Experiments in Collective Robotics*
- 
- Emma Dubroca** [15] – Montreal QC  
*Phagocytosis in Burn Patients*
- 
- Erika Dunn** [14], **Amy MacFarlane** [13] – East Parry Sound ON  
*Chill Out!*
- 
- Keegan Dursun** [12] – Edmonton AB  
*Watercress Cleans Toxic Chemicals From Waterways*
- 
- John Burns Duynisveld** [16] – Chignecto East NS  
*Are There Differences in How Lettuce Genotypes Respond to Light Sources?*
- 
- Lydia Elbatarny** [13] – Frontenac, Lennox & Addington ON  
*Bubbling with Energy*
- 
- Nika Elmi** [18] – York ON  
*The Mystery of Bipolar Disorder*
- 
- Fiona Ewart** [13] – Halifax NS  
*Early immunological experience and the development of allergies*



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<b>Matthew Falkner</b> [18] – Rideau-St. Lawrence ON <i>Engaging High School Students With Social Engineering</i>
<b>Evan Farrell</b> [17], <b>Max Kevin Kit Musing</b> [18] – Toronto ON <i>Simulating Brains in Artificial Organisms</i>
<b>Emma Fedusiak</b> [15] – Parkland SK <i>Is Vaccinating an Udder Mistake?</i>
<b>Marie Floryan</b> [17] – Thames Valley ON <i>Development of Assistive Technology for Recovery from ACL Injury</i>
<b>Zane Frantzen</b> [14] – Simcoe County ON <i>Perfect Toast: Using Microcontroller Technology</i>
<b>Elena Frie</b> [14] – Greater Vancouver BC <i>Ancient Solutions</i>
<b>Camély Gendron</b> [15], <b>Mélody Gendron</b> [16] – Outaouais QC <i>L'asphalte, ça craque !</i>
<b>Nisha Gill</b> [14] – Frontenac, Lennox & Addington ON <i>Teen Perceptions and Personas</i>
<b>Alyssa Gran</b> [14] – Sudbury ON <i>Radon Mitigation, Absolute and Bronchial Dose: A Sixteen Month Experiment</i>
<b>Brandon Green</b> [12] – Central Alberta AB <i>X-treme Body Fuel</i>
<b>Nicole Green</b> [15] – Central Alberta AB <i>Pressure Cooker</i>
<b>Lénárd Grossmann</b> [11] – Edmonton AB <i>Endangered Alberta-Climate Change at OUR Doorstep</i>
<b>Linda Guo</b> [16] – Wood Buffalo AB <i>Ready, Set, Go!</i>
<b>Anika Gupta</b> [13] – Bay Area ON <i>The Effects of Pesticides and Neuroprotective Agents on Dopaminergic Neurons</i>
<b>Aiden Haddad</b> [13] – Quinte ON <i>Pendulum Transportation System</i>
<b>Gerone Dimalanta</b> [13], <b>Jazlyn Harper</b> [13] – Regina SK <i>Ne clignez pas!</i>
<b>Kileigh Harrington</b> [12] – Simcoe County ON <i>Saving Nature's Sunblock</i>
<b>William Harvey</b> [15] – Saguenay-Lac Saint-Jean QC <i>Message codé : méninge-Hits ?</i>
<b>Kaylee Hayko</b> [18], <b>Kristi Hayko</b> [15] – Regina SK <i>A Novel Approach to Bioenergy Production Using Primary Effluent and Coal</i>
<b>Kate He</b> [15] – Halifax NS <i>Can Parkinson's Disease Be Cured through Neurogenesis?</i>
<b>Stephan Ducharme</b> [14], <b>Jacob Hill</b> [13] – Avon Maitland-Huron Perth ON <i>I'm Lovin' It! Producing Biopolymers From Fast Food Waste</i>

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## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Raphael Hotter** [15] – Montreal QC  
*Ebola No More!*

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**YaWen Huang** [15] – Winnipeg Schools MB  
*The Effects of Stroke-Like Oxidative Stress on the Insulin Pathway*

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**Thomas Imbeault-Nepton** [14] – Saguenay-Lac Saint-Jean QC  
*Quand le cerveau tient « tête »!*

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**Kaamraan Islam** [12] – Frontenac, Lennox & Addington ON  
*Green Oil: Improving the Extraction Efficiency of Bitumen from the Oil Sands*

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**SeonHo Jang** [17] – Thames Valley ON  
*Correlation between tissue changes & back pain in a mouse model of intervertebra*

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**Daniel Kanis** [17] – Fraser Valley BC  
*Hypertos: A launch into the web based era.*

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**Connor Kindred** [14] – Prairie Valley SK  
*Tsunami Protection Barriers*

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**Hanneliese Laskowski** [13] – Pacific Northwest BC  
*Thinking about thinking: instinctive versus non-instinctive methods in archery*

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**James Lees** [17] – Chignecto East NS  
*Close Encounters of the Fourth Kind*

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**Daniel Levin** [13] – Frontenac, Lennox & Addington ON  
*SMART Car Seat*

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**Olivia Li** [15] – Greater Vancouver BC  
*Lead it Go: Purifying Lead Contaminated Water with Common Seashells*

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**Justin Lin** [15] – Manitoba Schools Science Symposium MB  
*Effects of Statins on Scleraxis-Mediated Collagen Expression in Fibroblasts*

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**James Lovett** [13] – Simcoe County ON  
*Super Sign*

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**Benjamin Ma** [12] – Peel ON  
*Go Bananas!!!*

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**Siobhan MacDonald** [17] – Strait NS  
*Micro Hydro - Do a Lot, With a little*

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**Jacqueline Mansiere** [13] – Central Okanagan BC  
*An Eye For Colour: Digital Analysis of the Colour Palette in Artist's Paintings*

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**Maitry Mistry** [15] – Manitoba Schools Science Symposium MB  
*Influence of animal and plant hormone to increase Algae biomass production*

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**Emily Mittertreiner** [15] – Greater Vancouver BC  
*The Every-Other-Day Diet*

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**Kathryn Moeck** [17] – Peterborough ON  
*Pifithrin and Phenylalanine as a Novel Cancer Treatment*

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**Jack Mogus** [14] – Bay Area ON  
*A Novel Investigation Using Engineered Technologies to Reduce Tank Car Incidents*

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**Blanche Mongeon** [16] – Montréal CLS QC  
*Gourmande scientifique*

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**Meera Moorthy** [13] – Quinte ON

*Finding A Natural Fertilizer*

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**Emily Moseley** [12] – Central Okanagan BC

*Watt a Waste: Boundary Layer Effect + Axial Flux Generator = Clean Energy*

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**Jayson Mtanos** [17] – Rive-Nord QC

*Le moteur FuzioTeK*

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**Aiman Naeem** [16] – Wood Buffalo AB

*Investigating Reclamation Potential of Native Plants*

---

**Mia Pandolfo** [17] – Sudbury ON

*Paediatric Chronic Pain Application*

---

**Priyank Patel** [16] – Lambton County ON

*A Novel Approach to Energy Generation & Storage: Axial Flux with Supercapacitors*

---

**Zeel Patel** [15] – Wood Buffalo AB

*Computer-Aided Discovery Of Novel Invadopodia Inhibitors To Prevent Metastasis*

---

**Dylan Peil** [14] – West Kootenay & Boundary BC

*Solar Concentrator Tracker*

---

**Lucas Penny** [16] – Niagara ON

*Rhomboid Protease 4 mRNA Expression In A Mouse Model of Alzheimer's Disease*

---

**Holly Philbrick** [18] – Niagara ON

*Clarifying the Function of Vitamin E*

---

**Jesse Plamondon** [15] – Northern British Columbia BC

*Breathable Rock: A Novel Approach to Isolating Oxygen in CaSO<sub>4</sub> H<sub>2</sub>O for on Mars*

---

**Bethany Helaine Poltl - Gibb** [11] – Niagara ON

*Jitter Bug: How HFCS Affects the Longevity, Fertility & Behaviour of Drosophila*

---

**John Poole** [13] – Canadian Rockies AB

*Magic Mushrooms*

---

**Abdullah Rashid** [12] – Manitoba Schools Science Symposium MB

*Effect of Vitamin C on Macrophage Function*

---

**Chloe Reitlo** [12] – Northern Manitoba MB

*Can you Drink Wastewater?*

---

**Dylan Rowe** [15] – Peterborough ON

*Do Verulam Ordovician Fossils vary due to the composition and level of Strata?*

---

**Jasmeen Mander** [14], **Avi Sahota** [14] – Peel ON

*Is PET the right BET?*

---

**Holly Salem** [12] – Northwestern Ontario ON

*The Baby Life Saver (BLS)*

---

**Matthew Sampson** [18] – Strait NS

*The Scholar's 3-D Printer*

---

**Caitlyn Sandluck** [18] – Chignecto East NS

*Can We Prepare? Altering Innate Behaviour & Preparing for Invasive Fish Species*

---

**Austin Sawyer** [18] – Vancouver Island BC

*Low Cost Solutions to Improve Tie Longevity*

---

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



- 
- Alex Schneider** [13] – Quinte ON  
*“The Strength of Dogs’ Olfactory System Among Different Breeds”.*
- 
- Ellena Schuffert** [16] – Pacific Northwest BC  
*Who knew being “dense” could be better! Mysteries of what the brain hears Part 2*
- 
- Marin Schultz** [14] – Lethbridge AB  
*Advanced Breath Interface and Control Systems For Robotics*
- 
- Hadia Selouani** [15] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*SmartOc : un outil pour une cardiocographie intelligente*
- 
- Dhrumil Shah** [15] – Wood Buffalo AB  
*Multi-Turbine VentusCapio*
- 
- Anirudh Shahi** [15] – Northwestern Ontario ON  
*Vegetable Oils and Amines: A Novel Approach for Capturing and Utilizing CO2*
- 
- Carl Shen** [17], **Gary Shen** [17] – Thames Valley ON  
*Machine Learning Based Smart Bed Monitoring System*
- 
- Devanshi Shukla** [17] – Waterloo-Wellington ON  
*Evaluating antimicrobial plant-derived compounds*
- 
- Aiden Simard** [14] – Western Manitoba MB  
*La suite de la suite*
- 
- Aryan Singh** [13] – Ottawa ON  
*Inhibiting Pathogenic Infections: A Polyphenol and Carotenoid Based Approach*
- 
- Katherine Sirois** [17] – Montérégie QC  
*Neuro-Chapeau= Éveil au volant*
- 
- Kent Smith** [17] – Chignecto West NS  
*A Possible Solution for Ionic Pollution*
- 
- Sophia Spiropoulos** [13] – Calgary Youth AB  
*Organic: Is It Better?*
- 
- Seamus Stears** [14] – Cape Breton NS  
*Take Your Best Shot*
- 
- Sonia Stewart** [18] – South Fraser BC  
*Monitoring Medication Adherence-Part 2*
- 
- Sindella Aiysha Sugden Lingard** [18] – East Kootenay BC  
*Brain Nurture*
- 
- Kariann Szemethy** [16] – Southeast Alberta AB  
*Development of a low voltage UV-LED device for water disinfection*
- 
- Roselyn Thom** [15] – Greater Vancouver BC  
*OUCH That Vaccination Hurt! Convert the Hurt With Single-Sensory Distraction.*
- 
- Patrick Trottier** [16] – Sudbury ON  
*Naviguer sans s’aveugler*
- 
- Quin Sykora** [16], **Anna Verkhovskaya** [16] – Calgary Youth AB  
*Balanced Homodyne Detector Laser Microphone*
- 
- Joy Wang** [16] – Greater Vancouver BC  
*ATP Starvation: Targeting Cancer Glucose Metabolism Using Metformin And MCT4*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**Margaret Williams** [15] – Bay Area ON  
*Filtering Estrogenic Substances from Liquid Waste at the Household Level*

---

**Caleb Winder** [15] – Lambton County ON  
*Fusion + Fission = Future*

---

**Jordan Winter** [15] – Algoma Rotary ON  
*To Bee or Not To Bee: Overwintering Techniques and Losses of Honeybees in*

---

**Jenny Wu** [16] – Calgary Youth AB  
*The Attraction of Distractions*

---

**Alyssa Young** [16] – Eastern Newfoundland NL  
*Childhood Cancer Chemotherapy: The promise of non-genotoxic options*

---

**Kenz Zaghib** [16] – Montérégie QC  
*Transformation extrême !*

---

**Lilian Zhang** [14] – Calgary Youth AB  
*What Garlic Components Can Inhibit Superbugs?*

---

**Nicole Zhao** [16] – York ON  
*Identification of Carbamazepine Degraders*

---

#### University of Ottawa Entrance Scholarship

##### Senior Gold Medallist - \$4,000 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.

---

**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

---

**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

---

**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

---

**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

---

**Nathan Kuehne** [17] – Vancouver Island BC  
*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

---

**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

---

**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

---

**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

---

**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

#### University of Ottawa Entrance Scholarship

##### Senior Silver Medallist - \$2000 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.

---

**Ariana Auyeung** [16] – Greater Vancouver BC

*The Implementation of Nanoparticles to Eliminate Aspergillus Fungi*

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**Noah Bergmann** [18] – Cariboo Mainline BC

*The Modex: Real Time Musical Analysis*

---

**Nitish Bhatt** [16] – Eastern Newfoundland NL

*COMPEL: A Novel Comprehensive Physical Environment Influenced Landslide Model*

---

**Katie Brent** [16] – Bay Area ON

*EMMA: ElectroMyographically Manipulated Arm - The Future of Prosthetics*

---

**Olivier Cloutier** [18] – Est du Québec QC

*Chia : une cure précolombienne*

---

**Kiri Daust** [17] – Pacific Northwest BC

*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*

---

**Dennis Drownik** [16] – Winnipeg Schools MB

*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*

---

**Cengiz Eller** [16] – Bluewater ON

*Invest With Hal*

---

**Aaron Gomes** [18] – Bay Area ON

*Microwave Assisted Extraction of Polyphenols from Cocoa Powder*

---

**Élizabeth Guévin Duchesne** [19] – Est du Québec QC

*Attention à la baisse de pH !*

---

**Deeksha Kundapur** [17] – Saskatoon SK

*Anticancer Therapy: Targeting MAD1 Overexpression with SGOL1 and PP2A*

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**Michelle Li** [16] – York ON

*Regulation of Adipokines and Fat Growth by Master-switch Protein Kinase*

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**Aisha Parven** [16] – Toronto ON

*Combining Gold Nanoparticles with Indium and Panitumumab to Inhibit Cancer*

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**Nicholas Paun** [17] – West Kootenay & Boundary BC

*Chemlogic: A Logic Programming Chemistry System (2ed.)*

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**Elizabeth Suen** [16] – Greater Vancouver BC

*Isolating Genes for Gastric Carcinoma Treatment via Expression Meta-Analysis*

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**Katherine Teeter** [16] – Bluewater ON

*Extracorporeal Sonic Wave Therapy for Inoperable Tumours*

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**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

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**Megan Thomson** [17] – Bluewater ON

*Concentrating on Neonicotinoids*

---

**Twesh Upadhyaya** [18] – Simcoe County ON

*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**George Utsin** [17] – Waterloo-Wellington ON  
*ThermIS: Automation of Viral System Detection*

---

#### 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.

---

**Qasim Ali** [18], **Brendan Samek** [18] – Edmonton AB  
*Photon Filtration: A Novel Printer for Ink-Free Reusable Paper*

---

**Samna Aziz** [17] – Bay Area ON  
*Investigating Ceramic Calcium Phosphate Cements as Bone Replacing Material*

---

**Elizabeth Beaulieu** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*La Vénus Lacque*

---

**Dayna Bennett** [16] – Rideau-St. Lawrence ON  
*At a Snail's Pace*

---

**Sascha Bodak** [16] – Thames Valley ON  
*Predictive Perceptron Networks: Temperature Forecasting Using Machine Learning*

---

**Yoyo Ding** [16] – Greater Vancouver BC  
*Inmeshtigation: comparison of water vapour collection of 3 mesh sizes*

---

**Manuel Dionne** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*La lâcheté triomphe*

---

**Nika Elmi** [18] – York ON  
*The Mystery of Bipolar Disorder*

---

**Matthew Falkner** [18] – Rideau-St. Lawrence ON  
*Engaging High School Students With Social Engineering*

---

**Evan Farrell** [17], **Max Kevin Kit Musing** [18] – Toronto ON  
*Simulating Brains in Artificial Organisms*

---

**Marie Floryan** [17] – Thames Valley ON  
*Development of Assistive Technology for Recovery from ACL Injury*

---

**Camély Gendron** [15], **Mélody Gendron** [16] – Outaouais QC  
*L'asphalte, ça craque !*

---

**Linda Guo** [16] – Wood Buffalo AB  
*Ready, Set, Go!*

---

**Kaylee Hayko** [18], **Kristi Hayko** [15] – Regina SK  
*A Novel Approach to Bioenergy Production Using Primary Effluent and Coal*

---

**SeonHo Jang** [17] – Thames Valley ON  
*Correlation between tissue changes & back pain in a mouse model of intervertebra*

---

**Daniel Kanis** [17] – Fraser Valley BC  
*Hypertos: A launch into the web based era.*

---

**James Lees** [17] – Chignecto East NS  
*Close Encounters of the Fourth Kind*

---

**Siobhan MacDonald** [17] – Strait NS  
*Micro Hydro - Do a Lot, With a little*

---

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



- 
- Kathryn Moeck** [17] – Peterborough ON  
*Pifithrin and Phenylalanine as a Novel Cancer Treatment*
- 
- Blanche Mongeon** [16] – Montréal CLS QC  
*Gourmande scientifique*
- 
- Jayson Mtanos** [17] – Rive-Nord QC  
*Le moteur FuzioTeK*
- 
- Aiman Naeem** [16] – Wood Buffalo AB  
*Investigating Reclamation Potential of Native Plants*
- 
- Mia Pandolfo** [17] – Sudbury ON  
*Paediatric Chronic Pain Application*
- 
- Priyank Patel** [16] – Lambton County ON  
*A Novel Approach to Energy Generation & Storage: Axial Flux with Supercapacitors*
- 
- Holly Philbrick** [18] – Niagara ON  
*Clarifying the Function of Vitamin E*
- 
- Matthew Sampson** [18] – Strait NS  
*The Scholar's 3-D Printer*
- 
- Caitlyn Sandluck** [18] – Chignecto East NS  
*Can We Prepare? Altering Innate Behaviour & Preparing for Invasive Fish Species*
- 
- Austin Sawyer** [18] – Vancouver Island BC  
*Low Cost Solutions to Improve Tie Longevity*
- 
- Ellena Schuffert** [16] – Pacific Northwest BC  
*Who knew being "dense" could be better! Mysteries of what the brain hears Part 2*
- 
- Carl Shen** [17], **Gary Shen** [17] – Thames Valley ON  
*Machine Learning Based Smart Bed Monitoring System*
- 
- Devanshi Shukla** [17] – Waterloo-Wellington ON  
*Evaluating antimicrobial plant-derived compounds*
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- Katherine Sirois** [17] – Montérégie QC  
*Neuro-Chapeau= Éveil au volant*
- 
- Kent Smith** [17] – Chignecto West NS  
*A Possible Solution for Ionic Pollution*
- 
- Sonia Stewart** [18] – South Fraser BC  
*Monitoring Medication Adherence-Part 2*
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- Sindella Aiysha Sugden Lingard** [18] – East Kootenay BC  
*Brain Nurture*
- 
- Quin Sykora** [16], **Anna Verkhovskaya** [16] – Calgary Youth AB  
*Balanced Homodyne Detector Laser Microphone*
- 
- Joy Wang** [16] – Greater Vancouver BC  
*ATP Starvation: Targeting Cancer Glucose Metabolism Using Metformin And MCT4*
- 
- Jenny Wu** [16] – Calgary Youth AB  
*The Attraction of Distractions*
- 
- Alyssa Young** [16] – Eastern Newfoundland NL  
*Childhood Cancer Chemotherapy: The promise of non-genotoxic options*



# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**Nicole Zhao** [16] – York ON  
*Identification of Carbamazepine Degraders*

---

#### 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;

---

**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

---

**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

---

**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

---

**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

---

**Nathan Kuehne** [17] – Vancouver Island BC  
*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

---

**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

---

**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

---

**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

---

**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

---

#### 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.

---

**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

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**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

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# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

---

**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

---

**Nathan Kuehne** [17] – Vancouver Island BC  
*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

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**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

---

**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

---

**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

---

**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

---

#### 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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**Ariana Auyeung** [16] – Greater Vancouver BC  
*The Implementation of Nanoparticles to Eliminate Aspergillus Fungi*

---

**Noah Bergmann** [18] – Cariboo Mainline BC  
*The Modex: Real Time Musical Analysis*

---

**Nitish Bhatt** [16] – Eastern Newfoundland NL  
*COMPEL: A Novel Comprehensive Physical Environment Influenced Landslide Model*

---

**Katie Brent** [16] – Bay Area ON  
*EMMA: ElectroMyographically Manipulated Arm - The Future of Prosthetics*

---

**Olivier Cloutier** [18] – Est du Québec QC  
*Chia : une cure précolombienne*

---

**Kiri Daust** [17] – Pacific Northwest BC  
*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*

---

**Dennis Drewnik** [16] – Winnipeg Schools MB  
*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*

---

**Cengiz Eller** [16] – Bluewater ON  
*Invest With Hal*

---

**Aaron Gomes** [18] – Bay Area ON  
*Microwave Assisted Extraction of Polyphenols from Cocoa Powder*

---

**Élizabeth Guévin Duchesne** [19] – Est du Québec QC  
*Attention à la baisse de pH !*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**Deeksha Kundapur** [17] – Saskatoon SK  
*Anticancer Therapy: Targeting MAD1 Overexpression with SGOL1 and PP2A*

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**Michelle Li** [16] – York ON  
*Regulation of Adipokines and Fat Growth by Master-switch Protein Kinase*

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**Aisha Parven** [16] – Toronto ON  
*Combining Gold Nanoparticles with Indium and Panitumumab to Inhibit Cancer*

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**Nicholas Paun** [17] – West Kootenay & Boundary BC  
*Chemlogic: A Logic Programming Chemistry System (2ed.)*

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**Elizabeth Suen** [16] – Greater Vancouver BC  
*Isolating Genes for Gastric Carcinoma Treatment via Expression Meta-Analysis*

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**Katherine Teeter** [16] – Bluewater ON  
*Extracorporeal Sonic Wave Therapy for Inoperable Tumours*

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**Gayashan Tennakoon** [17] – Ottawa ON  
*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

**Megan Thomson** [17] – Bluewater ON  
*Concentrating on Neonicotinoids*

---

**Twesh Upadhyaya** [18] – Simcoe County ON  
*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

---

**George Utsin** [17] – Waterloo-Wellington ON  
*ThermIS: Automation of Viral System Detection*

---

#### 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.

---

**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

---

**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

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**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

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**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

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*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

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**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

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**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

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**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

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**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

---

#### 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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*EMMA: ElectroMyographically Manipulated Arm - The Future of Prosthetics*

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**Olivier Cloutier** [18] – Est du Québec QC  
*Chia : une cure précolombienne*

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**Kiri Daust** [17] – Pacific Northwest BC  
*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*

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*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*

---

**Cengiz Eller** [16] – Bluewater ON  
*Invest With Hal*

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**Aaron Gomes** [18] – Bay Area ON  
*Microwave Assisted Extraction of Polyphenols from Cocoa Powder*

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**Élizabeth Guévin Duchesne** [19] – Est du Québec QC  
*Attention à la baisse de pH !*

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**Deeksha Kundapur** [17] – Saskatoon SK  
*Anticancer Therapy: Targeting MAD1 Overexpression with SGOL1 and PP2A*

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**Megan Thomson** [17] – Bluewater ON  
*Concentrating on Neonicotinoids*

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# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Twesh Upadhyaya** [18] – Simcoe County ON  
*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

---

**George Utsin** [17] – Waterloo-Wellington ON  
*ThermIS: Automation of Viral System Detection*

---

#### Excellence Award - Senior

##### Gold Medal

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

---

**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

---

**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

---

**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

---

**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

---

**Nathan Kuehne** [17] – Vancouver Island BC  
*Phenylalanine Self-Diagnostic Test for Phenylketonuria Patients*

---

**Ray Liu** [16] – Greater Vancouver BC  
*Microcontroller Controlled Laser Area Denial (M-CLAD)*

---

**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC  
*Abrase-moi !*

---

**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON  
*UPOD: The Sixth Sensor*

---

**Hanna Tang** [17] – Ottawa ON  
*Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease*

---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

---

#### Excellence Award - Intermediate

##### Gold Medal

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

---

**Rebecca Baron** [15] – Greater Vancouver BC  
*Root Microbiomics: The Next Big Thing?*

---

**Catherine Beaudin** [14] – Ottawa ON  
*Reversing Atherosclerosis: A Paradigm shift in cardiovascular disease treatment*

---

**Marianne Drolet-Sénéchal** [16] – Estrie QC  
*Plaquettes : un trésor pour le X*

---

**Sunand Kannappan** [16] – Calgary Youth AB  
*Elucidating the Role of CDK5RAP2 in NSCLC*

---

**Meaghan MacKenzie** [15] – South Fraser BC  
*Fugitive Coal Dust Solutions in South Delta*

---

**Caroline Mahut** [16] – Bay Area ON  
*Taking the Flyway*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



---

**Grant Mansiere** [15] – Central Okanagan BC  
*Being Fair Isn't Fair: circadian resetting by electronic light and eye colour*

---

**Tasnia Nabil** [14] – Windsor ON  
*A Novel Mathematical Model for Ferromagnetic NanoTherapy to Cure Cancer*

---

**Dina Shehata** [15] – Eastern Newfoundland NL  
*A Low Cost Gel Block Model for Ultrasound Guided Training*

---

**Melody Song** [14] – Saskatoon SK  
*Food for Thought: Preventive Management of Neurodegenerative Disorders*

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#### Excellence Award - Junior

##### Gold Medal

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

---

**Om Agarwal** [12] – South Fraser BC  
*Stop Being Bullied*

---

**Milen Belanger** [13] – Peel ON  
*Testing the effect of colloidal silver on antibiotics fighting E.Coli*

---

**Rachel Brouwer** [13] – Halifax NS  
*Can We Improve the Quality of Water in Developing and Third World Countries?*

---

**Brent Charron** [12] – Windsor ON  
*The S.W.I.F.T. Unit - Putting Heat and Electricity Where You Need It!*

---

**Marcus Deans** [13] – Windsor ON  
*NOGOS: A Novel Nano-Oligosaccharide Doped Graphene Sand Composite Water*

---

**Maria Duynisveld** [14] – Chignecto East NS  
*Eggs-aming the Connection Between Foraging Behavior and Egg Characteristics*

---

**Ruchira Gupta** [14] – Peel ON  
*The Nose Knows Not*

---

**Waleed Sawan** [13] – Thames Valley ON  
*Every Drop Counts - An Intelligent Farming System*

---

**Kyle Teeter** [13] – Bluewater ON  
*Earthquakes: Improving Building Resiliency*

---

**Anastasia Young** [13] – Ottawa ON  
*Beam Me Up Scotty (Robotic Teleportation Through Skype)*

---

#### Excellence Award - Senior

##### Silver Medal

Sponsor: Youth Science Canada  
Medal & certificate

---

**Ariana Auyeung** [16] – Greater Vancouver BC  
*The Implementation of Nanoparticles to Eliminate Aspergillus Fungi*

---

**Noah Bergmann** [18] – Cariboo Mainline BC  
*The Modex: Real Time Musical Analysis*

---

**Nitish Bhatt** [16] – Eastern Newfoundland NL  
*COMPEL: A Novel Comprehensive Physical Environment Influenced Landslide Model*

---

**Katie Brent** [16] – Bay Area ON  
*EMMA: ElectroMyographically Manipulated Arm - The Future of Prosthetics*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Olivier Cloutier** [18] – Est du Québec QC

*Chia : une cure précolombienne*

---

**Kiri Daust** [17] – Pacific Northwest BC

*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*

---

**Dennis Drownik** [16] – Winnipeg Schools MB

*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*

---

**Cengiz Eller** [16] – Bluewater ON

*Invest With Hal*

---

**Aaron Gomes** [18] – Bay Area ON

*Microwave Assisted Extraction of Polyphenols from Cocoa Powder*

---

**Élizabeth Guévin Duchesne** [19] – Est du Québec QC

*Attention à la baisse de pH !*

---

**Deeksha Kundapur** [17] – Saskatoon SK

*Anticancer Therapy: Targeting MAD1 Overexpression with SGOL1 and PP2A*

---

**Michelle Li** [16] – York ON

*Regulation of Adipokines and Fat Growth by Master-switch Protein Kinase*

---

**Aisha Parven** [16] – Toronto ON

*Combining Gold Nanoparticles with Indium and Panitumumab to Inhibit Cancer*

---

**Nicholas Paun** [17] – West Kootenay & Boundary BC

*Chemlogic: A Logic Programming Chemistry System (2ed.)*

---

**Elizabeth Suen** [16] – Greater Vancouver BC

*Isolating Genes for Gastric Carcinoma Treatment via Expression Meta-Analysis*

---

**Katherine Teeter** [16] – Bluewater ON

*Extracorporeal Sonic Wave Therapy for Inoperable Tumours*

---

**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

**Megan Thomson** [17] – Bluewater ON

*Concentrating on Neonicotinoids*

---

**Twesh Upadhyaya** [18] – Simcoe County ON

*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

---

**George Utsin** [17] – Waterloo-Wellington ON

*ThermIS: Automation of Viral System Detection*

---

#### Excellence Award - Intermediate

##### Silver Medal

Sponsor: Youth Science Canada

Medal & certificate

---

**William Aidan Aird** [15] – York ON

*The Water Wheel Cart Plus - Improving the Quality of Life in Developing Nations*

---

**Chloe Chen** [15] – Greater Vancouver BC

*Smart Speed & Smart Intersection*

---

**Joshua Delacruz** [14] – Peace Country AB

*Prevent Cancers - "Zeolite-X" Filtering Out Radiation from Radioactive Tobacco*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Emily Gubski** [15] – Calgary Youth AB  
*The Importance of DDXXE Motif for the HIV-1 Nef Protein in the GI tract*

---

**James Ho** [14] – South Fraser BC  
*Exoskeleton Arm Utilizing Flexible Air Muscles*

---

**Tahmid Khan** [14] – Calgary Youth AB  
*Adaptive Wheel*

---

**Luke Macmillan** [16] – Chignecto West NS  
*Feet or Superfeet?*

---

**Margaret Hopkins** [15], **Nathan McNally** [16] – Annapolis Valley NS  
*Tidal Potential: Harnessing the Power of the Tides*

---

**Katie Myatt** [15] – Bluewater ON  
*Development of Latent 2-D Footwear Impressions: An Improved Methodology*

---

**Daniel O'Reilly** [15] – Central Interior British Columbia BC  
*Remedies Recovered From Roof Top Resources*

---

**Willa Pepin** [15] – Greater Vancouver BC  
*Kinesiology Plus - A Biofeedback Device for Retraining Harmful Muscle Memories*

---

**Victoria Platzer** [15] – Northern British Columbia BC  
*Beyond the Waste*

---

**Abhinav Boyed** [15], **Karthik Prasad** [14] – Peel ON  
*Thermovoltaics: Powering the Future*

---

**Rishika Geda** [16], **Kimia Raahemifar** [16] – Waterloo-Wellington ON  
*Binaural Beats: Bio-feedback Via Brainwave Entrainment*

---

**Madison Santos** [15] – Toronto ON  
*Stretch or Snap: The Effects of PH on Hair Durability*

---

**Elizabeth Schulz** [16] – Central Interior British Columbia BC  
*Investigating Correlations and Variations of *Lymnae stagnalis**

---

**Charley Smith** [15] – Central Okanagan BC  
*Driving our Cars on Wood and Water*

---

**Ted Stuart** [16] – Simcoe County ON  
*Biochar Filtration of Phosphorous*

---

**Holly Tetzlaff** [15] – Quinte ON  
*Small But Mighty-The Environmental Impact of Microbeads*

---

**Kelly Yang** [15] – Northwestern Ontario ON  
*Identification of A Novel Anti-adipogenic Compound from Dandelion*

---

#### Excellence Award - Junior

##### Silver Medal

Sponsor: Youth Science Canada  
Medal & certificate

---

**Ahmad Ali** [13] – Windsor ON  
*Waste to Watts II*

---

**Maude Couturier** [12] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*Les effets nocifs du cannabis*



# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Janet Dawson** [13] – Vancouver Island BC  
*Goodnight Sun!*

---

**Faris Fizal** [14] – Calgary Youth AB  
*Effect of Hypoxia on Learning and Memory*

---

**Kennedy Frittenburg** [13] – South Shore NS  
*Battling Biofouling: The Development of an Environmentally Sensitive Coating*

---

**Audrey Golsteyn** [13] – Lethbridge AB  
*Le danger de la recongélation*

---

**Clayton Harder** [14] – Northern Vancouver Island BC  
*Tidal Power Pump*

---

**David Tobias Holcer** [14] – Greater Vancouver BC  
*Benford's Law*

---

**Claire Hunter** [13] – Bay Area ON  
*Silent Music: A Novel Approach to Anxiety Reduction Using Tactile Sound*

---

**Myers Illes** [12] – Central Interior British Columbia BC  
*Off Your Dock, Into Your Garden*

---

**Sajeev Kohli** [13] – Waterloo-Wellington ON  
*R.E.D.M.A. - Residential Emergency Detecting Multifunctional Apparatus*

---

**Marie-Pier Lacroix** [13], **Sophie Lacroix** [13] – Montréal CLS QC  
*Migration clima-tique*

---

**Abby Parsons** [14] – Avon Maitland-Huron Perth ON  
*Germs Everywhere - An Innovative Germ Awareness and Hand Washing Program*

---

**Muhammad Patel** [13], **Zane Wiebe** [13] – Saskatoon SK  
*Avocado Milk Emulsion*

---

**Saisrihari Prithiviraj** [13] – Chignecto West NS  
*Savior from the Sea!!!*

---

**Hannah Vanderzwet** [14] – Thames Valley ON  
*The Magic of Mustard*

---

**Meg Warhurst** [14] – Cariboo Mainline BC  
*Wildfires - Protect Your Home!*

---

**Piper Warhurst** [12] – Cariboo Mainline BC  
*Youth, Vitamin D and Activity - What's The Connection?*

---

**Michael Wolfe** [12] – Bay Area ON  
*Wi-Tricity*

---

**David Wu** [13] – Thames Valley ON  
*Disappearing Monarchs: 7 Years of Study, One Shocking Fact*

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#### Excellence Award - Senior

##### Bronze Medal

Sponsor: Youth Science Canada  
Medal & certificate

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**Qasim Ali** [18], **Brendan Samek** [18] – Edmonton AB  
*Photon Filtration: A Novel Printer for Ink-Free Reusable Paper*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



- 
- Samna Aziz** [17] – Bay Area ON  
*Investigating Ceramic Calcium Phosphate Cements as Bone Replacing Material*
- 
- Elizabeth Beaulieu** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*La Vénus Lacque*
- 
- Dayna Bennett** [16] – Rideau-St. Lawrence ON  
*At a Snail's Pace*
- 
- Sascha Bodak** [16] – Thames Valley ON  
*Predictive Perceptron Networks: Temperature Forecasting Using Machine Learning*
- 
- Yoyo Ding** [16] – Greater Vancouver BC  
*Inmeshtigation: comparison of water vapour collection of 3 mesh sizes*
- 
- Manuel Dionne** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*La lâcheté triomphe*
- 
- Nika Elmi** [18] – York ON  
*The Mystery of Bipolar Disorder*
- 
- Matthew Falkner** [18] – Rideau-St. Lawrence ON  
*Engaging High School Students With Social Engineering*
- 
- Evan Farrell** [17], **Max Kevin Kit Musing** [18] – Toronto ON  
*Simulating Brains in Artificial Organisms*
- 
- Marie Floryan** [17] – Thames Valley ON  
*Development of Assistive Technology for Recovery from ACL Injury*
- 
- Camély Gendron** [15], **Mélody Gendron** [16] – Outaouais QC  
*L'asphalte, ça craque !*
- 
- Linda Guo** [16] – Wood Buffalo AB  
*Ready, Set, Go!*
- 
- Kaylee Hayko** [18], **Kristi Hayko** [15] – Regina SK  
*A Novel Approach to Bioenergy Production Using Primary Effluent and Coal*
- 
- SeonHo Jang** [17] – Thames Valley ON  
*Correlation between tissue changes & back pain in a mouse model of intervertebra*
- 
- Daniel Kanis** [17] – Fraser Valley BC  
*Hypertos: A launch into the web based era.*
- 
- James Lees** [17] – Chignecto East NS  
*Close Encounters of the Fourth Kind*
- 
- Siobhan MacDonald** [17] – Strait NS  
*Micro Hydro - Do a Lot, With a little*
- 
- Kathryn Moeck** [17] – Peterborough ON  
*Pifithrin and Phenylalanine as a Novel Cancer Treatment*
- 
- Blanche Mongeon** [16] – Montréal CLS QC  
*Gourmande scientifique*
- 
- Jayson Mtanos** [17] – Rive-Nord QC  
*Le moteur FuzioTeK*
- 
- Aiman Naeem** [16] – Wood Buffalo AB  
*Investigating Reclamation Potential of Native Plants*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Mia Pandolfo** [17] – Sudbury ON

*Paediatric Chronic Pain Application*

---

**Priyank Patel** [16] – Lambton County ON

*A Novel Approach to Energy Generation & Storage: Axial Flux with Supercapacitors*

---

**Holly Philbrick** [18] – Niagara ON

*Clarifying the Function of Vitamin E*

---

**Matthew Sampson** [18] – Strait NS

*The Scholar's 3-D Printer*

---

**Caitlyn Sandluck** [18] – Chignecto East NS

*Can We Prepare? Altering Innate Behaviour & Preparing for Invasive Fish Species*

---

**Austin Sawyer** [18] – Vancouver Island BC

*Low Cost Solutions to Improve Tie Longevity*

---

**Ellena Schuffert** [16] – Pacific Northwest BC

*Who knew being "dense" could be better! Mysteries of what the brain hears Part 2*

---

**Carl Shen** [17], **Gary Shen** [17] – Thames Valley ON

*Machine Learning Based Smart Bed Monitoring System*

---

**Devanshi Shukla** [17] – Waterloo-Wellington ON

*Evaluating antimicrobial plant-derived compounds*

---

**Katherine Sirois** [17] – Montérégie QC

*Neuro-Chapeau= Éveil au volant*

---

**Kent Smith** [17] – Chignecto West NS

*A Possible Solution for Ionic Pollution*

---

**Sonia Stewart** [18] – South Fraser BC

*Monitoring Medication Adherence-Part 2*

---

**Sindella Aiysha Sugden Lingard** [18] – East Kootenay BC

*Brain Nurture*

---

**Quin Sykora** [16], **Anna Verkhovskaya** [16] – Calgary Youth AB

*Balanced Homodyne Detector Laser Microphone*

---

**Joy Wang** [16] – Greater Vancouver BC

*ATP Starvation: Targeting Cancer Glucose Metabolism Using Metformin And MCT4*

---

**Jenny Wu** [16] – Calgary Youth AB

*The Attraction of Distractions*

---

**Alyssa Young** [16] – Eastern Newfoundland NL

*Childhood Cancer Chemotherapy: The promise of non-genotoxic options*

---

**Nicole Zhao** [16] – York ON

*Identification of Carbamazepine Degraders*

---

#### Excellence Award - Intermediate

##### Bronze Medal

Sponsor: Youth Science Canada

Medal & certificate

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**Elias Andersen** [15] – Simcoe County ON

*Countertop Cold Storage: An Innovation Using Peltier Chip Technology*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



- 
- Justin Barrette** [15] – Montréal CLS QC  
*La deuxième vie du pétrole*
- 
- Rachel Cey** [16] – Northwest Saskatchewan SK  
*Mechanics of the Throwing Motion*
- 
- Jay Chen** [15] – Northwestern Ontario ON  
*Lignin Adsorption: An Innovative Approach to Water Purification*
- 
- James Davy** [14] – Halifax NS  
*The Affect of Fatigue on a Soccer Player's Ability to Perform Skills*
- 
- Sarah DeWeerd** [16] – Thames Valley ON  
*The Effect of Playing a Musical Instrument on One's Memory Capacity*
- 
- Nicolaas Doyle** [14] – Niagara ON  
*Experiments in Collective Robotics*
- 
- Emma Dubroca** [15] – Montreal QC  
*Phagocytosis in Burn Patients*
- 
- John Burns Duynisveld** [16] – Chignecto East NS  
*Are There Differences in How Lettuce Genotypes Respond to Light Sources?*
- 
- Emma Fedusiak** [15] – Parkland SK  
*Is Vaccinating an Udder Mistake?*
- 
- Zane Frantzen** [14] – Simcoe County ON  
*Perfect Toast: Using Microcontroller Technology*
- 
- Elena Frie** [14] – Greater Vancouver BC  
*Ancient Solutions*
- 
- Nicole Green** [15] – Central Alberta AB  
*Pressure Cooker*
- 
- William Harvey** [15] – Saguenay-Lac Saint-Jean QC  
*Message codé : méninge-Hits ?*
- 
- Kate He** [15] – Halifax NS  
*Can Parkinson's Disease Be Cured through Neurogenesis?*
- 
- Raphael Hotter** [15] – Montreal QC  
*Ebola No More!*
- 
- YaWen Huang** [15] – Winnipeg Schools MB  
*The Effects of Stroke-Like Oxidative Stress on the Insulin Pathway*
- 
- Thomas Imbeault-Nepton** [14] – Saguenay-Lac Saint-Jean QC  
*Quand le cerveau tient « tête »!*
- 
- Connor Kindred** [14] – Prairie Valley SK  
*Tsunami Protection Barriers*
- 
- Olivia Li** [15] – Greater Vancouver BC  
*Lead it Go: Purifying Lead Contaminated Water with Common Seashells*
- 
- Justin Lin** [15] – Manitoba Schools Science Symposium MB  
*Effects of Statins on Scleraxis-Mediated Collagen Expression in Fibroblasts*
- 
- Maitry Mistry** [15] – Manitoba Schools Science Symposium MB  
*Influence of animal and plant hormone to increase Algae biomass production*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Emily Mittertreiner** [15] – Greater Vancouver BC

*The Every-Other-Day Diet*

---

**Jack Mogus** [14] – Bay Area ON

*A Novel Investigation Using Engineered Technologies to Reduce Tank Car Incidents*

---

**Zeel Patel** [15] – Wood Buffalo AB

*Computer-Aided Discovery Of Novel Invadopodia Inhibitors To Prevent Metastasis*

---

**Lucas Penny** [16] – Niagara ON

*Rhomboid Protease 4 mRNA Expression In A Mouse Model of Alzheimer's Disease*

---

**Jesse Plamondon** [15] – Northern British Columbia BC

*Breathable Rock: A Novel Approach to Isolating Oxygen in CaSO<sub>4</sub> H<sub>2</sub>O for on Mars*

---

**Dylan Rowe** [15] – Peterborough ON

*Do Verulam Ordovician Fossils vary due to the composition and level of Strata?*

---

**Marin Schultz** [14] – Lethbridge AB

*Advanced Breath Interface and Control Systems For Robotics*

---

**Hadia Selouani** [15] – Districts francophones du Nouveau-Brunswick (DFNB) NB

*SmartOc : un outil pour une cardiocographie intelligente*

---

**Dhrumil Shah** [15] – Wood Buffalo AB

*Multi-Turbine VentusCapio*

---

**Anirudh Shahi** [15] – Northwestern Ontario ON

*Vegetable Oils and Amines: A Novel Approach for Capturing and Utilizing CO<sub>2</sub>*

---

**Kariann Szemethy** [16] – Southeast Alberta AB

*Development of a low voltage UV-LED device for water disinfection*

---

**Roselyn Thom** [15] – Greater Vancouver BC

*OUCH That Vaccination Hurt! Convert the Hurt With Single-Sensory Distraction.*

---

**Patrick Trottier** [16] – Sudbury ON

*Naviguer sans s'aveugler*

---

**Margaret Williams** [15] – Bay Area ON

*Filtering Estrogenic Substances from Liquid Waste at the Household Level*

---

**Caleb Winder** [15] – Lambton County ON

*Fusion + Fission = Future*

---

**Jordan Winter** [15] – Algoma Rotary ON

*To Bee or Not To Bee: Overwintering Techniques and Losses of Honeybees in*

---

**Kenz Zaghib** [16] – Montérégie QC

*Transformation extrême !*

---

**Lilian Zhang** [14] – Calgary Youth AB

*What Garlic Components Can Inhibit Superbugs?*

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#### Excellence Award - Junior

##### Bronze Medal

Sponsor: Youth Science Canada

Medal & certificate

---

**Christopher Adolphe** [13], **Josh Benattar** [13] – Toronto ON

*The ABC's of Mouthwash*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**William Campbell** [12] – Kivalliq NU  
*What's the Drift? Where's the Drift?*

---

**Ben Chisholm** [14] – Fraser Valley BC  
*One Man's Waste is another Man's Power*

---

**Nick Cusack** [14] – Fundy NB  
*Need A Hand?*

---

**Abhigyan Dabla** [13] – South Fraser BC  
*Electromagnetic Radiation*

---

**Noah Davidson** [12] – St. James-Assiniboia MB  
*Curling Rocks!*

---

**Tyler Denes** [14] – Simcoe County ON  
*Power Your Car From Your Dinner Table*

---

**Erika Dunn** [14], **Amy MacFarlane** [13] – East Parry Sound ON  
*Chill Out!*

---

**Keegan Dursun** [12] – Edmonton AB  
*Watercress Cleans Toxic Chemicals From Waterways*

---

**Lydia Elbatarny** [13] – Frontenac, Lennox & Addington ON  
*Bubbling with Energy*

---

**Fiona Ewart** [13] – Halifax NS  
*Early immunological experience and the development of allergies*

---

**Nisha Gill** [14] – Frontenac, Lennox & Addington ON  
*Teen Perceptions and Personas*

---

**Alyssa Gran** [14] – Sudbury ON  
*Radon Mitigation, Absolute and Bronchial Dose: A Sixteen Month Experiment*

---

**Brandon Green** [12] – Central Alberta AB  
*X-treme Body Fuel*

---

**Lénárd Grossmann** [11] – Edmonton AB  
*Endangered Alberta-Climate Change at OUR Doorstep*

---

**Anika Gupta** [13] – Bay Area ON  
*The Effects of Pesticides and Neuroprotective Agents on Dopaminergic Neurons*

---

**Aiden Haddad** [13] – Quinte ON  
*Pendulum Transportation System*

---

**Gerone Dimalanta** [13], **Jazlyn Harper** [13] – Regina SK  
*Ne clignez pas!*

---

**Kileigh Harrington** [12] – Simcoe County ON  
*Saving Nature's Sunblock*

---

**Stephan Ducharme** [14], **Jacob Hill** [13] – Avon Maitland-Huron Perth ON  
*I'm Lovin' It! Producing Biopolymers From Fast Food Waste*

---

**Kaamraan Islam** [12] – Frontenac, Lennox & Addington ON  
*Green Oil: Improving the Extraction Efficiency of Bitumen from the Oil Sands*

---

**Hanneliese Laskowski** [13] – Pacific Northwest BC  
*Thinking about thinking: instinctive versus non-instinctive methods in archery*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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**Daniel Levin** [13] – Frontenac, Lennox & Addington ON  
*SMART Car Seat*

---

**James Lovett** [13] – Simcoe County ON  
*Super Sign*

---

**Benjamin Ma** [12] – Peel ON  
*Go Bananas!!!*

---

**Jacqueline Mansiere** [13] – Central Okanagan BC  
*An Eye For Colour: Digital Analysis of the Colour Palette in Artist's Paintings*

---

**Meera Moorthy** [13] – Quinte ON  
*Finding A Natural Fertilizer*

---

**Emily Moseley** [12] – Central Okanagan BC  
*Watt a Waste: Boundary Layer Effect + Axial Flux Generator = Clean Energy*

---

**Dylan Peil** [14] – West Kootenay & Boundary BC  
*Solar Concentrator Tracker*

---

**Bethany Helaine Poltl - Gibb** [11] – Niagara ON  
*Jitter Bug: How HFCS Affects the Longevity, Fertility & Behaviour of Drosophila*

---

**John Poole** [13] – Canadian Rockies AB  
*Magic Mushrooms*

---

**Abdullah Rashid** [12] – Manitoba Schools Science Symposium MB  
*Effect of Vitamin C on Macrophage Function*

---

**Chloe Reitlo** [12] – Northern Manitoba MB  
*Can you Drink Wastewater?*

---

**Jasmeen Mander** [14], **Avi Sahota** [14] – Peel ON  
*Is PET the right BET?*

---

**Holly Salem** [12] – Northwestern Ontario ON  
*The Baby Life Saver (BLS)*

---

**Alex Schneider** [13] – Quinte ON  
*"The Strength of Dogs' Olfactory System Among Different Breeds".*

---

**Aiden Simard** [14] – Western Manitoba MB  
*La suite de la suite*

---

**Aryan Singh** [13] – Ottawa ON  
*Inhibiting Pathogenic Infections: A Polyphenol and Carotenoid Based Approach*

---

**Sophia Spiropoulos** [13] – Calgary Youth AB  
*Organic: Is It Better?*

---

**Seamus Stears** [14] – Cape Breton NS  
*Take Your Best Shot*

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#### Gold Medal - International

Sponsor: Youth Science Canada  
Medal and a certificate

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**Rogelio de Jesús Serrano Rodríguez** [19], **Jessica Andrea Vázquez Corral** [18] – Mexico  
*Overview of Mexico's City Rivers*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### Challenge Award - Resources

##### Senior

Sponsor: Youth Science Canada  
Certificate

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**Siobhan MacDonald** [17] – Strait NS  
*Micro Hydro - Do a Lot, With a little*

---

#### Challenge Award - Resources

##### Intermediate

Sponsor: Youth Science Canada  
Certificate

---

**Daniel O'Reilly** [15] – Central Interior British Columbia BC  
*Remedies Recovered From Roof Top Resources*

---

#### Challenge Award - Resources

##### Junior

Sponsor: Youth Science Canada  
Certificate

---

**Brent Charron** [12] – Windsor ON  
*The S.W.I.F.T. Unit - Putting Heat and Electricity Where You Need It!*

---

#### Challenge Award - Innovation

##### Senior

Sponsor: Youth Science Canada  
Certificate

---

**Sandrine Bayard** [17] – Côte-Nord QC  
*Le pansement qui pense*

---

#### Challenge Award - Innovation

##### Intermediate

Sponsor: Youth Science Canada  
Certificate

---

**Caroline Mahut** [16] – Bay Area ON  
*Taking the Flyway*

---

#### Challenge Award - Innovation

##### Junior

Sponsor: Youth Science Canada  
Certificate

---

**Marcus Deans** [13] – Windsor ON  
*NOGOS: A Novel Nano-Oligosaccharide Doped Graphene Sand Composite Water*

---

#### Challenge Award - Information

##### Senior

Sponsor: Youth Science Canada  
Certificate

---

**Craig Fiedorek** [17] – Calgary Youth AB  
*Capturing the Value of Melody*

---

#### Challenge Award - Information

##### Intermediate

Sponsor: Youth Science Canada  
Certificate

---

**Nicolaas Doyle** [14] – Niagara ON  
*Experiments in Collective Robotics*



# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### Challenge Award - Information

##### Junior

Sponsor: Youth Science Canada  
Certificate

---

**Om Agarwal** [12] – South Fraser BC  
*Stop Being Bullied*

---

#### Challenge Award - Health

##### Senior

Sponsor: AstraZeneca Canada  
Certificate

---

**Katherine Teeter** [16] – Bluewater ON  
*Extracorporeal Sonic Wave Therapy for Inoperable Tumours*

---

#### Challenge Award - Health

##### Intermediate

Sponsor: AstraZeneca Canada  
Certificate

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**Tasnia Nabil** [14] – Windsor ON  
*A Novel Mathematical Model for Ferromagnetic NanoTherapy to Cure Cancer*

---

#### Challenge Award - Health

##### Junior

Sponsor: AstraZeneca Canada  
Certificate

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**Milen Belanger** [13] – Peel ON  
*Testing the effect of colloidal silver on antibiotics fighting E.Coli*

---

#### Challenge Award - Environment

##### Senior

Sponsor: Youth Science Canada  
Certificate

---

**Gayashan Tennakoon** [17] – Ottawa ON  
*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

#### Challenge Award - Environment

##### Intermediate

Sponsor: Youth Science Canada  
Certificate

---

**Rebecca Baron** [15] – Greater Vancouver BC  
*Root Microbiomics: The Next Big Thing?*

---

#### Challenge Award - Environment

##### Junior

Sponsor: Youth Science Canada  
Certificate

---

**Rachel Brouwer** [13] – Halifax NS  
*Can We Improve the Quality of Water in Developing and Third World Countries?*

---

#### Challenge Award - Energy

##### Senior

Sponsor: Youth Science Canada  
Certificate

---

**Austin Wang** [17] – Greater Vancouver BC  
*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### Challenge Award - Energy

##### Intermediate

Sponsor: Youth Science Canada  
Certificate

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**Charley Smith** [15] – Central Okanagan BC  
*Driving our Cars on Wood and Water*

---

#### Challenge Award - Energy

##### Junior

Sponsor: Youth Science Canada  
Certificate

---

**Clayton Harder** [14] – Northern Vancouver Island BC  
*Tidal Power Pump*

---

#### Challenge Award - Discovery

##### Senior

Sponsor: Youth Science Canada  
Certificate

---

**Dan Alferov** [17] – Thames Valley ON  
*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

---

#### Challenge Award - Discovery

##### Intermediate

Sponsor: Youth Science Canada  
Certificate

---

**Grant Mansiere** [15] – Central Okanagan BC  
*Being Fair Isn't Fair: circadian resetting by electronic light and eye colour*

---

#### Challenge Award - Discovery

##### Junior

Sponsor: Youth Science Canada  
Certificate

---

**Janet Dawson** [13] – Vancouver Island BC  
*Goodnight Sun!*

---

#### University of Ottawa Undergraduate Research Scholarship Award

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.

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**Marjan Ghazi** [17] – Montreal QC  
*Limitations of Beta-Blockers*

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#### Toronto Research Chemicals - Weizmann Canada Award for Scientific Achievement

Sponsor: Toronto Research Chemicals and Weizmann Canada

The award provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare (Toronto–Israel–Toronto). The dates of the Weizmann summer science program are July 1–29, 2015. Total value \$4,700.

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**Nika Elmi** [18] – York ON  
*The Mystery of Bipolar Disorder*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### Statistical Society of Canada Award

##### Senior

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

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**Kiri Daust** [17] – Pacific Northwest BC

*How Fast Does Ice Melt? Extent and Implications of Glacial Retreat in the Skeena*

---

#### Statistical Society of Canada and Biostatistics Section Award

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

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**Emily Mittertreiner** [15] – Greater Vancouver BC

*The Every-Other-Day Diet*

---

#### S.M. Blair Family Foundation Award

##### Senior

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

---

**Sandrine Bayard** [17] – Côte-Nord QC

*Le pansement qui pense*

---

#### S.M. Blair Family Foundation Award

##### Intermediate

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

---

**Catherine Beaudin** [14] – Ottawa ON

*Reversing Atherosclerosis: A Paradigm shift in cardiovascular disease treatment*

---

#### S.M. Blair Family Foundation Award

##### Junior

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

---

**Marcus Deans** [13] – Windsor ON

*NOGOS: A Novel Nano-Oligosaccharide Doped Graphene Sand Composite Water*

---

#### Renewable Energy Award

##### Senior

Sponsor: Ontario Power Generation  
\$1000 cash & certificate

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**Patrick Levesque** [18], **Frédéric Maltais** [19] – Saguenay-Lac Saint-Jean QC

*Abrase-moi !*

---

#### Renewable Energy Award

##### Intermediate

Sponsor: Ontario Power Generation  
\$750 cash & certificate

---

**Margaret Hopkins** [15], **Nathan McNally** [16] – Annapolis Valley NS

*Tidal Potential: Harnessing the Power of the Tides*

---

#### Renewable Energy Award

##### Junior

Sponsor: Ontario Power Generation  
\$500 cash & certificate

---

**Stephan Ducharme** [14], **Jacob Hill** [13] – Avon Maitland-Huron Perth ON

*I'm Lovin' It! Producing Biopolymers From Fast Food Waste*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### The Manning Innovation Achievement Award

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 at a later date) and receive an additional \$3,000 towards their post-secondary education.

---

**Dan Alferov** [17] – Thames Valley ON

*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

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**Samna Aziz** [17] – Bay Area ON

*Investigating Ceramic Calcium Phosphate Cements as Bone Replacing Material*

---

**Sandrine Bayard** [17] – Côte-Nord QC

*Le pansement qui pense*

---

**Cengiz Eller** [16] – Bluewater ON

*Invest With Hal*

---

**Craig Fiedorek** [17] – Calgary Youth AB

*Capturing the Value of Melody*

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**Aisha Parven** [16] – Toronto ON

*Combining Gold Nanoparticles with Indium and Panitumumab to Inhibit Cancer*

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**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

**Austin Wang** [17] – Greater Vancouver BC

*A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens*

---

#### 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 at a later date) and receive an additional \$3,000 towards their post-secondary education.

---

**Dan Alferov** [17] – Thames Valley ON

*Using the Perception of Facial Emotions to Aid in Diagnosis of Mood Disorders*

---

**Samna Aziz** [17] – Bay Area ON

*Investigating Ceramic Calcium Phosphate Cements as Bone Replacing Material*

---

**Sandrine Bayard** [17] – Côte-Nord QC

*Le pansement qui pense*

---

**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

#### International Summer School for Young Physicists Award

Sponsor: Perimeter Institute for Theoretical Physics

The award consists of a full scholarship to participate in the International Summer School for Young Physicists 2015 (ISSYP 2015) from July 12-25, 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.

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**Manuel Dionne** [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB

*La lâcheté triomphe*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### 4-H Canada Award

##### Senior

Sponsor: 4-H Canada  
\$1000 cash & certificate

---

**Dennis Drewnik** [16] – Winnipeg Schools MB  
*Identification of Plant Defense Genes in the Arabidopsis-Sclerotinia Pathosystem*

---

#### 4-H Canada Award

##### Intermediate

Sponsor: 4-H Canada  
\$750 cash & certificate

---

**Jordan Winter** [15] – Algoma Rotary ON  
*To Bee or Not To Bee: Overwintering Techniques and Losses of Honeybees in*

---

#### 4-H Canada Award

##### Junior

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

---

**Maria Duynisveld** [14] – Chignecto East NS  
*Eggs-aming the Connection Between Foraging Behavior and Egg Characteristics*

---

#### Engineering Innovation Award

##### Intermediate

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

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**Tahmid Khan** [14] – Calgary Youth AB  
*Adaptive Wheel*

---

#### The Dr. Lisa Su Award

##### Senior

Sponsor: Advanced Micro Devices (AMD)  
\$1,000 cash & certificate

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**Katherine Sirois** [17] – Montérégie QC  
*Neuro-Chapeau= Éveil au volant*

---

#### The Dr. Lisa Su Award

##### Intermediate

Sponsor: Advanced Micro Devices (AMD)  
\$750 cash & certificate

---

**Marin Schultz** [14] – Lethbridge AB  
*Advanced Breath Interface and Control Systems For Robotics*

---

#### The Dr. Lisa Su Award

##### Junior

Sponsor: Advanced Micro Devices (AMD)  
\$500 cash & certificate

---

**Sajeev Kohli** [13] – Waterloo-Wellington ON  
*R.E.D.M.A. - Residential Emergency Detecting Multifunctional Apparatus*

---

#### Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel  
\$500 cash & certificate

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**Daniel Levin** [13] – Frontenac, Lennox & Addington ON  
*SMART Car Seat*

# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### CAP Physics Prize

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

---

**Twesh Upadhyaya** [18] – Simcoe County ON

*Polarization-Selective Mirror based on a Silicon Nitride Photonic Crystal Slab*

---

#### Canadian Stockholm Junior Water Prize

Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Xylem  
One all expense paid trip to Stockholm, Sweden, August 22-28, 2015, 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.

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**Yoyo Ding** [16] – Greater Vancouver BC

*Inmeshtigation: comparison of water vapour collection of 3 mesh sizes*

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**Gayashan Tennakoon** [17] – Ottawa ON

*CEEP - A Novel Approach for Environmental Trace Elemental Analysis*

---

**Nicole Zhao** [16] – York ON

*Identification of Carbamazepine Degraders*

---

#### Canadian Society for Medical Laboratory Science Award

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

---

**Catherine Beaudin** [14] – Ottawa ON

*Reversing Atherosclerosis: A Paradigm shift in cardiovascular disease treatment*

---

#### Canadian Society for Clinical Chemists Award

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

---

**Samna Aziz** [17] – Bay Area ON

*Investigating Ceramic Calcium Phosphate Cements as Bone Replacing Material*

---

#### Canadian Artificial Intelligence Association Award

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

---

**Sajeev Kohli** [13] – Waterloo-Wellington ON

*R.E.D.M.A. - Residential Emergency Detecting Multifunctional Apparatus*

---

#### Canadian Acoustical Association Award

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

---

**Jeremy Mallette** [18], **Samantha Peets** [17] – United Counties ON

*UPOD: The Sixth Sensor*

---

#### Award for Excellence in Astronomy

##### Intermediate

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

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**Caleb Winder** [15] – Lambton County ON

*Fusion + Fission = Future*

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# Award Recipients

## Canada-Wide Science Fair 2015

### Fredericton, New Brunswick



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#### Award for Excellence in Astronomy

##### Junior

Sponsor: Royal Astronomical Society of Canada

Telescope & certificate plus a one year membership to RASC

---

**Janet Dawson** [13] – Vancouver Island BC

*Goodnight Sun!*