

Team BC  
Canada-Wide Science Fair Results



**Gold Medals**

Senior	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan
Intermediate	Ollie	Zhao	Amp Tree	Greater Vancouver
	Annie	McLeod	Marine Brown Algae Extracted Fucoxanthin and Phlorotannin in DSSC	Vancouver Island
	Yimeng	Li	Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?	Greater Vancouver
Junior	Aaliyah	Mahboubi	Microbial-film Power Generation 2.0 ? It's about to get cooler	Pacific Northwest

**Silver Medals**

Senior	Bill	Chen	Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell	Greater Vancouver
	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
	Winnie	Xu	Function of Podocalyxin in the Maintenance of the Blood Brain Barrier	South Fraser
Intermediate	Megan	Syho	An Ankle-Dorsiflexion Exercise Program to Improve Seniors' Balance and Gait	Greater Vancouver
	Kai	Leong	An Ankle-Dorsiflexion Exercise Program to Improve Seniors' Balance and Gait	Greater Vancouver
	Jonathan	Cao	reduce, reuse, reCompass	Greater Vancouver
	Nattan	Telmer	Powering Animal Trackers With Thermal Electric Generators (TEGs)	Vancouver Island
Junior	Jodh Singh	Nahal	Powering My Small Devices From Soil Bacteria Using MFCs (Microbial Fuel Cells)	Cariboo Mainline
	Jay	Botham	The Effect of Hair Dye on Hair Strength	Greater Vancouver
	Katarina	Vuorensivu	The Technosleeve	South Fraser
	Jesse	Pound	The Technosleeve	South Fraser
	Stuti	Sharma	Charma 2.0 ? An Orbital Settlement	South Fraser
	Cheryl	Chen	Charma 2.0 ? An Orbital Settlement	South Fraser
	Daniel	Kornylo	High School Voltage	Northern Vancouver Island

**Bronze Medals**

Senior	Charles	Wang	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
	Spencer	Zezulka	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
	Jaden	Ford	CO <sub>2</sub> NSEQUENCES	Northern British Columbia
	Selina	Zhou	Changes in Volatile Organic Compounds Emission Under Stressed Conditions	Greater Vancouver
	Ella	Chan	Oral Infections: Does lactoferrin inhibit the bactericidal action of eugenol?	Vancouver Island
	Katherine	van Kampen	Slowing Neuronal Degeneration	Central Okanagan
Intermediate	Melody	Cheng	A New Phase of Water: Is this measurable with surface tension?	Vancouver Island
	Eungyung	Kim	Reclamation: A systems change to waste management in the operating room	Central Interior British Columbia
	Anastasia	Castro	Fluctuation of Oceanic Microplastics at Depth and Effects on Marine Ecosystems	Vancouver Island
	Rory	Smith	Nuclei Oxidation Therapy: A New Take on Localized Antineoplastics	East Kootenay
	Rahman	Tawhid	A Novel Method in Predicting Chronic Disease	Cariboo Mainline
	Nicolas	Fedrigo	Stroke Rehabilitation Exoskeleton	Vancouver Island
	Yassin	Guitouni	The KNEEd for Power: Harvesting Biomechanical Energy	Vancouver Island
Junior	Liam	Ingram	Can We Fish Better?	West Kootenay & Boundary
	Laura	Cunningham	Salt in Fast Food: No Great Shakes for Your Health	Greater Vancouver
	Jonah	Haliburton	The Anchovy: Remotely Operated Submersible	Greater Vancouver

**Challenge Awards**

Senior - Environment	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
Intermediate - Environment	Yimeng	Li	Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?	Greater Vancouver
Intermediate - Energy	Ollie	Zhao	Amp Tree	Greater Vancouver
Junior - Energy	Aaliyah	Mahboubi	Microbial-film Power Generation 2.0 ? It's about to get cooler	Pacific Northwest
Senior - Discovery	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan

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Western University Scholarships

\$4000 Entrance Scholarship	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan
	Aaliyah	Mahboubi	Microbial-film Power Generation 2.0 ? It's about to get cooler	Pacific Northwest
	Ollie	Zhao	Amp Tree	Greater Vancouver
	Annie	McLeod	Marine Brown Algae Extracted Fucoxanthin and Phlorotannin in DSSC	Vancouver Island
	Yimeng	Li	Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?	Greater Vancouver
\$2000 Entrance Scholarship	Jodh Singh	Nahal	Powering My Small Devices From Soil Bacteria Using MFCs (Microbial Fuel Cells)	Cariboo Mainline
	Bill	Chen	Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell	Greater Vancouver
	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
	Jay	Botham	The Effect of Hair Dye on Hair Strength	Greater Vancouver
	Megan	Syho	An Ankle-Dorsiflexion Exercise Program to Improve Seniors' Balance and Gait	Greater Vancouver
	Kai	Leong	An Ankle-Dorsiflexion Exercise Program to Improve Seniors' Balance and Gait	Greater Vancouver
	Winnie	Xu	Function of Podocalyxin in the Maintenance of the Blood Brain Barrier	South Fraser
	Katarina	Vuorensivu	The Technosleeve	South Fraser
	Jesse	Pound	The Technosleeve	South Fraser
	Stuti	Sharma	Charma 2.0 ? An Orbital Settlement	South Fraser
	Cheryl	Chen	Charma 2.0 ? An Orbital Settlement	South Fraser
	Daniel	Kornylo	High School Voltage	Northern Vancouver Island
	Jonathan	Cao	reduce, reuse, reCompass	Greater Vancouver
	Nattan	Telmer	Powering Animal Trackers With Thermal Electric Generators (TEGs)	Vancouver Island
	\$1000 Entrance Scholarship	Melody	Cheng	A New Phase of Water: Is this measurable with surface tension?
Charles		Wang	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
Spencer		Zezulka	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
Liam		Ingram	Can We Fish Better?	West Kootenay & Boundary
Eungyung		Kim	Reclamation: A systems change to waste management in the operating room	Central Interior British Columbia
Anastasia		Castro	Fluctuation of Oceanic Microplastics at Depth and Effects on Marine Ecosystems	Vancouver Island
Jaden		Ford	CO2NSEQUENCES	Northern British Columbia
Laura		Cunningham	Salt in Fast Food: No Great Shakes for Your Health	Greater Vancouver
Rory		Smith	Nuclei Oxidation Therapy: A New Take on Localized Antineoplastics	East Kootenay
Rahman		Tawhid	A Novel Method in Predicting Chronic Disease	Cariboo Mainline
Selina		Zhou	Changes in Volatile Organic Compounds Emission Under Stressed Conditions	Greater Vancouver
Ella		Chan	Oral Infections: Does lactoferrin inhibit the bactericidal action of eugenol?	Vancouver Island
Katherine		van Kampen	Slowing Neuronal Degeneration	Central Okanagan
Jonah		Haliburton	The Anchovy: Remotely Operated Submersible	Greater Vancouver
Nicolas		Fedrigo	Stroke Rehabilitation Exoskeleton	Vancouver Island
Yassin	Guitouni	The KNEEd for Power: Harvesting Biomechanical Energy	Vancouver Island	

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**University of Ottawa**

\$4,000 Entrance Scholarship	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan
\$2000 Entrance Scholarship	Bill	Chen	Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell	Greater Vancouver
	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
	Winnie	Xu	Function of Podocalyxin in the Maintenance of the Blood Brain Barrier	South Fraser
\$1000 Entrance Scholarship	Charles	Wang	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
	Spencer	Zezulka	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
	Jaden	Ford	CO2NSEQUENCES	Northern British Columbia
	Selina	Zhou	Changes in Volatile Organic Compounds Emission Under Stressed Conditions	Greater Vancouver
	Ella	Chan	Oral Infections: Does lactoferrin inhibit the bactericidal action of eugenol?	Vancouver Island
	Katherine	van Kampen	Slowing Neuronal Degeneration	Central Okanagan

**University of Manitoba**

\$5000 Entrance Scholarship	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan
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**The University of British Columbia (Vancouver)**

\$4000 Entrance Scholarship	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan
\$2000 Entrance Scholarship	Bill	Chen	Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell	Greater Vancouver
	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
	Winnie	Xu	Function of Podocalyxin in the Maintenance of the Blood Brain Barrier	South Fraser

**The Gwyn Morgan and Patricia Trottier Foundation**

Senior	Charles	Wang	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
	Spencer	Zezulka	Solar-Powered Production of Clean Fuel by the Fermentation of C. acetobutylicum	South Fraser
Intermediate	Yimeng	Li	Anaerobic Respiration: A Novel Bioelectrochemical Copper Recovery System?	Greater Vancouver
	Nattan	Telmer	Powering Animal Trackers With Thermal Electric Generators (TEGs)	Vancouver Island

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Senior	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
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**S.M. Blair Family Foundation**

Intermediate	Nattan	Telmer	Powering Animal Trackers With Thermal Electric Generators (TEGs)	Vancouver Island
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**Ontario Power Generation**

Junior	Aaliyah	Mahboubi	Microbial-film Power Generation 2.0 ? It's about to get cooler	Pacific Northwest
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**Dalhousie University, Faculty of Science**

\$5000 Entrance Scholarship	Grant	Mansiere	Why do Aspens Tremble? Adaptations for Self Cleaning and Pest Control	Central Okanagan
\$2500 Entrance Scholarship	Bill	Chen	Graphene Oxide Enhanced Proton Exchange Membrane Fuel Cell	Greater Vancouver
\$2500 Entrance Scholarship	Phyllis	Lesnikov	Phytoremediation of Zinc Contaminated Mines Using Novel Transgenic A.Thaliana	Greater Vancouver
\$2500 Entrance Scholarship	Winnie	Xu	Function of Podocalyxin in the Maintenance of the Blood Brain Barrier	South Fraser

**Carlson Wagonlit Travel**

Junior	Nicole	Sonnichsen	The Tesla Smarkade ? Wireless Electric Car Charging Parkade	West Kootenay & Boundary
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**Canadian Association of Physicists**

Intermediate	Melody	Cheng	A New Phase of Water: Is this measurable with surface tension?	Vancouver Island
Junior	Daniel	Kornylo	High School Voltage	Northern Vancouver Island