Gold Medal

Abigail Chan	Decoding Brain Waves using Electroencephalography (EEG)
Aadrika Bhakt	HNU: Bridging the Gap to Essential Hygiene for All
John Fu	Beyond Buttons: Face-Controlled Input for Enhanced Accessibility
Sammy Hawari	Sign Vocalizer: Elevating Non-verbal Communication
Ananth Arunkumar	RipeNet
Arjun Raychowdhuri	ReconNEXT
Aris Chan	A Novel Approach to Using AI to Detect Melanoma
Khalil Hawari	Unravelling the Web with Adaptive AI
Casper Dong	Novel Cooling and Cleaning of Solar Panels Utilizing Hydrogels
Aditya Mahes	Predicting Palmitoylation Sites To Advance Neurological Research
Ayesha Abubakr	AnaLung: A Novel Approach to Lung Cancer Diagnosis
ShaoEn Tang	Neuroimmune mechanisms that contribute to cancer development
Emily Huang	Shining a light on POTS
Darsh Dharani Kumar	Google Read and Right? The Impact of Learning App Features
Ayra Zulfiqar	Window into the soul/ Art psychology
Anna Gomis Flores	How Listening to Music Affects Eating Speed
Anum Dasoo	Frustration Demonstration Station: The Effects of Frustration
Makinley King	Flexible Fun: A Study of How Choice Affects Motivation
Amelia Pletsch	Life on Mars: Germinating Edible Plants in Martian Regolith
Jessica Jin	Debunking the Myth of Multitasking
Dingcheng Ruan	How Music Affects Working Memory
Shreyash Umamaheswaran, Loyd Gebreselassie	Greater Agricultre? Yes, please.
Roocha Shukla	Green-Armour: A Novel Plant Biostimulant
Tristan Butcher	ExoSeer: A Comprehensive Algorithm for Exoplanet Analysis
Vera Golubitsky	Reversible Stratospheric Albedo Modification
Boyu (Felix) Pang	EVALUATING THE EFFECTIVENESS OF DAMPERS IN VIBRATION MITIGATION
Felicity Banbury	Soil Speaking: The Effect of Land Use on Soil Carbon Sequestrati
Cadenza Farina	Go With The Flow: Optimizing Water Wheels For Energy Generation
Eric Bao	Fates of Rogue Planets by Microlensing and N-Body Simulation
Anna Chen	Graphene Quantum Dots for Dendrite Free Zinc-Ion Batteries
Seif Atwa	Finding a Circumbinary Planet using Eclipse Timing Variation

Silver Medal

Vladimir Skadorov Anaum Sohail Joshua Wu Michaela Suits, Alina Amaya Saral Patel, Tahreem Noor Diya Basdeo Tasbiha Wasim Anastasia Miroshnikova, Mia George **Daniel Zhang** Mia Reyes Jujhar Seehra Sylvia Robinson Hazel Allen Sarah Ehrlich, Madison Sellers Myranoush Khan, Tejal Patil Nayaa Singh Aanya Mendapara Eslam Al Muhalhal, Louisa Baumann

Bronze Medal

Carson Toonstra Kalli-Ann Sevaptsidis Rowan Kellman Cate Winterhalt, Benjamin Phillips Ahmed Aamir Mufarrid Saif Ansari Moiz Hussain Kaavya Ragu, Ben Walsh Ali Qureshi Chloe Kizito Akash K Sathishkumar Aishee Roychowdhury, Ziyi Ye Joshua Alaga Arkin Cheppudira John Jayakumar James Wolf

Hand Gesture Controlled Robotic Arm H2Grow: An Arduino Smart Irrigation System MedChip **Optical Illusions and Mind Games** Eat Snow - Yes/No Rapidly Racing Roots: Hydroponic and Traditional Gardening Minds In The Machine Fermentation Natural Defense: Antibacterial properties of Natural Substances How to Create a Memorable Logo Game Time's Up: A Study of the Effects of Video Games Testing for Correlations Between EQ and Pareidolia Genetic Modification and its Effects on Soil Health The Fertilizer Frontier **Cognitive Response Experiment** Natural Armor:Natural compounds and their effect on skin bacteria Valuable Vitamins: Cooking Methods & Vitamin Retention Developing Accessible, Plant-Based Sun Protection

Overcoming Verbal Communication Barriers Using Machine Learning Employing AI to Detect Breast Cancer Ground Effect Vehicle Design and Canadian Applications Doctor GPT: How well can AI diagnose illnesses based on symptoms Cultivating life beyond earth Harnessing AI in Predicting and Mitigating Disease Outbreaks **Revolutionizing Respiratory Wellness** Types of grounding on Foxhole Radio STROOP EFFECT: The World's Favourite Brain Game Temperature in heat shock for E. coli and Antibiotic Resistance Hoopin' To The NEXT LEVEL Food For Thought: Meal Ticking Time Bomb Sonic vs Cancer Retaining Relevance: A Study of Content Length and Memory Which is Better, Plant-base or Meat Burgers Difficulty Dilemmas: Perceptions, Performance, and Predictions

Bronze Medal continued

Emily Pavlin Scarlett Jones Maliya Pigozzo, Nyla Harnum **Brayden Streutker** Farida Hassan Orion Wilson, Adam Kugler Eva Luccisano-Esposito Jade Tran, Ethan Tran Oliver Young, Won Jong Song Ben Pridham Zainab Wasim Sophie Rus Esli Drummond Hannah Jiao, Abigail Lin Andreas Kyriacou, Oliver Leonard Omar Hamadeh Katherine Albright Daniel Covalcic

Pewter Medal

Muryum Aamir Jeevithan Muhunthan Tara Ganipur Zander Emmerton Ibraheem Aamir Yaning Zhu Max Winter Arjun Mahes Vaidik Shingalla Harman Bawa, Maunil Patel Kate Korczak Anne Begley, Joy Cha-Kang Rowena Bennesch Inayah Ally Lilia Biswas Musa Shaikh

The Effects of Stretching on on Anaerobic Power Stress Less - Achieve More? The Effect of Mindful Activities Don't Get Puzzled! Bacteria in my House? React Faster: A Study on Improving Human reaction time How WIFI Radiation Affects Plant Growth Plastic Revolution?: A Study of Biodegradable Plastics The Power of Presence: Mindfulness Meditation and Productivity Combating Digital Eye Strain Excluding Blue Light Blocking Glass Focusing on Change Eye-Spy-Lies Unravelling the Accuracy in Eyewitness Accounts The Promise of Nutrigenomics Fluid Fortitude: Non-Newtonian Fluids and Puncture Resistance Stop, it popped! - Exploring Acidity in Direct Spherification Melt the Ice An automated system for measuring gas release rates Pop for Boba Making aspirin more efficiently

Can Al Diagnose Breast Cancer A Novel Approach To Computer Composition Aqua Pura Kanata: Water Quality In 6 Nations Reinforced Racing: A Study of Grid-Based Reinforced Learning Getting medicine at the Right place at the Right time The Invention of a Universal Language How To Launch Your Dog (A Ball) Using ML to predict the progressions of heart complications **Biometric Attendance System** AgroGlance - An Economical Detector for Fertilizer Efficiency Bacillus Biodegradation: Reducing Microplastics in the Human Bod How to Not Die While Drinking Water Animal Conditioning and the Litter Problem Cosmic Cultivation: Exploring Plant Growth Beyond Earth's Bounds Society's Outlook on Vaping Mnemonic versus Rote memorization; Long Term Memory Impact

Pewter Medal continued

Chloie Clarke, Brianna Macpherson Evan Kotlyachkov Han Kwak Graydon Jarych Tessa Main, Cara Williams Johann Kumarakulasingam Liam Riche Tehya Vyas, Vaneeza Qureshi **Ronin Thompson** Calvin Chang-Kue Layana Abdelwahab Julia Scheerer, Mackenzie McIntyre Sharjeel Parekh, Leon Somerton-Veilleux Liam Martin, Johnathan Caleta Amir Savad Eddy Ye, Aarya Bandi Remy Wang

Founders' Award of Excellence

Roocha Shukla

Award of Merit

Roocha Shukla Casper Dong Anna Chen Ayesha Abubakr Abigail Chan Ananth Arunkumar Amelia Pletsch Sammy Hawari Tristan Butcher The KT Project A Switchy Situation: Task Difficulty and Task Switching Flipping Under Pressure: A Study of Spectators and Pressure Eye Conditions and Screen Time Heart Rate How Sound Affects Taste Bacteria...Doesn't Quite Cut It? Cutting Boards and Bacteria Gut Microbiome Health vs Mental Health Drag in Sphere Aerodynamics Magnetic Force Smart Green House Does It Glow? World Transport Systems & How To Make KW A Transit Haven Impact of Fin Choice on Model Rockets Hooke's Law and Elastic Bands Seeing Through Stealth: Implications of Artificial Intelligence Biomimicking slime moulds to find the path of least resistance

Green-Armour: A Novel Plant Biostimulant

Green-Armour: A Novel Plant Biostimulant Novel Cooling and Cleaning of Solar Panels Utilizing Hydrogels Graphene Quantum Dots for Dendrite Free Zinc-Ion Batteries AnaLung: A Novel Approach to Lung Cancer Diagnosis Decoding Brain Waves using Electroencephalography (EEG) RipeNet

Life on Mars: Germinating Edible Plants in Martian Regolith Sign Vocalizer: Elevating Non-verbal Communication ExoSeer: A Comprehensive Algorithm for Exoplanet Analysis

Stepping Stone

Cadenza Farina Aris Chan Vladimir Skadorov Anastasia Miroshnikova, Mia George Felicity Banbury

Best Written Report

Kevin Huang Khalil Hawari Sammy Hawari John Fu Anaum Sohail Cadenza Farina Johann Kumarakulasingam

Stephen J. Little Award

Saral Patel, Tahreem Noor

Best in Division

Roocha Shukla Ananth Arunkumar Anna Chen Go With The Flow: Optimizing Water Wheels For Energy Generation A Novel Approach to Using AI to Detect Melanoma Hand Gesture Controlled Robotic Arm Fermentation Soil Speaking: The Effect of Land Use on Soil Carbon Sequestrati

Stereo Camera School Zone Safety Driving Assistant Unravelling the Web with Adaptive AI Sign Vocalizer: Elevating Non-verbal Communication Beyond Buttons: Face-Controlled Input for Enhanced Accessibility H2Grow: An Arduino Smart Irrigation System Go With The Flow: Optimizing Water Wheels For Energy Generation How Sound Affects Taste

Eat Snow - Yes/No

Green-Armour: A Novel Plant Biostimulant RipeNet Graphene Quantum Dots for Dendrite Free Zinc-Ion Batteries