

# Brock Science Mentorship Symposium February 1, 2020

Time	GSB 305	GSB 306	GSB 307	GSB 308	GSB 310
9:15 - 9:30	Welcome (GSB 306) - Dr. Joffre Mercier				
9:35 - 9:55	<p>Building a cheap homemade O<sub>2</sub>/CO<sub>2</sub> incubator for growing human cells</p> <p><i>Philip Samokhin - Sir Winston Churchill Secondary School</i></p> <p>Research conducted under the supervision of Dr. Jeff Stuart, Department of Biological Sciences.</p>	<p>Exploring the Diversity of Wild Bee Species in the Niagara Region</p> <p><i>Ava Naphin - Denis Morris Catholic High School</i></p> <p>Research conducted under the supervision of Dr. Miriam Richards, Department of Biological Sciences.</p>	<p>Ecofriendly Transformation of Waste Biomass to Biofuels</p> <p><i>Pranav Parakh - A.N. Myer Secondary School</i></p> <p>Research conducted under the supervision of Dr. Janusz Kozinski, Office of the President.</p>	<p><i>The Paradoxical Wonders of Cold Induced Vasodilation</i></p> <p><i>Grant Booth - Saint Paul Catholic High School</i></p> <p>Research conducted under the supervision of Dr. Stephen Cheung, Department of Kinesiology.</p>	<p>Examining the Effects of Octopamine as a Neurotransmitter and Co-transmitter in the <i>Drosophila</i> Nervous System</p> <p><i>Kiran Hazra - Eden High School</i></p> <p>Research conducted under the supervision of Dr. Joffre Mercier, Department of Biological Sciences.</p>
10:00 - 10:20	<p>The Use of Rosemary Extract to Prevent Free Fatty Acid-Induced Muscle Cell Insulin Resistance</p> <p><i>Maggie Wan - Sir Winston Churchill Secondary School</i></p> <p>Research conducted under the supervision of Dr. Litsa Tsiani, Department of Health Sciences.</p>	<p>Effects of Social Instability Stress on Reward Preference in Long-Evans Rats</p> <p><i>Arianna Paolone - Denis Morris Catholic High School</i></p> <p>Research conducted under the supervision of Dr. Cheryl McCormick, Department of Psychology.</p>	<p>From Sensory Processing to Target Detection</p> <p><i>Mayah Cousens - A.N. Myer Secondary School</i></p> <p>Research conducted under the supervision of Dr. Ayda Tekok-Kilic, Department of Child and Youth Studies.</p>	<p><i>Examination of Remnants of Faults in Valles Marineris, Mars</i></p> <p><i>Mackenzie Smith - Saint Michael Catholic High School</i></p> <p>Research conducted under the supervision of Dr. Frank Fueten, Department of Earth Sciences.</p>	<p><i>The Effects of Dual Vector Resistance Bands on Shoulder Muscle Activity During Rehabilitation Exercises</i></p> <p><i>Sydney Thompson - Eden High School</i></p> <p>Research conducted under the supervision of Dr. Michael Homes, Department of Kinesiology.</p>
10:20 - 10:40	Refreshment Break				
10:40 - 11:00	<p>Posture's Effects on Body Image</p> <p><i>Charlotte Chan - Sir Winston Churchill Secondary School</i></p> <p>Research conducted under the supervision of Dr. Kimberley Gammage, Department of Kinesiology.</p>	<p>Vineyard Monitoring</p> <p><i>Branson Vernon - Thorold Secondary School</i></p> <p>Research conducted under the supervision of Mr. Tom MacDonald, Manager - Technical Services.</p>	<p>Engineering an Optogenetic Variant of Gal-4</p> <p><i>Ayyah Elayan - A.N. Myer Secondary School</i></p> <p>Research conducted under the supervision of Dr. Aleksander Necakov, Department of Biological Sciences.</p>	<p><i>Children's Saving Behaviour</i></p> <p><i>Maria Conversano - Holy Cross Catholic Secondary School</i></p> <p>Research conducted under the supervision of Dr. Caitlin Mahy, Department of Psychology.</p>	<p><i>Synthesis of NaCNACI and its Coupling Chemistry</i></p> <p><i>Sam Nolan - St. Francis Catholic High School</i></p> <p>Research conducted under the supervision of Dr. Georgii Nikonov, Department of Chemistry.</p>
11:05 - 11:25	<p>The Impact Of Forest Management Strategies On Cell Structure And Carbon Sequestration In Trees</p> <p><i>Jane Bellefleur - Governor Simcoe Secondary School</i></p> <p>Research conducted under the supervision of Dr. Michael Pisaric, Department of Geography.</p>	<p>Towards an Efficient, Chemoenzymatic Synthesis of Unsymmetrical Lipid Species Containing Siloxane Units</p> <p><i>Kevin Stefanchuk - Thorold Secondary School</i></p> <p>Research conducted under the supervision of Dr. Paul Zelisko, Department of Chemistry.</p>	<p>Recognition of Cardiac-Related Prodromal Fatigue: A Multilayered Experience</p> <p><i>Brooke Bernier - Stamford Collegiate Secondary School</i></p> <p>Research conducted under the supervision of Dr. Sheila O'Keefe-McCarthy, Department of Nursing.</p>	<p><i>Exploring the Measures of Preservation for Protein Storage in Solution</i></p> <p><i>Morgan Robinson - Greater Fort Erie Secondary School</i></p> <p>Research conducted under the supervision of Dr. Jeffrey Atkinson, Department of Chemistry.</p>	<p><i>Investigating Emotional Dysregulation in Individuals with MHI</i></p> <p><i>Gabryelle Corriveau - Welland Centennial Secondary School</i></p> <p>Research conducted under the supervision of Dr. Dawn Good, Department of Psychology.</p>
11:30	Closing Remarks (GSB 306)				