



Organized by department/unit and alphabetically by last name

| #  | Unit | First Name | Last Name       | Project Title   |
|----|------|------------|-----------------|---|
| 1  | BCMB | Natalie    | Berry           | Structural and Functional Characterization of a Novel S1_25 Sulfatase   |
| 10 | BCMB | Natalie    | Boraston        | Developing an ATP-Assay to Detect Antibiotic Tolerance in <i>Enterococcus faecalis</i>  |
| 11 | BCMB | Maddy      | Brookall        | Epigenetic Regulation of T cells by the Metabolite 1-Methylnicotinamide   |
| 19 | BCMB | Jordan     | Cucksey         | MeCP2 Variation and Isoform Composition in Different Mice Tissues   |
| 20 | BCMB | Sophie     | Culos           | Changes to Bacterial Lipids Induced by Variable Growth Conditions   |
| 27 | BCMB | Jaden      | Dedora          | Discovering the Role of Tumour-infiltrating B Lymphocytes Antibodies  |
| 29 | BCMB | John       | Evans           | Investigating the Regulation of PI3Ky   |
| 31 | BCMB | Mira       | Finkelstein     | New Hope for Neurodegenerative Diseases: Binding of a Novel Agonistic Antibody to Tyrosine Kinase Receptor B  |
| 32 | BCMB | Breeze     | Gladwin         | Discovering the Clonal Evolution and Antigen Reactivity of Tumour Infiltrating B Cells in Ovarian Cancer  |
| 38 | BCMB | Courtney   | Granger         | New Discoveries of Nej1 in Alt-EJ: Implications for Cancer Therapeutics   |
| 39 | BCMB | Megan      | Greensill       | SCRaMBLE in <i>Bacillus subtilis</i> : A Rapid Combinatorial Method for Generating Phenotypic Variation   |
| 41 | BCMB | Arden      | Grew            | The Effects of the Intrinsically Disordered Loops of Fpr4 on Mediating Protein Interactions   |
| 42 | BCMB | Ocean      | Han             | Hacking Co-stimulatory Receptors with Checkpoint Antibodies   |
| 44 | BCMB | Isabella   | Kroker Kimber   | Do Intravenous Antibiotics Impact the Gut Microbiome?   |
| 48 | BCMB | Angela     | Mitchell        | Development of a Direct Diagnostic Test for Syphilis  |
| 47 | BCMB | Liam       | Mitchell        | RecQ Helicase SGS1's Important Role in Maintaining Genomic Stability  |
| 56 | BCMB | Vicka      | Pluzhnikova     | The Role of Isovalerate in Small Intestinal Barrier Maintenance During Helminth Infection   |
| 57 | BCMB | Andrew     | Rodd            | Investigating the Role of Dyskerin in DNA Damage Repair   |
| 59 | BCMB | Mackenzie  | Scott           | Investigating the Interactions Between PI4KA and its Accessory Proteins   |
| 60 | BCMB | Stephanie  | Skalitzky       | Constructing a Bacterial Tumor Infection Model in Cancer  |
| 64 | BCMB | Cameron    | Urquhart        | Lipid Identities and Spatial Distributions within Tadpole Brains  |
| 65 | BCMB | Annika     | Weir            | Characterization of Environmental Bacteria via Microbial Lipids   |
| 2  | BIOL | Paige      | Amos            | Crab Scars: Differentiating Crab Species-specific Repair Scars on Mollusc Prey for Reconstructing Crab Abundance Through Time   |
| 9  | BIOL | Amran      | Aujla           | Investigating the Co-expression of Acetylcholine and $\gamma$ -Aminobutyric Acid in the Pedunculopontine Tegmental Nucleus, Motor Cortex, Striatum, and Medial Septum                       |
| 12 | BIOL | Isabelle   | Cliché          | Effects of "The Blob" on Chaetognath Community Composition off the West Coast of Vancouver Island   |
| 18 | BIOL | Hazel      | de Haas         | Within-species Variation in the Elemental Composition of Threespine Stickleback within the Cowichan Drainage Basin  |
| 21 | BIOL | Nicole     | Fung            | Assessing the Effect of Long-term Formalin Preservation on Zooplankton Biovolume Estimates  |
| 26 | BIOL | Adam       | Gheis           | How Do Salmon Get Past a Landslide Blockage: Investigating the Genetic Basis of Landslide Passage Ability in Chinook and Sockeye Salmon   |
| 28 | BIOL | Kaitlin    | Griffith        | Investigating the Effect of the Loss of Complement Factor D on Complement Activity in the Stargardt Disease Mouse Model   |
| 33 | BIOL | Cierra     | Hart            | Rock the Boat: An Investigation into the Effects of Vessel Noise on Rockfish Communication  |
| 37 | BIOL | Alistair   | Knox            | Establishing a Breeding Program for <i>Pteridophyta</i>   |
| 40 | BIOL | Rebecca    | Krohman         | What Stress Sequence Will Kill Me? The Perspective of <i>Tigriopus californicus</i>   |
| 43 | BIOL | Bethany    | Robson          | A Comparison of Drought Tolerance in Two Conifers with Contrasting Mycorrhizal Associations   |
| 49 | BIOL | Kirsten    | Suesser         | School of Hard Knocks: Young Adult Concussions (Repeated mTBI Modulation of Synaptic Plasticity in Female Rat Hippocampi)   |
| 55 | BIOL | Angus      | Townsend        | Two Separate Strategies, or Sequential Age and Life-history Connected Reproductive Tactics? An Analysis of Plainfin Midshipman ( <i>Porichthys notatus</i> ) Otolith Annuli to Estimate Age |
| 58 | BIOL | Olivia     | Waller          | Calbindin and ChR2 Expression in the Dopaminergic SNc and VTA of DATcre::ChR2-EYFP Mice   |
| 3  | CHEM | Sarah      | Bryan           | Weeding out THC Isomers Using Mass Spectrometry   |
| 8  | CHEM | Holly      | Celuszak        | Predicting Chemical Reactivity of a Key Step in Common Chemical Reactions   |
| 13 | CHEM | Odhran     | Cruise          | Direct Alkenylation of Vinyl Halides: Reaction Discovery Through High-Throughput Experimentation  |
| 17 | CHEM | Tyler      | Curtz           | The PEPSI Challenge: A Catalyst that Allows for Mechanistic Analysis  |
| 22 | CHEM | Tiago      | Fisher          | A Small Mercury Drop and a Quick Catalytic Stop: A Toxic Test for Homogeneity   |
| 25 | CHEM | Maria      | Hangad          | From Droplets to Drug Delivery: Lab-on-a-Chip Device for Dosing Retinoic Acid in Polycaprolactone Microparticles  |
| 30 | CHEM | Manon      | Latrille        | Impact of Using Weekly Quizzes on Student Learning of Introductory Organic Chemistry  |
| 34 | CHEM | Doug       | Miller          | Unlocking Pathways for Novel Molecules  |
| 46 | CHEM | Maximilian | Strasser        | Examining the Effects of the Acceptor on the Optoelectronic Properties of Phenol-based Donor-Acceptor Pairs   |
| 50 | CHEM | Martin     | Trapero Sempere | The Synthesis of Cyclic Phosphonates: Towards Stable and Recyclable Main Group Plastics   |
| 54 | CHEM | Jade       | Watson          | Isolation of Unstable Heavy Analogues of Nitroso- and Nitro-benzene: Stabilization Through Extreme Steric Hindrance   |
| 61 | CHEM | Peter      | Yang            | Optical Properties of Molecules at the Air-water Interface  |
| 4  | EOSC | Isabelle   | Beaupré-Olsen   | The Mineralogy of Fe-bearing Hydrothermal Vent Particles at the Endeavour Mid-ocean Ridge   |
| 7  | EOSC | Matteo     | Ferri           | Graphite Thermometry of the Big Salmon Range, South-Central Yukon   |
| 14 | EOSC | Anna       | Nickoloff       | Oceanic Response to Widespread Ocean Thermal Energy Conversion  |
| 16 | EOSC | Sophia     | Olim            | Mitigating Anthropogenic Climate Change with Aqueous Green Energy: Direct Air Carbon Dioxide Capture and Storage Powered by Ocean Thermal Energy Conversion                                 |
| 23 | EOSC | Meghan     | Reyda-Molnar    | Investigating the Timing of Saanich Inlet's Summer Mini-blooms  |
| 35 | EOSC | Taylor     | Rushton         | Pressure Compensation of RBR Optical Dissolved Oxygen Sensor  |
| 51 | EOSC | Matthew    | Stephens        | Using Stream Data to Measure Phanerozoic Dolomite Frequency   |
| 53 | EOSC | Andrea     | Valcourt        | Canada's Most Complete Merycoidodon Fossil  |
| 62 | EOSC | Savanna    | Yamamoto        | Mapping Aquifers Using Electrical Resistivity Surveying on Eastern Vancouver Island in the Beaufort Watershed   |
| 6  | PHYS | Nathan     | Clements        | Maximizing Normal Tissue Sparing: Ultra-high Dose Rate GRID Radiotherapy Using Very-high Energy Electrons   |
| 15 | PHYS | Matt       | Forbes          | Classical Tensor Network Methods for the DMR Julia Library  |
| 24 | PHYS | Jennifer   | Glover          | An Unusual Fossil Hunt: Finding New Stars in Old Galaxies   |
| 36 | PHYS | Joshua     | Goodeve         | Dancing with Dust: Hunting for Evidence of Exoplanets in Circumstellar Disks  |
| 52 | PHYS | Jake       | Neijmeijer      | Linear Algebra Methods for Tensor Networks  |
| 63 | PHYS | McKinley   | Veale           | ORCASat: Providing Precise Photometric Calibration for Ground-based Telescopes  |