

## GRADUATE STUDIES DAY AT A GLANCE

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### 9:15 Welcoming remarks

Deborah MacLellan, Dean of Science  
Christian Lacroix, VP Academic  
Robert Gilmour, VP Research/Grad Studies

### 9:30 Keynote speaker

Joseph Pawlik, University of North Carolina  
Wilmington: The chemical ecology of  
sponges on Caribbean reefs: How natural  
products shape natural systems

### 10:30 Coffee break and Poster display

#### 11:00 Oral session I 13:45 Oral session II Chair: H Lambe Chair: B Sheppard

Josh Slyzs  
Krista Gill  
Andrew Doiron  
Colin Stetson  
Luke Poirier  
Adam Proud

Amanda Sproule  
Michael Coffin  
Aisha Abdelghani  
Christian Agatemor  
Travis James  
Gillian Potter

### 12:45 Light lunch and Poster display

#### Poster session

Amani Abdelghani\*  
Matthew Boulter  
Ebtehal El-Ghezlani  
Hannah Gehrels  
Bastian Herzog\*\*  
Sean Landsman  
Julia McKenna  
Heidi O'Brien  
Tessa Roche  
Bettina Sommer\*\*

#### Poster session

Qammar Almas  
Laura Carvalho  
Justin Ferrish  
Daniel Gillespie  
Kyle Knysh  
Travis McIsaak  
Mark Nabbuurs  
Naomi A Robbins  
Ashok Somalraju  
Paula Tummon

\* Visiting PhD student

\*\* Postdoctoral Associate

### 15:35 Awards to best presentations and closing

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## STUDENT PRESENTATIONS (Alphabetical by first author)

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**Amani Abdelghani** (\*), Alaa Abd-El-Aziz & Jason Pearson: Studies on the aggregation-induced emission of synthesized novel dendrimers with chromophoric molecules

**Christian Agatemor** (PhD MMS), Nola Etkin & Alaa Abd-El-Aziz: Functional dendrimers from an Iron(II) sandwich complex

**Aisha Alkhnajari** (MSc ESC), B Fofana, K Samis, K Ghose, A Somalraju: Metagenomics of the buckwheat rhizosphere's microbial diversity in wireworm-infested and non-infested soils

**Qammar Almas** (PhD MMS) & Jason Pearson: Density functional theory benchmark for the structure and reactivity of frustrated Lewis Pairs

**Matthew Boulter** (MSc HUB) & Jamie Burr: Effects of repeated aerobic exercise bouts and Curcumin supplementation on arterial stiffening during recovery

**Laura Carvalho** (MSc HUB), Chelsea Sanderson, William Montelpare & Rebecca Reed-Jones: Defining postural control over first time trials of Nintendo Wii game play

**Michael Coffin** (PhD ESC), Cristina Pater, Simon Courtenay & Michael van den Heuvel: Effect of eutrophication on the invertebrates and water quality of Southern Gulf of St. Lawrence estuaries

**Andrew Doiron** (MSc ESC) & Adam Fenech: Using small Unmanned Aerial Systems (sUAS) to assess and visualize the impacts of climate change

**Ebtehal El-Ghezlani** (PhD MMS) & Alaa Abd-El-Aziz: Synthesis and characterization of some novel organoiron compounds

## STUDENT PRESENTATIONS (Alphabetical by first author)

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**Justin Ferrish** (MSc ESC) & Karen Samis: Identifying variation in salt tolerance between ecotypes of a coastal plant

**Hannah Gehrels** (MSc ESC), Jessica Willis, Andrey Malyshev & Pedro A Quijon: Habitat-mediated interactions between native mud crabs and invasive European green crabs

**Krista Gill** (PhD MMS), Fabrice Berrue & Russ Kerr: Discovery of cystargamide and cystargolides A and B from the Actinomycete, *Kitasatospora cystarginea*

**Daniel Gillespie** (MSc HUB), Katty Gotschall-Pass & Marva Sweeney-Nixon: Blueberry purée increases HDL-Cholesterol in rats

**Bastian Herzog** (\*\*), David Overy, Bradley Haltli & Russ Kerr: Feather biodegradation with Keratinases

**Travis James** (MSc ESC) & Michael van den Heuvel: Halibut (*Hyppoglossus hypoglossus*) in the Gulf of St. Lawrence

**Kyle Knysh** (PhD ESC), Michael van den Heuvel & Donna Giberson: Habitat changes affecting mayfly, stonefly and caddisfly species (Ephemeroptera, Plecoptera and Trichoptera) in Prince Edward Island pool springs

**Sean Landsman** (PhD ESC) & Michael van den Heuvel: Giving fish a helping hand: Evaluation of fish passage structures in Prince Edward Island rivers and streams

**Travis McIssak** (MSc HUB) & Dany MacDonald: Exploring the relationship between negative sport experiences and positive youth development

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## STUDENT PRESENTATIONS (Alphabetical by first author)

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**Julia McKenna** (MSc HUB) & William Montelpare: The stability and validity of HRV and CAS TEOAE in university aged individuals

**Mark H Nabuurs** (PhD MMS), MH Boyetchko, JL McCallum, AS Mills, T Zhou & C Kirby: Searching for biopesticides with bioautograph

**Heidi O'Brien** (MSc HUB) & William Montelpare: Analysis of past concussions and current health measures: Long term impacts of concussion on cognitive, emotion and general health scores in a cohort of adults age 40-65

**Luke Poirier** (PhD ESC), Lynn Symington, Jeff Davidson, Sophie St-Hilaire & Pedro Quijon: The European green crab: finding alternative uses for an invasive predator in Prince Edward Island

**Gillian Potter** (MSc HUB) & William Montelpare: Examining pain anxiety in young adult athletes

**Adam Proud** (PhD MMS) & Jason Pearson: The development of the localized pair model

**Naomi A Robbins** (MSc ESC), Y Jiang, J Nyiraneza, M van den Heuvel, Aaron Mills, C Noronha: The effects of buckwheat as a potato rotation crop on soil and water quality

**Tessa Roche** (MSc HUB) & William Montelpare: Assessment of balance behaviours, eye-movement, and attention in athletes: A step towards a more comprehensive concussion return-to-play protocol

**Josh Slyzs** (MSc HUB) & Jamie F Burr: The physiological effects of blood flow restricted muscle stimulation (arm and leg phases)

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## STUDENT PRESENTATIONS (Alphabetical by first author)

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**Ashok Somalraju** (MSc ESC), Aisha Alkhnajari, Kaushik Ghose, David Main & Bourlaye Fofana: Characterizing EMS-mutagenized pre-breeding potato lines using NGS and phenotyping

**Bettina Sommer** (\*\*), David Overy & Russ Kerr: Lipases from *Malassezia restricta* nucleotide sequence, recombinant expression and proof of activity of MrLip1 and MrLip4

**Amanda Sproule** (MSc MMS), Fabrice Berrue, Bradley Haltli & Russ Kerr: Co-culture mimic as a directed approach to the discovery of bioactive natural products

**Colin Stetson** (MSc HUB), Robert AR Hurta & Jason L McCallum: Demonstrated anti-cancer effects and chemical profiling of select fruit extracts

**Paula Tummon Flynn** (PhD ESC), David Cairns & Pedro Quijon: The history of Irish moss in Basin Head MPA and the potential role of the green crab in its decline

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**Thank you for participating!**

**For abstracts and details on our student research contributions, please follow the links at <http://www.upei.ca/science/graduate-programs>**

*Science Graduate Studies Committee*

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# 2015 *SCIENCE* GRADUATE STUDIES DAY

## PROGRAM



UNIVERSITY  
of Prince Edward  
ISLAND

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**JOIN US TO CELEBRATE OUR  
STUDENTS' RESEARCH**

**FRIDAY MAY 1<sup>st</sup>**

**McDougall Hall 243 &  
Schurman Market Square**

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