

Department of Biology Newsletter

Friday, November 10, 2017

UNIVERSITY OF VICTORIA

Lucianne Marshall Biology Graduate Student representative at INNOVATION.ca

Ocean Networks Canada and Foundation Canada for Innovation

Ocean Networks Canada's CEO Kate Moran hosted a visit from the new President and VP of the Canadian Foundation for Innovation (CFI), Dr. Roseann O'Reilly Runte and Pierre Normand along with the VP of research at UVic, Dr. David Castle. Biology Student Lucianne Marshall (MSc candidate in the Varela lab) was invited to participate in the meeting, as she is working alongside Ocean Networks Canada, to discuss some of her on-going work with automated cable observatories in the Arctic in parallel with Ocean Networks Canada's presentation of their current and future ocean research.



Photo (courtesy of Oceans Networks Canada) left-right: David Castle, Vice President Research, University of Victoria; Pierre Normand, Vice-President, External Relations and Communications. CFI; Kate Moran, President and CEO Ocean Networks Canada; Roseann O'Reilly Runte, CEO and President, CFI; and UVic Biology post graduate student Lucianne Marshall

LUCIANNE MAR-SHALL: GRAD REPRESENTATIVE AT INNOVATION, CA UPCOMING 1 SEMINARS 2 BIOLOGY 2

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WOMEN

IN SCIENCE SYMPOSIUM VICTORIA FORUM 5

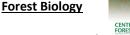
VOLUNTEER OPPORTUNITIES

Upcoming Seminars. Everyone Welcome! 2017-2018 Series

Forest Biology



Dr. Jen Walker Victoria, BC



Dr. Lacey Samuels Department of Botany, UBC

"Functional Drivers of Ectomycorrhizal Fungal Community Structure"

"TBA"

Biology

Dr. Lisa Reynolds Department of Biochemistry and Microbiology, UVic

"Modulation of host immunity by intestinal helminths and the bacterial microbiota"

Biology

Dr. Cara Haney

Department of Microbiology and Immunology, UBC

"Plant-associated microbiota evade host immunity to promote plant growth and disease resistance "

Friday, December 8, 2017

Wed, November 22, 2017 at 2:30 pm in CUN 146

Wed, November 29, 2017 at 2:30 pm in CUN 146

Friday, December 1, 2017 at 3:30 pm in MSB 150

Calendar

Important Dates: Monday–Wednesday Nov 13-15 Tuesday and Wednesday Nov 14&15 Wednesday, November 15	Reading Break (Except Faculty of Law) Fall Convocation Faculty of Graduate Studies deadline to apply to graduate Spring Convocation (students completing in
Thursday, November 30 Friday, December 1	the Fall term only) Last day of classes in the first term for Faculty of Law Senate meets. Last day of classes in first term except Faculty of Law and Faculty of Human and Social Development.
	National Day of Remembrance and Action on Violence Against Women. Classes and exams cancelled from 11:30 am—12:30 pm

Biology Announcements

Biology Publications

Sethuramanujam S, Yao X, deRosenroll G, Briggman KL, Field GD, Awatramani GB. "Silent" NMDA Synapses Enhance Motion Sensitivity in a Mature Retinal Circuit Journal: Neuron Date of Publication: October 26, 2017 DOI: <u>http://dx.doi.org/10.1016/j.neuron.2017.09.058</u>

http://www.cell.com/neuron/fulltext/S0896-6273(17)30927-3

Biology TA Postings

The TA postings for the Winter session 2018 are available on the Biology website: <u>Job Opportunities for Lab Instructors</u> The closing date for the applications is Sunday, November 19, 2017.

CO-OP Online Career Fair

Online Career Fair for International Students November 16, 2017 9:00 am to 4:00 pm



Chat online with employers recruiting for diverse skills sets. Learn about full-time, part-time and co-op opportunities. Participate online—attend the fair at school, the library or even at home! Register early at <u>UVic Co-op Career Online Fair</u>



If you have stories or announcements that would like to share for the Biology newsletter, please email Chantal Laliberté at biology@uvic.ca or Laura Alcaraz-Sehn at bioclerk@uvic.ca.

Biology Graduate Student Symposium

The 29th Annual Biology Graduate Symposium

The annual Biology Graduate Symposium will be held on November 14 and 15, 2017 in the David Strong Building. This event provides an opportunity for UVic faculty, students, researchers from other organizations and interested members of the public to learn about the wide variety of research projects being conducted by Biology graduate students. Students will present research from diverse fields including Marine Biology, Forest Biology, Ecology & Evolution, Neuroscience and Cell & Molecular Biology. Free admission. Refreshments provided.

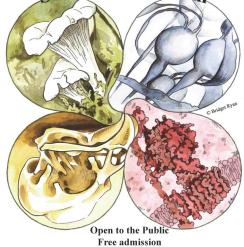
List of presentations

Time	Chair	Name	Supervisor	Title
8:45-9:00	Coffee		•	
9:00	ŝ	Dr. B. Hawkins	Opening Remarks	
9:05	wki	Graeme Keais	Dr. S. Perlman	Maintenance of an ancient selfish X chromosome in a mushroom-feeding Drosophila species
9:20	Ę	Caitlin Curtis	Dr. S. Perlman	The molecular basis of an extraordinary sex-ratio distortion in booklice
9:35	8	David Minkley	Dr. B. Koop	Expansion of repeated DNA has differentially shaped the genomes of salmonids
9:50	õ	Nova Hanson	Dr. L. Page	Development and evolution of a derived feeding system in Amphissa columbiana
10:05-10:25	Coffee			
10:25	5	Gerry Gourlay	Dr. P. Constabel & Dr. B. Hawkins	Can condensed tannins act as in vivo antioxidants and protect poplar against oxidative stress
10:40	sus	Kennedy Boateng	Dr. B. Hawkins & Dr. P. Constabel	Seasonal variation and wounding response in foliar oregonin in red alder (Alnus rubra Bong.
10:55	Ϋ́,	Jessica Wyatt	Dr. J. Ehlting	Assessing severity of Swiss Needle Cast in a British Columbia Douglas-fir breeding population
11:10	Nova	Marie Vance	Dr. P. von Aderkas & Dr. B. Hawkins	Assessing range-wide genetic structure in subalpine larch (Larix lyallii)
11:25	2	Yuriko Carrington	Dr. J. Ehlting & Dr. P. Constabel	The functions of quinate dehydrogenase genes in plants
11:40-12:40	Lunch			
12:40	Cowan	Kieran Cox	Dr. F. Juanes	Intertidal resource use over millennia alters marine biodiversity
12:55	ő	Morgan Black	Dr. F. Juanes	The effects of First Nation's clam gardens on fish and mobile invertebrate communities
13:10	E	Piata Marques	Dr. R. El-Sabaawi	Effects of urbanization on guppy life history traits
13:25	alcol	Therese Frauendorf	Dr. R. El-Sabaawi	Climate change and exotic species affect tropical stream nitrogen dynamics
13:40	Σ	Danielle Claar	Dr. J. Baum	Symbiotic diversity and coral resilience during an extreme ocean warming event
13:55-14:15	Coffee			
14:15		Jacob Weil	Dr. F. Juanes	Fine-scale variability in the energy density of prey for juvenile Chinook salmon
14:30	Yuriko Carrington	Monique Raap	Dr. B. Koop & Dr. H. Gurney-Smith	Impacts of habitat alteration and microplastic contamination on shellfish physiology
14:45	Yuriko rringto	Malcolm Cowan	Dr. W. Hintz	Summer mortality of Pacific oysters in Baynes Sound
15:00	20	Lia Chalifour	Dr. J. Baum	Evaluating the use of estuarine habitats by fish communities in the Fraser River estuary
15:15		Jennifer Magel	Dr. J. Baum	Impacts of mass coral bleaching events on coral reef structural complexity
15:30-15:45	Coffee			
15:45	Magel	Haewon Shin	Dr. S. Perlman	Interactions between microbiota composition and parasite infections in wild flies
16:00		Eric Rondeau	Dr. B. Koop	Genomic diversity in rainbow trout
16:15	E	Cameron Freshwater	Dr. F. Juanes & Dr. M. Trudel	Individual variation and population-specific strategies shape migration phenologies
16:30	Jen	Will Duguid	Dr. F. Juanes	Northern anchovy in the Salish Sea
16:45		Garth Covernton	Dr. J. Dower & Dr. S. Dudas	Microplastics in BC bivalves

Wednesday		November 15, 2017		
Time	Chair	Name	Supervisor	Title
8:45-9:00	Coffee			
9:00	~	Michael Minkley	Dr. P. Walter & Dr. R. Nashmi	Systemic biomarkers of disease burden in neurodegenerative disorders
9:15	urla	Rhea Ashmead	Dr. F. Choy	Purification of human recombinant Naglu and uptake studies with MPS IIIB fibroblasts
9:30	000	Laura Hanson	Dr. G. Awatramani	Silent synapses in the mature DS ganglion cells in the mouse retina
9:45		Anastasia Litke	Dr. R. Chow	Investigating the pathogenicity of VSX1 P247R and its role in corneal dystrophies
10:00-10:25	Coffee			
10:25	llo	Amanda McLaughlin	Dr. J. Taylor	Fine scale correlations in coupled retinal ganglion cells
10:40	senr	Farnoosh Farhoomand	Dr. K. Delaney	Long term cortical plasticity in male Rett mice model
10:55	Ros	Chloe Christensen	Dr. F. Choy	Gene-editing of NAGLU mutations in mucopolysaccharidosis IIIB patient-derived iPSCs
11:10	de	Bridget Ryan	Dr. R. Chow	MicroRNA regulation of Pax6 expression
11:25-13:00	Lunch			POSTER SESSION (see below)
13:00	ŝ	Kyle Beer	Dr. T. Lacourse	Peatland carbon accumulation over the last 10,000 yr on central Vancouver Island
13:15	Ŧ	Matthew Adeleye	Dr. T. Lacourse	Changes in forest composition on central Vancouver Island over the last 14,000 years
13:30	B	Rande Kanne	Dr. G. Allen	The phylogenetic relationships and phylogeographic patterns of Garry oak
13:45	Ϋ́α	Jillian McAllister	Dr. P. Gregory	Seasonal movements and hibernation ecology of common gartersnakes
14:00-14:25	Coffee			
14:25		Amy Teffer	Dr. F. Juanes & Dr. S. Hinch	Relationships among stressors and infections affect salmon survival and migration success
14:40	arela	Geoffrey Osgood	Dr. J. Baum & M. McCord	Shark community composition and abundance in a South African warm-temperate bay
14:55	>.<	Mauricio Carrasquilla	Dr. F. Juanes	Yelloweye and Quillback association with benthic habitat
15:10	ъ. Г	Rhonda Reidy	Dr. F. Juanes & Dr. L. Cowen	Investigating the foraging ecology of humpback whales in British Columbia
15:25		Dr. D. Varela	Closing Remarks	

Wednesday		November 15, 2017	Poster session		
Time		Name	Supervisor	Title	
11:30-12:15					
1		Juan Aldana	Dr. B. Hawkins & Dr. J. Russell	Histological, chemical and gene expression aspects of the resistance to CLB in Thuja spp.	
2	SB	Geoff deRosenroll	Dr. G. Awatramani	Context-dependent scaling by NMDARs in direction-selective ganglion cells	
3	of C	Katie Harms	Dr. L. Page	Developmental modularity of the foregut in a gastropod mollusc: Evalea tenuisculpta	
4	ver	Dawei Ma	Dr. P. Constabel	Characterization of (-) condensed tannin and flavonoid MYB transcription factors in poplar	
5	Fo	Luci Marshall	Dr. D. Varela	Investigating the meltdown in the coastal Arctic: phytoplankton and environmental dynamic	
6		Deb Wertman	Dr. S. Perlman & Dr. K. Bleiker	Photosensitivity in developing mountain pine beetle (Dendroctonus ponderosae)	

The University of Victoria 29th Annual Biology Graduate Student Symposium



November 14th & 15th, 2017 · 9:00 am – 5:00 pm David Strong Building · Room C103

Announcements

United Way Greater Victoria Events

Show your support for United Way at these UVic events:

Book Sale—ongoing daily Bookstore Foyer

Holiday Artisan Market—November 21, 10:00 am to 4:00 pm University Centre

See all United Way events

Café Scientifique

The Café Scientifique series is an informal series of talks given in a relaxed setting such as a café. These talks are designed to engage the public in learning about recent research in science. The talks, which are given by experts in the field, provide an opportunity to stimulate discussion around some of the most exciting topics in modern science.

Dr. Rachel Boschen, Department of Biology—November 21 "All that glitters is not gold: deep–sea mining and untold biological wealth"

Dr. Olav Krigolson, School of Exercise Science, Physical and Health Education— November 28 "How we learn: Insights from Neuroscience Research"

Location: Hermann's Jazz Club, 753 View Street Start time: 6:30 pm Doors open at 4:30 pm. A UVic representative will be available at 5:45 pm. For more information visit Centre for Biomedical Research

UVic Women in Science

Women in Science Symposium November 30, 2017 10:00 am to 4:00 pm Medical Sciences Building

As one of the many steps towards implementing our initiative, the 2017 UVic WiS STEM research symposium will provide an opportunity for women from different STEM fields to hone their presentations skills, connect with one another through their passion for science, and engage with the greater Victoria community to highlight the contributions of women to STEM fields here at UVic. It will feature a few key note presentations, as well as poster presentations from mainly graduate and undergraduate students at UVic.

For more information about the symposium, contact Lauren McMillan at: Imcmilla@uvic.ca or communication.uvic.wis@gmail.com Visit: UVic Women in Science





United Way Greater Victoria



Victoria Forum

Ideas for a better world

Canada @150. Promoting Diversity and Inclusion. November 17– 19, 2017 The University of Victoria and Global Affairs Canada are hosting the inaugural Victoria forum on November 17-19, bringing together Canadian and international participants to discuss diversity and inclusion in the 21st century.

In these divisive times, with the emergence of populist agendas worldwide, in the face of declining trust in our key institutions, there is a need to change the channel and focus on the benefits of diversity and inclusion. The Victoria forum is about crafting inclusive spaces and developing innovative solutions to address current environmental, economic, and social challenges, and chart a way towards a more inclusive world.

Over 400 participants and more than 3 dynamic speakers from Canada and around the world and engage in the dialogue in over 25 unique sessions. Cultural exhibitions, youth program, outreach events and social program.

For more in formation click on Victoria Forum

Volunteer Opportunities

Marine Monitoring Project

Gather Scientific Data in Baja California Sur. Volunteer with Raen Adventures and gather much-needed data in the Loreto area of the Sea of Cortez, Baja California Sur! Volunteers will work closely with our Mexico-based conservation partner GEA (Grupos Ecologistas Antares) with submarine and open water transects, plankton analysis, and behavioural observations of local cetaceans including blue whales, sperm whales, orcas and more. Optional visit to Magdalena Bay, where gray whales and human beings have forged a unique bond, and whales seek out human visitors for a good scratch! Additional species of interest include marine turtles, shorebirds, and sharks.

This program aims to cover a variety of open-water and island sites, weather permitting, using a small vessel (panga) enabling our team to move between open sea and shallow, coastal areas. Participants may be involved in defining transect sets using charts, maps, GPS and satellite imagery. Novel findings will be added to an ongoing species survey catalog.

Cost is \$950/person for the full 9-day session; includes food, camping accommodations, and research and safety equipment. February 11-19, 2018

Interested? Contact: sabrina@ravenadventures.com Find us at: <u>Raven Adventures/ Marine monitoring project</u>

Mangrove Monitoring Project

Kayak through Mangrove Forests in Baja California Sur. This program joins an off-the beaten-track camping experience with fieldwork skill-building. Camp on an uninhabited island and kayak through Baja's mangrove forest. Learn and apply fieldwork techniques, conduct coastal surveys, and collect specimens for the local museum. Identify a wide array of shorebirds, unearth snakes, and observe dolphins just off shore. Depending on yearly migration patterns, an optional visit to Magdalena Bay is possible. Here, gray whales and human beings have forged a unique bond, and whales stopped over on their migration route seek out human visitors for a good scratch!

Cost is \$950/ person for the full 9-day session; includes food, camping accommodations, and research and safety equipment. December 29, 2017 to January 6, 2018

Interested? Please contact: sabrina@ravenadventures.com Find us at: <u>Raven Adventures/ Mangrove monitoring project</u>

Editors:

L. Alcaraz-Sehn, C. Laliberté

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