

**TWENTY THIRD ANNUAL GRADUATE STUDIES & RESEARCH DAYS**  
**LECTURE THEATRE "A"**  
**ATLANTIC VETERINARY COLLEGE**  
**THURSDAY AND FRIDAY, MAY 14 AND 15, 2015**

**DAY 1, THURSDAY, MAY 14**

9:00 a.m.	Opening Ceremonies and R. G. Thomson Lecture Welcome from the Atlantic Veterinary College – Dr. Greg Keefe, Dean, AVC Greetings from the University – Dr. Robert Gilmour, Vice President, Research Greetings from the Province – Hon. Allen Roach, Minister of Innovation & Advanced Learning Introduction of Professor Chris Secombes, Dr. Shona Whyte
9:20 a.m.	R. G. Thomson Lecture “How complex is the immune system of fish: Lessons from analysis of the cytokine network” Professor Chris Secombes, Head of the Scottish Fish Immunology Research Centre, Aberdeen University, Scotland

10:30-10:45 Refreshments

**Program**

Session One		Moderator – Shauna Richards
TIME	TITLE	SPEAKER
10:45-11:00	Combinatorial metabolomics and molecular methods for identification of halogenated natural products from marine sponge-associated bacteria	Stacey Goldberg
11:00-11:15	Natural Product Potential of Bacteria Isolated from Caribbean Octocorals	Erin McCauley
11:15-11:30	Using microbial signals to stimulate natural product expression.	Nadia L. Prigoda-Lee
11:30-11:45	Discovering UV absorbing metabolites produced by extremophiles living in Arctic sea ice melt pools	Amanda Thomas-Sheppard
11:45-12:00	Characterization of tetramic acid containing natural products from <i>Tolypocladium</i> species isolated from Frobisher Bay	Alyssa Grunwald
12:00-1:00	Lunch, AVC Learning Commons	
1:00-1:15	Novel mitochondrial functional alterations induced by zinc and calcium exposure	Mahmoud Sharaf
1:15-1:30	Epigenetic characterization of the effect of folic acid on chicken B cell receptors methylation patterns and mRNA expression	Ori Elad
1:30-1:45	Biomarker profiling of serum and synovial fluid in canine osteoarthritis using Fourier transform infrared spectroscopy	Sarah Malek
Session Two		Moderator - Erin McCauley
1:45-2:00	Improved detection of a fish virus with a segmented genome by real-time RT-qPCR	Jocelyn Pérez-Lazo
2:00-2:15	Effect of water temperature on the immune response of the American Lobster ( <i>Homarus americanus</i> ) and the pathogenicity of White Spot Syndrome Virus	Louise Roux
2:15-2:30	Refreshments	

2:30-2:45	Gene expression profiles of free-living copepodid and parasitic pre-adult sea lice ( <i>Lepeophtheirus salmonis</i> )	Jordan Poley
2:45-3:00	Molecular and Histopathological Disruption of Wound Healing in an Ectoparasite Model	Michelle MacDonald
3:00-3:15	Effects of Domoic Acid on Alpha-7 Nicotinic Acetylcholine Receptors in Organotypic Hippocampal Slice Cultures	Jessica Hawkins
3:15-3:30	Ischemic lesions in the prefrontal cortex alter aspects of ultrasonic vocalizations during cognitive testing in the rat	Bob Deziel
3:30-3:45	Interactions between NMDA and nicotinic receptor ligands in organotypic hippocampal slice cultures	Denise Happ
3:45-4:00	The Role of Sox4 in Kidney Development	Michel Arsenault

## **DAY 2 FRIDAY, MAY 15**

9:00-9:45	<p>Zoetis Lecture  “Multi-pronged approach to the sea lice problem: Or is it just wanting to work with good people?”  Dr. Mark Fast, Elanco Research Chair in Fish Health  Department of Pathology and Microbiology, AVC</p>
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Session Three		Moderator – Louise-Marie Roux
9:45-10:00	Case study of supply chain management of transported live freshwater fish in China: aquatic epidemiology meets social science	Beibei Jia
10:00-10:15	Childhood asthma: effects of diet, body weight and school nutrition policies.	Teri McComber
10:15-10:30	Communication Skills Assessment and Training in the Atlantic Johnes Disease Initiative	Karen MacDonald-Phillips
10:30-10:45	Refreshments	
10:45-11:00	Randomized clinical trial on impacts of dairy meal feeding interventions on early lactation milk production in smallholder dairy farms of Central Kenya	Shauna Richards
11:00-11:15	Prevalence and antimicrobial susceptibility of <i>Salmonella enterica</i> and extended spectrum cephalosporin resistant <i>Escherichia coli</i> recovered from Holstein heifer calves from New Brunswick	Babafela Awosile
11:15-11:30	Treatment of subclinical <i>Streptococcus agalactiae</i> mastitis in dairy cows in Colombia.	Julian Reyes
11:30-11:45	Carryover of Bovine Leukemia Virus Antibodies in Samples from Shared Milk Meters	Omid Nekouei
11:45-12:00	Evaluation of Heart Girth Tape to Estimate Body Weight in Preweaning Dairy Calves	Ibrahim Elsohaby
12:00-1:00	Lunch	
Session Four		Moderator – Michel Arsenault
1:00-1:15	Antimicrobial susceptibility patterns of environmental streptococci recovered from bovine milk samples in the Maritime Provinces of Canada	Marguerite Cameron
1:15-1:30	Comparative analysis of the host-parasite interaction between resistant (coho, <i>Oncorhynchus kisutch</i> ) and susceptible (Atlantic, <i>Salmo salar</i> ) salmon during infection with the salmon louse ( <i>Lepeophtheirus salmonis</i> )	Laura Braden
1:30-1:45	Mortality in finfish marine aquaculture in Northern Vietnam	Annette Boerlage

## Awards Reception

1:45	2014 G. Murray and Hazel Hagerman Scholarships OGS Award of Distinction Graduate Student Zoetis Award Dr. Ian Dohoo Award Dr. E. Errol Hancock Scholarship Dr. Ray Long Travel Award Dr. Basil Ikede Award in Diagnostic Veterinary Sciences John & Carol MacLeod Award Special Award in Aquaculture Graduate Student Presentation Awards Post-doc Presentation Award Closing Remarks, Dr. Henrik Stryhn, Acting Coordinator, Graduate Studies and Research	AVC Learning Commons
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