



**Pathology & Microbiology Newsletter**  
**Bi-monthly News Bulletin**  
**Atlantic Veterinary College**  
**University of Prince Edward Island**  
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**UPEI**  
UNIVERSITY  
of Prince Edward  
**ISLAND**

***Aleutian Mink Disease Virus in Wild Mink of Prince Edward Island***



For the second year in a row, **Dr. Heather Fenton** was an invited speaker at the annual Prince Edward Island Trapper's Association Meeting, which has taken place every winter since 1970. She gave a presentation entitled "Aleutian mink disease virus in wild mink on Prince Edward Island" which included an interactive demonstration of the difference between infection and disease that required audience participation. The association is a partner in a research project looking at infection of wild Prince Edward Island mink with Aleutian disease virus that is funded through the Prince Edward Island Wildlife Conservation Fund.

***PowerPoint Presentation: Advances in Aleutian Mink Disease Control***

**Dr. Arnost Cepica's** PowerPoint presentation with sound, entitled "Advances in Aleutian Mink Disease Control", was given at the NFJ workshop of World Mink Veterinarians (Amsterdam, January 31st, 2013) by attendee Dr. D. MacHattie, a mink practitioner from Nova Scotia. The presentation was subsequently forwarded to veterinarians registered as mink veterinarians in all the countries where mink is farmed. Dr. Cepica was awarded a "Certificate of Recognition" by the Canadian Food Inspection Agency for his contribution to the development of the National Biosecurity Standard for the Mink Industry.

***Dr. Dania Villarnovo Honoured with Share the Future and C.L. Davis Foundation Awards***

**Dr. Dania Villarnovo** was presented with 2 awards at the annual conference of the American College of Veterinary Pathologist/American Society for Veterinary Clinical Pathology in Seattle in early December, 2012. Along with 4 other clinical pathology trainees, Dr. Villarnovo received a Share

The Future Travel Award, given to a trainee who is presenting a talk at the conference. Dr. Villarnovo also received the Charles Louis Davis DVM Foundation Student Scholarship Award. Dr. Villarnovo, a 2nd year clinical pathology resident/MVSc candidate, was nominated by the department anatomic and clinical pathologists for the C.L. Davis award in recognition of her hard work and diagnostic skills. She is originally from Miami, Florida, and is a 2010 DVM graduate of University of California, Davis; she began her program in the department in August 2011.



Dr. Villarnovo (far right) receiving her Share the Future Award along with trainees from Purdue and Cornell Universities, the Royal Veterinary College and the University of Florida.

### *Dr. Fany Marron New Resident in Anatomic Pathology*



**Dr. Fany Marron** has just started her MVSc in Anatomic Pathology under the supervision of **Drs. Shannon Martinson** and **Alfonso Lopez**. Fany is originally from Mexico City where she obtained her veterinary degree at the National Autonomous University of Mexico (UNAM). In 2008, Fany spent three months at the AVC doing her DVM Honours thesis with canine oral tumors and then returned to UNAM to take additional training in pathology. After graduation, she worked two years in a Level 2 laboratory of the Mexican Federal Government. Fany's aim is to become an ACVP Diplomate, and will work towards this goal through the MVSc-Residency program at the AVC. According to Fany, after considering options in North American veterinary colleges, she opted for the AVC because she had enjoyed her previous stay as an exchange student, and because of the reputation of the training program and the success rate of graduates passing the ACVP Board Certifying examination.

### *Mirelle Geervliet is Visiting from Wageningen University in The Netherlands*

**Mirelle Geervliet** is visiting from Wageningen University in the Netherlands. She is a student from Van Hall Larenstein which is part of the Wageningen University. As part of an internship required by her Applied Animal Science Program, she is working with the Canadian Cooperative Wildlife Health Centre, Atlantic Region, with a primary focus on Bat White Nose Syndrome (BWNS). Specifically, Mirelle is participating in the development of a national position to coordinate the management of BWNS in Canadian bat populations. She will be in our department February 11 - July 5, 2013, so be sure to say hello.



## Recent Research Grants and Contracts

The Sir James Dunn Animal Welfare Centre has awarded \$59,590 funding to Dr. J McClure, Matthew Saab (MSc student), Health Management, and **Dr. Anne Muckle**, Pathology and Microbiology, for their research project "Comparing culture methodology for MRSP from unhealthy dogs."

## Recent Publications

Munyaka P, Tactaman G, Jing M, O K, House JD, St. Paul M, Sharif S, and Rodriguez-Lecompte JC. Response of old laying hens to an *Escherichia coli* lipopolysaccharide challenge when fed diets with or without supplemental folic acid. *Poult Sci.* 2013;92:105-113.

Kim WK, Patterson PH, Rodriguez Lecompte JC, and Ricke SC. The potential to reduce poultry nitrogen emissions with specific uricase egg yolk feed grade antibodies. *World's Poultry Science Journal* 2013;69: 45-56.

Igboeli OO, Purcell, SL, Wotton, H, Poley J, Burka JF, Fast MD. Immunostimulation of *Salmo salar* L., and its effect on *Lepeophtheirus salmonis* (Kroyer) P-glycoprotein mRNA expression following subsequent emamectin benzoate exposure. *Journal of Fish Diseases* 2013; 1-10.

Clark KF, Acorn AR, Greenwood SJ. Differential expression of American lobster (*Homarus americanus*) immune related genes during infection of *Aerococcus viridans* var. *homari*, the causative agent of Gaffkemia. *Journal of Invertebrate Pathology* 2013; 112:192-202.

Poley J, Purcell SL, Igboeli OO, Donkin A, Wotton H, Fast MD. Combinatorial effects of administration of immunostimulatory compounds in feed and follow-up administration of triple-dose SLICE (emamectin benzoate) on Atlantic salmon, *Salmo salar* L., infection with *Lepeophtheirus salmonis*. *Journal of Fish Diseases*.2013;1-11.

Doyle A, Lopez A, Pack LA, Muckle A. *Candida* osteomyelitis in a gelding. *Can Vet J* 2013;54: 176-177.

Siah A, McKenna P. Rapid detection assay for the invasive vase tunicate, *Ciona intestinalis*, using loop mediated isothermal amplification combined with lateral flow dipstick. *Management and Biological Invasions* 2013;4:81-86.

Kibenge, F.S.B., Godoy, M.G., and Kibenge, M.J.T. 2012. Laboratory issues – Aquatic animal disease, diagnosis, and global trends. Proceedings, OIE Global Conference on Aquatic Animal Health. Aquatic Animal Health Programmes: their benefits for global food security, Panama, June 28-30, 2011. Pages 59-67.

[http://www.oie.int/eng/A\\_aquatic/en\\_presentations.htm](http://www.oie.int/eng/A_aquatic/en_presentations.htm)

## Important Deadlines

**Dobbin Scholarships 2013-2014.** [Ireland-Canada University Foundation.](#)

NSERC Deadlines: [Web site.](#)

AVC 2013 Graduate Student Scholarship and DVM Program Award; application must be submitted to the GS&R Office by 4 p.m. on Monday, April 8, 2013:

[http://avc.upei.ca/files/avc/call\\_1.pdf](http://avc.upei.ca/files/avc/call_1.pdf)

<http://avc.upei.ca/files/avc/Guidelines.pdf>

The John and Carol MacLeod Award for Research Communication Excellence; application must be submitted to the GS&R Office by 4 p.m. on Friday, March 15, 2013.

Pfizer Award For Research Excellence; nominations must be submitted to the GS&R Office by 4 p.m. on Friday,

March 15, 2013.

Pfizer Student Award; nominations must be submitted to the GS&R Office by 4 p.m. on Friday, March 15, 2013.

The Dr. Basil Ikede Graduate Award in Diagnostic Veterinary Sciences; application must be submitted to the GS&R Office by 4 p.m. on Friday, March 15, 2013.

The Dr. Errol E. Hancock Scholarship; application must be submitted to the GS&R Office by 4 p.m. on Friday, March 15, 2013.

The "Dr. Ray Long Award"; application must be submitted to the GS&R Office by 4 p.m. on Friday, March 15, 2013.

The Dr. Douglas W. Ehresmann Graduate Award in virology; nominations must be submitted to the GS&R Office by 4 p.m. on Friday, March 15, 2013.

GSR Days May 16-17, 2013: Abstract submission deadline is March 15, 2013.

UPEI FA 2012-\*2013 Merit Awards for Scholarly Achievement, application deadline is March 11, 2013, at Faculty Association Office, Room 315, Main Building: <http://www.upeifa.org>

### *Departmental Seminars for November*

Alyssa Grunwald	Establishment of a microbial library for natural product discovery from arctic sediment	March 12	Biomedical Sciences
Jordan Poley	Molecular pathways involved in sea lice ( <i>Lepeophtheirus salmonis</i> ) resistance to chemotherapeutants		Pathology Microbiology
Gailene Tobin	The Effects of Interleukin18 on Natural Killer Cell Mediated Cytotoxicity in the Development and Progression of Breast Cancer	March 19	Biomedical Sciences
Xiafeng Wang	n-3 polyunsaturated fatty acid (PUFA) disruption of FcεRI aggregation in lipid rafts inhibits mast cell activation	March 26	Biomedical Sciences
Heather Wotton	Effect of in vitro exposure of an anti-attachment compound on <i>Lepeophtheirus salmonis</i> gene expression	April 2	Pathology Microbiology
Bob Deziel	The effects of ischemic lesions in the prefrontal cortex on cognition in the rat	April 9	Biomedical Sciences
Brad Scott	Ligand-receptor characterization of a novel androgen receptor in three-spined stickleback	April 16	Biomedical Sciences
Carlos Lopez-Mendez	Renal histopathology in <i>Sox4</i> and <i>Wt1</i> Knockout mice - A 13 month study	April 23	Pathology Microbiology
Sarah McConnachie	Environmental persistence of <i>Loma salmonae</i> spores within integrated multi-trophic aquaculture	April 30	Pathology Microbiology
Stacey Goldberg	A molecular approach to identify the origin of antimicrobial bromotyrosine-like natural products	May 7	Biomedical Sciences

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**For comments and suggestions please contact us by e-mail:**

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