



Pathology & Microbiology Newsletter
Bi-monthly News Bulletin
Atlantic Veterinary College
University of Prince Edward Island
Issue 29, March - April, 2013



Dr. Chelsea Martin Joins the Department of Pathology and Microbiology



We welcome **Dr. Chelsea Martin**, who has joined the Department as an Assistant Professor in Anatomic Pathology. She is a DVM graduate from the AVC Class of 1999. Following 5 years of mixed animal practice, Dr. Martin undertook graduate studies at The Ohio State University where she completed her PhD in Experimental Pathobiology and her residency in Anatomic Pathology in the Department of Veterinary Biosciences in 2010. Dr. Martin has been a Postdoctoral Fellow at the Comprehensive Cancer Center at The Ohio State University, Columbus, Ohio, for the past 2 years. Dr. Martin's research interests include mechanisms of cancer invasion into bone, therapeutic targets for the treatment of cancer using unique *in vitro* and *in vivo* models, and comparative pathology of mouse models of human cancer. Her current research focuses on therapeutic strategies for the treatment of invasive oral squamous cell carcinoma.

Jordan Poley Receives Two Prestigious Awards

Jordan Poley, an MSc student in **Dr. Mark Fast's** laboratory recently won the Best overall presentation at the Science Atlantic Conference - Fisheries and Aquaculture Section, held at Acadia University (March 15-17). Jordan was also recently awarded a MITACS graduate student internship support for 1 year, valued at \$15,000, from the University of British Columbia. Jordan is currently studying mechanisms of drug resistance in sea lice against commonly used treatments in aquaculture under the supervision of Dr. Mark Fast. This work is also supported by a Novartis Animal Health AIF with ACOA.



Successful Completion of OIE Laboratory Twinning Project



Photo (L-to-R): Dr. Sergio Marshall, Dr. Claudio Elórtegui, Dr. Fred Kibenge, Dr. Alicia Gallardo, and Dr. Juan Luis Ansoleaga.

Dr. Fred Kibenge travelled to Curauma, Chile, from April 13 to 19, 2013, to complete work and to participate in the closing ceremony of the OIE Laboratory Twinning Project between the OIE Reference Laboratory for ISA @ AVC (the Parent Laboratory) and the Pontificia Universidad Católica de Valparaíso (PUCV) in Chile. The two-year twinning project, which is titled "Building capacity for improved diagnosis and control of ISA in Chile", was funded by the World Organization for Animal Health (OIE). There is now a fully functional diagnostic virology laboratory at PUCV that is supporting the efforts of Sernapesca to prevent, monitor, and control the expansion of ISA virus in the Southern hemisphere, based on OIE International Standards. Dr. Fred Kibenge attended the closing ceremony held at the Curauma campus of PUCV on April 19, 2013. Representing Chile at the closing ceremony were Dr. Sergio Marshall, Head of the PUCV Laboratory; Dr. Claudio Elórtegui, Rector of PUCV; Dr. Juan Luis Ansoleaga, National Director of Sernapesca (National Fisheries Service, Chile); Dr. José Miguel Burgos, Undersecretariat of Fisheries and Aquaculture (Subpesca); Dr. German Churches, National Deputy Aquaculture, Sernapesca; Dr. Alicia Gallardo, Head of the Aquaculture Unit, Sernapesca, and Rolando Chamy, Director of Curauma Biotechnology Core (NBC).

Round of Discussion on Infectious Salmon Anemia (ISA) in Chile and the World



Dr. Fred Kibenge travelled to Puerto Montt, Chile, from April 19 to 22, 2013, to participate in scientific meetings at the invitation of the Center of Applied Biological Research (CIBA) and the ETECMA Laboratory. A workshop titled "Round of Discussion: Infectious Salmon Anemia (ISA) in Chile and the World" was held at the Hotel Caesar Business of Puerto Montt, Chile, on April 22, 2013, for aquaculture veterinarians and farm managers. Dr. Kibenge, Dr. Marcos Godoy, General Technical Manager of CIBA and ETECMA, and Dr. Alicia Gallardo, Head of the Aquaculture Unit, Sernapesca, presented at the workshop (<http://www.aqua.cl/noticias/index.php?doc=58373>).

Dr. Fred Kibenge on tour of the ETECMA Laboratory in Puerto Montt, Chile (looking at four LightCycler® 480 machines running at full capacity. Each machine uses a 96-well plate for real-time PCR. ETECMA on average tests 300 fish samples/day, with a turnaround time of 24 hours).

Faculty Recognition

The annual dinner and gala event to recognize FA Members for their accomplishments and milestones takes place Monday, May 6, 2013, beginning at 7:00 p.m. at the Wanda Wyatt Dining Hall (with a reception at 6:30

p.m.).

Congratulations to **Dr. Rick Cawthorn** who is retiring after 27 years of service at AVC-UPEI, and to **Drs. Paul Hanna, Barb Horney and Alfonso Lopez** who will be recognized during this gala event for 25 years of work at AVC-UPEI.

Visiting Veterinary Student from UC Davis



The department welcomed Mr. Wilson Yau, a 4th year veterinary student from the University of California-Davis, as a participant in the recent Block N Diagnostic Services (VPM450) rotation. Wilson, shown here in his graduation photo from UC Davis, wished to expand his diagnostic training by experiencing opportunities at other veterinary schools. To that end, he spent time at Texas A&M University and The Ohio State University as well as coming to UPEI. The AVC was recommended to Wilson by one of his clinical pathology instructors at UC Davis, Dr. Sean Owens. Although the weather at the time of Wilson's visit did not show off PEI at its finest, he enjoyed his time in the department. He will be experiencing much warmer weather as he embarks on an anatomic pathology residency this summer at the University of Georgia.

Summer Students

Summer Students in Pathology & Microbiology, May 6 - August 23, 2013:

1. Nancy Brochu (Merial Scholarship) will be working with **Dr. Pierre-Yves Daoust**
2. Azureen Erdman (NSERC Discovery Grant) will be working with **Dr. Fred Kibenge**
3. Kaitlin Fitzpatrick (Merial Scholarship) will be working with **Dr. Mark Fast**
4. Zong (Robert) Yang Gao (NSERC-USRA) will be working with **Dr. Dave Speare**
5. Nolan Phillips (Novartis Research Chair) will be working with **Dr. Mark Fast**
6. Charlotte Ramey (Merial Scholarship) will be working with **Drs. Jeff Lewis, Dave Groman, Anne Muckle** and Sophie St. Hilaire (Health Management)
7. Jessica Rock (ACOA-AIF) will be working with **Dr. Mark Fast**

Recent Publications

Fernandez NJ, Hecker KG, Gilroy CV, Warren AL, Léguillette R. Reliability of 400-cell and 5-field leukocyte differential counts for equine bronchoalveolar lavage fluid. *Veterinary Clinical Pathology* 2013;42:92-98.

O'Neil E, Burton S, Horney B, MacKenzie A. Comparison of white and red blood cell estimates in urine sediment with hemocytometer and automated counts in dogs and cats. *Veterinary Clinical Pathology* 2013; 42:78-84.

Dawson SD, Miller T, Goddard SF, Miller LM. Impact of outcome-based assessment on student learning and faculty instructional practices. 2013: *JVME*; pg 1-11 (On-line article).

Tanguy M, McKenna P, Gauthier-Clerc S, Pellerin J, Danger JM, Siah A. Functional and molecular responses in *Mytilus edulis* hemocytes exposed to bacteria, *Vibrio splendidus*. *Developmental and Comparative Immunology* 2013; 39: 419-429.

Important Deadlines

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

[NSERC](#)

[CIHR](#) Funding Opportunities:

Fraser Clark (PhD candidate), Thesis defense July 19, 2013.

Innovation PEI Call for Proposals: Pilot and Discovery Fund & Development and Commercialization Fund 2013. UPEI deadline for applicants seeking review and feedback: June 17, 2013; UPEI signature deadline: June 26, 2013; Application deadline: June 28, 2013 at NOON

Innovation PEI Graduate Student and Post-Doctoral Fellowship Program 2013. Deadline is June 10, 2013, to UPEI Office of Graduate Studies, 301 Main Building.

CIDA. Call for concept notes: The Canadian International Food Security Research Fund (CIFSRF). Deadline is June 5, 2013: [Website](#)

UPEI Student as Scholar Grant. Deadline Extended to 4 pm, May 24, 2013, to Office of the Vice-President Academic.

2013 AVC Staff Merit Award. Deadline is 3 pm, May 24, 2013, to AVC Dean's Office.

AVC Class of 2013 White Coat Ceremony, Cocktail Reception & Buffet Dinner. May 10, 2013.

The Hooper/Klarenback Research Graduate Scholarship. Deadline is May 3, 2013, to Heather Keoughan in the Registrar's Office.

CIHR Health Professional Undergraduate Student Research Awards - Call for Applications. Deadline is 4 pm, May 1, 2013: [Web site link.](#)

SCENT Travel-Instructional Development Grant Application 2013. Deadline is 4 pm, April 30, 2013, to gwandio@upei.ca.

Departmental Seminars for May

Stacey Goldberg	A molecular approach to identify the origin of antimicrobial bromotyrosine-like natural products	May 7	Biomedical Sciences
-----------------	--	-------	---------------------

Please don't print this newsletter unless you really need to!

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

Editor: [Dr. Alfonso Lopez](#)

Reviewers: Dr. Maria Forzan & Dr. Shelley Burton

For past issues of the Path/Micro newsletter, click [here!](#)

To return to the Path/Micro homepage, click [here](#)



