Urban Rats – Does the City Environment Increase Potential Risks to Human Health? Jamie Rothenburger is taking a detailed look at individual rats and their urban environment with her adviser, Prof. Claire Jardine. By learning how their environment affects rats and the zoonotic pathogens they carry, she hopes to better understand potential human health risks.

Dr. Peregrine and Jonathon Kotwa discussed what Echinococcus multilocularis is, its history in Canada and Ontario, types of infections, and what veterinarians need to know on the Ontario Animal Health Network Veterinary Podcasts. >> go to podcast

Dr. Ellie Milnes gave a presentation on ‘Suspected hypokalemic polymyopathy in two white lion cubs at the Toronto Zoo’ at the Veterinary Management of African Wildlife Conference (South African Veterinary Association Wildlife Group) at the Faculty of Veterinary Science in Pretoria, South Africa.

More News: | OVC NEWS | OVC BULLETIN | U of G Campus News

Congratulations to Dr. Stefan Keller, for being selected as one of the JELF recipients, receiving $74,135 for profiling adaptive immune responses in animals. >> OVC Bulletin | U of G News

Drs. Patrick Boerlin and Scott Weese, will receive funding from the Canadian Institutes of Health Research to look at the risks of infections from animals and how people can avoid disease. >> OVC Bulletin | U of G News

Congratulations to Dr. Patrick Boerlin on being the recipient of the 2017 Zoetis Research Award.

Congratulations to Dr. Eva Nagy for being recognized as a YM/YWCA Women of Distinction for 2017.

Congratulations to Dr. Brandon Plattner on being awarded tenure and promotion to Associate Professor.

Congratulations to Drs. Khalil Karimi and Ravi Kulkarni, who were awarded four-year terms as associated faculty members. This means they can now be appointed as co-advisors of graduate students and/or can serve on any number of graduate advisory, thesis defence and PhD qualification exam committees. Please keep this in mind when expertise in immunology may be of value to you or your student.

Congratulations to Mankerat (“Mani”) Singh, who received a $6,000 BioCanRx Summer Studentship to undertake a research project entitled "Enhancing dendritic cell-based anti-cancer vaccines through adaptation to a hypoxic microenvironment" under the co-supervision of Drs. Byram Bridle and Khalil Karimi.

Congratulations to Dr. Ellie Milnes (Foster and Nemeth, co-advisors). Recipient of a Zebra Foundation scholarship from the British Veterinary Zoological Society, the American Ornithological Society Student Membership Award and the OVC 1960 Graduate Scholarship.

Congratulations to Dr. Samantha Allen (Nemeth advisor). Recipient of the 2017 Ontario Federation of Anglers and Hunters (OFAH)/OFAH Zone G/Oakville & District Rod & Gun Club Wildlife Research Grant; as an award recipient, Sam attended and provided a presentation on her research project on Orbiviruses in free-ranging cervids and livestock in Ontario at the annual OFAH conference on March 17 and 18 at the Hilton Mississauga/Meadowvale Hotel.

Congratulations to Dr. Lauraine Wagter-Lesperance, who was awarded a 2 year MITACS Elevate Post-Doctoral fellowship. Dr. Wagter-Lesperance will work with Semex and Prof. Bonnie Mallard to look at factors in colostrum not yet investigated among cattle ranked using the High Immune Response (HIR) technology.
RECENT PUBLICATIONS

**Truncation of the enzootic nasal tumor virus envelope protein cytoplasmic tail increases Env-mediated fusion and infectivity.** Walsh SR, de Jong JG, van Vloten JP, Gerpe MC, Santry LA, Wootton SK.

**ABSTRACT (excerpt):** Enzootic nasal tumor virus (ENTV) and Jaagsiekte sheep retrovirus (JSRV) are highly related ovine betaretroviruses that induce nasal and lung tumours in small ruminants, respectively. >> [PubMed](https://pubmed.ncbi.nlm.nih.gov)

**Passive ureteral dilation and ureteroscopy after ureteral stent placement in five healthy Beagles.** Vachon C, Defarges A, Brisson B, Nykamp S, Weese JS, Denstedt J, Berent AC.

**ABSTRACT (excerpt):** OBJECTIVE To determine whether passive ureteral dilation (PUD) would occur after an indwelling ureteral stent was left in place in healthy dogs for 2 or 6 weeks, ureteroscopy would be possible at the time of stent removal, and PUD would be reversible after stent removal. ANIMALS 5 healthy adult female Beagles. >> [PubMed](https://pubmed.ncbi.nlm.nih.gov)

**Heritabilities of measured and mid-infrared predicted milk fat globule size, milk fat and protein percentages, and their genetic correlations.** Fleming A, Schenkel FS, Koeck A, Malchiodi F, Ali RA, Corredig M, Mallard B, Sargolzaei M6, Miglior F.

**ABSTRACT (excerpt):** The objective of this study was to estimate the heritability of milk fat globule (MFG) size and mid-infrared (MIR) predicted MFG size in Holstein cattle. >> [PubMed](https://pubmed.ncbi.nlm.nih.gov)

**Dose-dependent inhibition of uterine contractility by nitric oxide: A potential mechanism underlying persistent breeding-induced endometritis in the mare.** Khan FA, Chenier TS, Murrant CL, Foster RA, Hewson J, Scholtz EL.

**ABSTRACT (excerpt):** Nitric oxide (NO) may have a role in persistent breeding-induced endometritis in mares through an inhibitory effect on uterine contractility. The objectives of this study were to test the effect of NO on spontaneous uterine contractility in-vitro and to evaluate whether this effect varied between the longitudinal and circular muscle layers of the uterus. >> [PubMed](https://pubmed.ncbi.nlm.nih.gov)

### FINAL EXAMINATIONS

<table>
<thead>
<tr>
<th>Date</th>
<th>Degree</th>
<th>Name</th>
<th>Examination Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apr 5</td>
<td>DVSc</td>
<td>Elein Hernandez, Qualifying Oral Examination</td>
<td>9 am PAHL Room 3826</td>
</tr>
<tr>
<td>Apr 12</td>
<td>DVSc</td>
<td>Dr. Laura Bourque, DVSc. with Dr. Caswell</td>
<td>1 PM Presentation PAHL Room 1810</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Defense/Examination PAHL Room 4838</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>“Environmental Contaminants and Respiratory Innate Immunity: In Vitro Effects of Polycyclic Aromatic Hydrocarbons and Crude Oil on Tracheal Antimicrobial Peptide Gene Expression”</td>
</tr>
<tr>
<td>Apr 18</td>
<td>MSc</td>
<td>Rebecca Flancman, MSc. with Dr. Weese</td>
<td>9:30 am Presentation LLC 1713</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Defense/Examination LLC 1708</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>“Evaluation of the impact of dental prophylaxis on the oral microbiota of dogs”</td>
</tr>
</tbody>
</table>

### GRAD STUDENT CORNER

**Graduate seminars — see upcoming events**

### IMPORTANT DATES

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apr 3 - May 19</td>
<td>Summer 2017 Course Selection period</td>
</tr>
</tbody>
</table>

**All Graduate Students using WebAdvisor**

**Registration is in two parts:**

**Part I:**

- Register into your courses UNIV*7500-Research and Writing & UNIV*7510- Full-time Student or UNIV*7520 Part-time Student.

**Part II:**

- Graduate Settlement due this now to avoid being charged a late fee.
RESEARCH HIGHLIGHT

Improving our toolkit to diagnose lymphoma

Lymphoma is the most common blood cancer in dogs and needs to be differentiated from benign lymphoid proliferations such as inflammation. While lymphoma requires aggressive chemotherapy and is ultimately fatal, inflammation is curable and carries a good prognosis.

We develop genetic tests to diagnose lymphoma more reliably, which ensures prompt and adequate treatment.

Group members/collaborators:
Mei-Hua Hwang, Ontario Veterinary College
Lucas Da Silva, Ontario Veterinary College
Jodi Morrison, Ontario Veterinary College
Dorothee Bienzle, Ontario Veterinary College
Nikos Darzentas, Central European Institute of Technology, Czech Republic
Peter Moore, UC Davis, USA

The FDA will ban antibacterial ingredients from soaps. What about Canada?

The U.S. Food and Drug Administration made a major announcement on Friday: Potentially risky ingredients in antibacterial soap are on the way out. Specifically, the agency announced that 19 antibacterial ingredients, such as triclosan and triclocarban, must be removed from hand and body washes within one year because manufacturers have failed to prove they are safe and effective.

The decision is huge, but not entirely surprising. For years, evidence has increasingly pointed to a host of risks associated with triclosan and other antibacterial ingredients—such as a link to bacterial resistance and interference with hormones.

Here in Canada, however, antibacterial ingredients are still permitted, for now. But the FDA’s move is already putting increasing pressure on our government to take action.

From The Globe and Mail

GRAD STUDENT REMINDERS

Please make sure that you get all the signatures from your committee members before submitting your semester report to the Graduate Program Assistant. Donna Kangas will get the signature from the Graduate Coordinator. You can submit your forms in an envelope in Donna’s mailbox on the third floor in Pathobiology. They will be picked up once a day.

READ YOUR UoG Email DAILY: This is how the Department of Pathobiology and other Departments of the University of Guelph contacts you.

MAILBOX: Pick up your mail on a daily or weekly bases.

MOVING? Let Donna Kangas know.

Donna Kangas Ext. 54725
Graduate Program Assistant - GPA
Population Medicine Building, Bldg #174
Pathobiology ovcjas.gradpath@uoguelph.ca
dkangas@uoguelph.ca

GRAD STUDENT SOCIAL

April 21st 4-7 pm

The Fifth - GSA Rooftop Patio and Lounge
(5th floor of the UC)

Our first social had a great turn-out, so make sure to come to our second one! Meet fellow students, relax, and have free food! These socials are funded by the Student Life Enhancement Fund.
UPCOMING EVENTS

PATHOBIOLOGY SEMINARS
Seminars will take place at 11:30 am in PAHL room 1810

Apr 7  Katie Clow, Pathobiology
Understanding the distribution, spread and influence of biotic and abiotic factors on Ixodes scapularis and the risk of Lyme disease in Ontario, Canada
Host: D. Jardine

Apr 11 Dr. Stéphane Lair
Wed Université de Montréal
Regional Director Canadian Wildlife Health Cooperative
“St. Lawrence Beluga whales: Old and new health issues.”
Host: J. Caswell
NOTE: ROOM 1812

Apr 21 Dr. Heather MacDougall
University of Waterloo
“Adoption and gradual decline in appreciation for the measles and MMR vaccines.”
Host: S. Wootton

Apr 28 Dr. Jeff Farber
University of Guelph, Director of CRIFS at the University of Guelph and Coordinator for the Food Safety and Quality Assurance graduate program
“Emerging issues in microbial food safety.” Host: Patrick Boerlin

May 5 Dr. Jim Uniacke
MCB, University of Guelph
“Translational Control and Oxygen sensing in Cancer Progression” Host: S. Wootton

IMMUNOLOGY CLUB
Contact Dr. Mallard or Dr. Kulkarni for details

Apr 4 Jacob Van Vloten
Apr 18 Russel Fraser

PHRN SEMINARS

Apr 24 PHRN Research Day
9:30 am - 3:30 pm Arboretum
>> details

PHRN | NEWS | EVENTS |

U of G EVENTS

Apr 6 Chappel Memorial Lecturer
Dr. Rocky Tuan
“Engineering and Regeneration: Stem Cells, Biomatrix and Biometric Scaffolds.”
3:30 PM LLC 1714

Apr 19-21 Instructional Skills Workshop

May 2-3 Teaching & Learning Innovations Conference

May 8 Course reDesign Institute

May 25 10th Annual Institute for Comparative Cancer Investigation
Cancer Research Symposium
Free all day campus event includes guest speakers, student presentations and a poster session. LLC 1714 & 1707B/C

ABOVE LEFT PHOTO: 4 members of this year’s Path-Ethics team braved the bitter cold and jogged 5k at the March Pet Trust Dog Jog Fundraiser. Small but mighty. Stefan Keller with KC and Dorothee Bienzle with Loka.

ABOVE RIGHT PHOTO: The department wishes Janella Lale all the best with her new full time position off campus. We will miss having your cheery personality brighten up our day during coffee breaks!

GRANT OPPORTUNITIES

INTERNAL
• Pet Trust Research Competition
  Deadline: See link above for schedule of dates

EXTERNAL
• CIHR Project Review

AVPA TA Award - Have you worked with a great TA this year? Nominate them for the Associate Vice-President Academic Teaching Assistant of Award of Excellence by April 27, 2017.

AVPA Scholarship of Teaching and Learning Fund - Proposals are now being accepted for the AVPA SoTL fund. Submit a proposal by: April 17th, 2017

DEPARTMENT REMINDERS
Reminder, if you are not wishing to renew your annual parking pass this May, please email Parking Services by April 21.

NEWS from OVC Centres and More
• OVC Bulletin
• Campbell Centre for Animal Welfare
• Centre for Cardiovascular Investigations
• Centre for Public Health and Zoonoses
• Equine Guelph
• Institute for Comparative Cancer Investigations
• OAHN
• OVC Pet Trust
• Poultry Health Research Network
• B4uGetaPet
• Worms and Germs

Marni Struyk
Receptionist/Secretary
Room 3838 PAHL
Ext 54755
mstruyk@uoguelph.ca

Contact Nathalie
• newsletter submissions
• OVC website updates
• research posters
• research websites
• teaching rooms and resources

>> Award details

PRESIDENT’S AWARDS FOR EXEMPLARY STAFF SERVICE
Do you know someone who has consistently demonstrated a commitment to excellence and has exceeded the expectations of their normal employment responsibilities. Employees selected receive $2,000 and are recognized during an annual community event. Teams share the cash prize.