



CENTRE FOR CARDIOVASCULAR INVESTIGATIONS

University of Guelph



CURRENT EVENTS



❖ Support CCVI at the Ride for Heart!

Donate, buy raffle tickets, or *join the team to walk, run, or ride* in the Ride for Heart on Sunday, June 4. Click [here](#) for the link to CCVI's team and for more information, see our CCVI website [homepage](#).

❖ CCVI launches its Cardiovascular Scientist Seminar Series

On February 27, 2017 CCVI launched its first CV Scientist Seminar featuring Dr. Philip Millar and Dr. Tarek Saleh. On March 28, CCVI hosted its 2nd seminar featuring Dr. John Dawson and Dr. Lynne O'Sullivan.

❖ CCVI Cardiovascular Research Day

On September 29, 2016 CCVI hosted its successful inaugural CV Research Day featuring distinguished speakers Dr. Lorrie Kirshenbaum (Manitoba), Dr. Zam Kassiri (Alberta), Dr. Robert Gilmour (PEI), and Dr. Kim Connelly (Toronto).

See CCVI's [education](#) page for videos of these seminars.

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RECENT MEDIA STORIES



Dr. Tami Martino's lab recently published on the circadian clock and cardiac aging in the *Journal of Molecular and Cellular Cardiology* (2017) and was the subject of recent local and national [media](#), including [CBC](#) and others.

Dr. Jamie Burr's lab was featured in [Guelph Today](#) and [The Ontarion](#) for their research on the potential health benefits of snowmobiling.

The Burr lab was also featured in the [Toronto Star](#) for their research on blood flow restriction and athlete performance.



RESEARCH ACHIEVEMENTS

Congratulations!

- ❖ **Dr. Faisal Alibhai** from the Martino lab who recently graduated with a PhD in Fall 2016 and was nominated by the University of Guelph for the 2017 CAGS/UMI Distinguished Dissertation Award.
- ❖ **Alanna Whinton** from the Burr lab for winning 2nd place at the College of Biological Science Three Minute Thesis Competition and subsequently 3rd place at the University of Guelph wide competition.
- ❖ **Elena Tsimakouridze** from the Martino lab who recently graduated with a PhD and took a position at Els van der Helm Sleep Consulting in Amsterdam, Netherlands.
- ❖ **Haidun Liu** from the Dawson lab who recently graduated with an MSc.
- ❖ **Cristine Reitz** from the Martino lab for achieving an Ontario Graduate Scholarship and the Betty Goldhart Scholarship.
- ❖ **Kathy Jacyniak** from the Vickaryous lab for her presentation that has been shortlisted for the AAA Langman Graduate Student Platform Presentation award.
- ❖ **Priya Mistry** from the Martino lab for receiving a Canadian Institute of Health Research (CIHR) MSc scholarship.
- ❖ **Andrew Foster** from the Simpson lab for receiving a PhD scholarship from the Canadian Thoracic Society and Canadian Lung Association.
- ❖ **Dr. Jamie Burr** for receiving grants from the following: Delfi tourniquet systems (private grant), Mitacs Accelerate Cluster, Athletics Canada, Canadian Council of Snowmobile Organizations (private grant), Canada Foundation for Innovation, Ontario Ministry of Research and Innovation (CFI Match), NSERC Research Tools and Instruments, University of Guelph-Humber Research Grant and a UPEI Research Grant.
- ❖ **Dr. Sonja Fonfara** for receiving a grant from the Center for Applied Biotechnology and Molecular Medicine (CABMM), University of Zurich, for “Canine and feline cardiomyopathies: an out-of-hand cardiac remodelling scenario”.
- ❖ **Dr. Tami Martino** who was a co-applicant on the awarded CIHR Team Grant on “Mobilizing the healthcare community towards an integrated approach to improving outcomes in patients with sleep disorders – Canadian Sleep and Circadian Network (CSCN).”

CCVI MEMBERS AT UPCOMING CONFERENCES

- ❖ **Dr. Sonja Fonfara** will be attending the 2017 ACVIM forum in Washington in June 2017 with 3 accepted presentations:
 - “Ventricular Remodeling Marker Levels Differ in Cats with Hypertrophic Cardiomyopathy with and without Atrial Thrombus” – Sonja Fonfara, Sarah Kitz, Anja Kipar
 - “Heart-Fatty Acid Binding Protein – A Potential Marker for Canine Cardiac Diseases” – Chris Lam, Domingo Casamian-Sorrosal, Gabrielle Monteith, Sonja Fonfara
 - “Myocardial remodeling in canine dilated cardiomyopathy (DCM)” – Stephania Gasparini, Sonja Fonfara, Udo Hetzel, Anja Kipar.

- ❖ **Dr. Lynne O’Sullivan** will also be attending the Forum of the American College of Veterinary Internal Medicine, with a presentation:

“Prospective Clinical Trial Evaluating Spironolactone in Dobermans with Congestive Heart Failure due to Dilated Cardiomyopathy” - A. Laskary, H. Chambers, S. Fonfara, ML O’Sullivan.

- ❖ **Dr. Tami Martino, Cristine Reitz (PhD), Priya Mistry (MSc), Austin Duong (MBS) and Ryan Chester** (undergraduate) will be attending the Canadian Society for Chronobiology Conference at York University in May 2017. Dr. Martino is also an invited speaker for SLEEP 2017 in Boston and the American Heart Association Scientific Sessions 2017 in Anaheim, California.

- ❖ **Dr. Matt Vickaryous** and lab will be attending the international conference, Experimental Biology 2017, at the end of April in Chicago, where **Kathy Jacyniak** will present on “Constitutive cardiomyocyte proliferation in the postnatal leopard gecko” that has been shortlisted for the AAA Langman Graduate Student Platform Presentation award.

- ❖ **Dr. Jeremy Simpson** and lab will also be attending the international conference, Experimental Biology 2017, in Chicago, where **Jason Huber** will present on “Splenectomy-Induced Diastolic Dysfunction With Normal Ejection Fraction”.

- ❖ **Dr. John Dawson** and lab will be attending the 8th Annual Muscle Health Awareness Day on Friday May 26, 2017 at York University.

- ❖ **Dr. Jamie Burr** will be on the Symposia panel examining the effects of sedentary behaviour on cardiovascular (and metabolic) physiology at the Canadian Society for Exercise Physiology Conference.
- ❖ Other major upcoming Cardiovascular Conferences include: [Canadian Cardiovascular Society](#), [American Heart Association](#) and the [International Society of Heart Research](#).

RECENT PUBLICATIONS

1. Alibhai FJ, LaMarre J, Reitz CJ, Tsimakouridze EV, Kroetsch JT, Bolz SS, Shulman A, Steinberg S, Burris TP, Oudit GY, Martino TA. Disrupting the key circadian regulator CLOCK leads to age-dependent cardiovascular disease. *J Mol Cell Cardiol.* 105:24-37, 2017.
2. Incognito A, Burr JF, Millar P. Viewpoint: Could small-diameter muscle afferents be responsible for the ergogenic effect of limb ischemic preconditioning? *J Appl Physiol.* 122(3) 721-725, 2017.
3. Burr J.F., Beck J.L., Durocher J.J. A comparison of arterial stiffness in habitual high-intensity cross-training, aerobic exercise and sedentariness. *J Sport Health Sci.* (In Press).
4. Coates A, Mountjoy M, Burr JF. Incidence of iron deficiency and iron deficient anemia in elite runners and triathletes. *Clin J Sport Med.* (In Press – epub ahead of print).
5. Incognito A., Burr J.F., Millar, P.J. The effects of Ischemic Preconditioning on Human Exercise Performance: a counterpoint. *Sports Med.* DOI 10.1007/s40279-016-0611-0, 2016.
6. Slysz J, Stultz J, Burr JF. The efficacy of blood flow restricted exercise for stimulating adaption in strength and hypertrophy: a systematic review and meta-analysis. *J Sci Med Sport.* 19(8) 669-675, 2016.
7. Goodman J, Burr JF, Banks L, Thomas S. The acute risks of exercise in apparently healthy adults and relevance for prevention of cardiovascular events. *Can J Cardiol.* 32(4):523-532, 2016.
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9. Fonfara S, Kitz S, Hetzel U, Kipar A. Myocardial leptin transcription in feline hypertrophic cardiomyopathy. *Res Vet Sci.* 112:105-108, 2017.

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12. Wills MK, Keyvani Chahi A, Lau HR, Tilak M, Guild BD, New LA, Lu P, Jacquet K, Meakin SO, Bisson N, Jones N. Signaling adaptor ShcD suppresses extracellular signal-regulated kinase (Erk) phosphorylation distal to the Ret and Trk neurotrophic receptors. *J Biol Chem.* 292(14):5748-5759, 2017.
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14. Paglialunga S, Simnett G, Robson H, Hoang M, Pillai R, Arkell AM, Simpson JA, Bonen A, Huising M, Joseph JW, Holloway GP. The Rab-GTPase activating protein, TBC1D1, is critical for maintaining normal glucose homeostasis and β -cell mass. *Appl Physiol Nutr Metab.* 2017.
15. Dindia LA, Alderman SL, Gillis TE. Novel insights into cardiac remodelling revealed by proteomic analysis of the trout heart during exercise training. *J Proteomics.* pii: S1874-3919(17)30107-0, 2017
16. Keen AN, Klaiman JM, Shiels HA, Gillis TE. Temperature-induced cardiac remodelling in fish. *J Exp Biol.* 220(Pt 2):147-160, 2017.
17. Alderman SL, Lin F, Farrell AP, Kennedy CJ, Gillis TE. Effects of diluted bitumen exposure on juvenile sockeye salmon: From cells to performance. *Environ Toxicol Chem.* 36(2):354-360, 2017.
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19. Kraus M, Physick-Sheard PW, Brito LF, Schenkel FS. Estimates of heritability of atrial fibrillation in the Standardbred racehorse. *Equine Vet J.* 2017.
 20. Munro JC, Schenkel FS, Physick-Sheard PW, Fontoura AB, Miller SP, Tennessen T, Montanholi YR. Associations of acute stress and overnight heart rate with feed efficiency in beef heifers. *Animal.* 11(3):452-460, 2017.
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