

Wednesday/Mercredi, May/Mai 8

8:30-10:30

Oxygen availability

Location/Lieu: **Ballroom A and B**

Chair/Animé par: **Loïck Ducros** (Université de Moncton)

8:30-8:45	The functional and structural response of the zebrafish (<i>Danio rerio</i>) cardiovascular system to chronic hypoxia. <u>Manchester, E.M.</u> & Gillis, T.E. <i>Department of Integrative Biology, University of Guelph, Guelph, ON, Canada</i>
8:45-9:00	Influence of hemoglobin-O₂ affinity on aerobic capacity in deer mice <u>Garvey, Kayla M.</u> ¹ , Scott, Graham R. ¹ <i>¹Department of Biology, McMaster University, Hamilton, ON, Canada</i>
9:00-9:15	The single chambered decapod crustacean heart may function as a “multi-chambered” organ. <u>Ebrahim, R. A.</u> ¹ , Cahill, L. S. ² , Smith, G. R. ³ , van Breukelen, F. ³ , McGaw, I. J. ¹ <i>¹ Department of Ocean Science, Memorial University of Newfoundland, Newfoundland, Canada; ²Department of Chemistry, Memorial University of Newfoundland, Newfoundland, Canada; ³ Department of Life Sciences, University of Nevada Las Vegas, Nevada, United States of America.</i>
9:15-9:30	Frozen-shut: Cold and hypoxia stress tolerance in winter-active pond insects <u>Burton, L.S.</u> , Rodela, T.M., Toxopeus, J. <i>Department of Biology, Saint Francis Xavier University, Antigonish, Canada</i>
9:30-9:45	The Effects of Hypoxia on the Olfactory System of Marine Threespine Stickleback (<i>Gasterosteus aculeatus</i>) <u>Tigert, L.R.</u> ¹ , Porteus, C.S. ¹ <i>¹ Cells and Systems Biology, University of Toronto Scarborough, Scarborough, ON, Canada</i>
9:45-10:00	Wild fish holobiont response to abiotic gradients in the Elbe estuary <u>Koll, R.</u> ¹ , Theilen, R. ² , Hauten, E. ³ , Woodhouse, J. ^{1,4} , Fabrizius, A. ¹ <i>¹ University of Hamburg; Institute of Cell- and Systems Biology of Animals, Molecular Animal Physiology; ²Leibniz Institute for the Analysis of Biodiversity Change - Hamburg site; Centre for Taxonomy & Morphology; Zoological Museum; ³ University of Hamburg; Institute of Marine Ecosystem and Fishery Science, Marine ecosystem dynamics; ⁴ Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB)</i>
10:00-10:15	Naked Truths: Hypoxia Downregulates the Inflammasome of Naked Mole-Rats Following LPS Treatment <u>Kadamani, K. L.</u> ¹ , Pamerter, M. E. ¹ <i>¹Department of Biology, University of Ottawa, Ottawa, ON, Canada</i>
10:15-10:30	Turtle Hepatocytes Oxy-Conform to Extremely Low O₂ Tensions and Require Cyanide to Elicit Ion Channel Arrest. Lari, E., Saganthan, H., Di Stefano, D., Myrka, A., <u>Buck, L.</u> <i>Department of Cell and Systems Biology, Toronto, ON and Department of Ecology and Evolutionary Biology, Toronto, ON.</i>