Thursday/Jeudi, May/Mai 9

13:30-15:30

Cold Invertebrates

Location/Lieu: **Shediac A**

Chair/Animé par: **Jackie Lebenzon** (University of California Berkeley)

13:30-13:45	**Does Borrelia burgdorferi, the bacterium causing Lyme Disease, improve the cold tolerance of black-legged ticks?** Lauzon, M.C.[1], van Oirschot, M.L.[2], Gough, A.L.[2], Toxopeus, J.[2], Ferguson, L.V.[1] *[1]Department of Biology, Acadia University, Wolfville, Canada; [2]Department of Biology, St. Francis Xavier University, Antigonish, Canada*
13:45-14:00	**Renal transcriptional plasticity during cold acclimation allows Drosophila melanogaster to prevent chill injury.** Dean, R. A.[1], DeNicola, E. H. M.[1], MacMillan, H. A.[1] *[1] Department of biology, Institute of Biochemistry, Carleton University, Ottawa, Canada*
14:00-14:15	**Harlequin ladybird, *Harmonia axyridis*, physiology is largely unaffected by fungal infection (*Hesperomyces virescens*), except for cold tolerance** Awde, D.A.[1], Žabová, B.[2], Vaněčková, K.[2], Řeřicha, M.[2], Knapp, M.[2] *[1] Department of Biology, Mount Saint Vincent University, Halifax, NS, Canada; [2] Department of Ecology, Faculty of Environmental Sciences, Czech University of Life Science Prague, Prague-Suchdol, Czechia*
14:15-14:30	**Latent chilling injuries and their link to the immune system in *Drosophila melanogaster*** El-Saadi, M. I., Allen, M. C., MacMillan, H. A. *Department of Biology, Carleton University, Ottawa, ON, Canada*
14:30-14:45	**Freeze frame: Cytoskeletal restructuring (or lack thereof) in freeze-tolerant crickets** van Oirschot, M, L.[1], Toxopeus, J.[1] *[1] Department of Biology, St. Francis Xavier University, Antigonish, Canada*
14:45-15:00	**Surviving the Chill: Unraveling the Mysteries of *Ambigolimax valentianus*' Slug Freeze Tolerance** Gill, L. T.[1], Udaka, H.[2], Marshall, K. E.[1] [1] Department of Zoology, University of British Columbia, Vancouver, Canada; [2] Division of Biological Sciences, University of Kyoto, Kyoto, Japan
15:00-15:15	**Bioprospecting Vancouver's Intertidal Zone for Novel Ice Binding Proteins** Moyes, N.H.W. [1], Bertram, A.K.[2], Marshall, K.E.[1] *[1]Department of Zoology, University of British Columbia, Vancouver, BC, Canada; [2]Department of Chemistry, University of British Columbia, Vancouver, BC, Canada*
15:15-15:30	**The mighty mito membrane: How do frozen crickets maintain mitochondrial function?** Saruhashi, S., Coulson, S.Z., Staples, J.F., Sinclair, B.J. *Department of Biology, Western University, London, Ontario, Canada*