

## Wednesday/Mercredi, May/Mai 8

14:30-16:30

### Gut Physiology

Location/Lieu: **Shediac C**

Chair/Animé par: **Marishia Agard** (York University)

14:30-14:45	<b>Unveiling the role of gastric acid secretion in post-prandial energetics and assimilation in <i>Astyanax mexicanus</i></b> <u>Ferreira, P.G.</u> , Wilson, J.M. <i>Department of Biology, Wilfrid Laurier University, Waterloo, Canada</i>
14:45-15:00	<b>Butyrate Supplementation and Temperature: Host vs Resident Impacts on Growth, Metabolism, and Gut Microbiome Composition in Sailfin Molly (<i>Poecilia latipinna</i>)</b> <u>Trovato J.</u> , Bucking C. <i>Department of Biology, York University, Toronto, Canada</i>
15:00-15:15	<b>Hibernators salvage urea carbon during resource-limited winter to facilitate gut microbial acetogenesis</b> <u>Regan, M.D.</u> <sup>1</sup> , Chiang, E. <sup>2</sup> , Grahn, M <sup>3</sup> ., Assadi-Porter, F.M. <sup>4</sup> , Suen, G. <sup>2</sup> , Carey, H.V. <sup>3</sup> <sup>1</sup> <i>Department of Biology, University of Montréal, Montreal, Canada;</i> <sup>2</sup> <i>Department of Bacteriology, University of Wisconsin-Madison, Madison, WI, USA;</i> <sup>3</sup> <i>Department of Comparative Biosciences, University of Wisconsin-Madison, Madison, WI, USA;</i> <sup>4</sup> <i>IsoMark Health LLC, Madison, WI, USA.</i>
15:15-15:30	<b>Functional characterization RYamides and deorphanization of their receptors in the yellow fever mosquito, <i>Aedes aegypti</i></b> <u>Tan, J.</u> <sup>1*</sup> and Paluzzi, J.P. <sup>1</sup> <sup>1</sup> <i>Department of Biology, York University, Toronto, ON, Canada</i>
15:30-15:45	<b>Environmental influence on microbiome structure and function in the starlet sea anemone (<i>Nematostella vectensis</i>) across wild and laboratory conditions.</b> <u>MacPherson, J.</u> <sup>1</sup> , Koçyiğit, S. <sup>1</sup> , Little, A.G. <sup>2</sup> , and Bucking, C. <sup>1</sup> <sup>1</sup> <i>Department of Biology, York University, Toronto, ON, Canada;</i> <sup>2</sup> <i>Department of Biology, McMaster University, Hamilton, ON, Canada</i>
15:45-16:00	<b>Effects of Swim Bladder Non-Inflation on the Gut of Larval Zebrafish (<i>Danio rerio</i>)</b> <u>Caroline Blakely</u> , Timothy Erickson, Kadri Lawrence, Benjamin Perrett <i>Department of Biology, University of New Brunswick, Fredericton, NB, Canada</i>
16:00-16:15	<b>Nitrogenous waste and acid-base dynamics in the gut of rainbow trout after a single meal. I. Physiology</b> <u>Wood, C.M.</u> <sup>1</sup> , Wilson, J.M. <sup>2</sup> <sup>1</sup> <i>Department of Zoology, University of British Columbia, Vancouver, B.C., Canada;</i> <sup>2</sup> <i>Department of Biology, Wilfrid Laurier University, Waterloo, Canada</i>
16:15-16:30	<b>Nitrogenous waste and acid-base dynamics in the gut of rainbow trout after a single meal. II. Gene Expression.</b> <u>Wilson, J.M.</u> <sup>1</sup> , Wood, C. M. <sup>2</sup> <sup>1</sup> <i>Department of Biology, Wilfrid Laurier University, Waterloo, Canada</i> <sup>2</sup> <i>Department of Zoology, University of British Columbia, Vancouver, Canada</i>