

Wednesday/Mercredi, May/Mai 8

14:30-16:30

Thermal Physiology of fish 2

Location/Lieu: **Ballroom AB**

Chair/Animé par: **Ian Bouyoucos** (University of Manitoba)

14:30-14:45	Taurine efflux supports cardiac output under acute thermal stress by protecting cell volume <u>MacCormack, T. J.</u> ¹ , El, N. ¹ , Haché, C. M. ¹ , LaHay, M. E. ¹ , Smallwood, E. C. ¹ , Christjansen, M. ¹ , Pabody, C. M. ¹ , Lamarre, S. G. ² ¹ Department of Chemistry and Biochemistry, Mount Allison University, Sackville, NB, Canada; ² Department of Biologie, Université de Moncton, Moncton, NB, Canada
14:45-15:00	Seasonal changes in the thermal tolerance, sensitivity, and regulation of cardiac function in fishes with different overwintering strategies <u>Williams, E.P.</u> ¹ , Gilbert, M.J.H. ^{1,2} , Kieffer, J. ¹ , and Speers-Roesch, B. ¹ ¹ Department of Biological Sciences, University of New Brunswick, Saint John, Canada; ² Institute of Arctic Biology and Department of Biology and Wildlife, University of Alaska, Fairbanks, United States
15:00-15:15	Rapid Thermal Acclimation of Cardiac and Whole Animal Heat Tolerance in Lab and Field Populations of a Eurythermal Fish, the Mummichog (<i>Fundulus heteroclitus</i>) <u>Rivard, G.</u> , Gilbert, M.J.H., and Speers-Roesch, B. Department of Biological Sciences, University of New Brunswick, Saint John, Canada
15:15-15:30	Dogfish heart rate peaks in warm water before they get agitated <u>Bouyoucos, I. A.</u> ^{1,2} , Weinrauch, A. M. ^{1,2} , Jeffries, K. M. ¹ , Anderson, W. G. ^{1,2} ¹ Department of Biological Sciences, University of Manitoba, Winnipeg, Canada; ² Bamfield Marine Sciences Centre, Bamfield, Canada
15:30-15:45	Facing an increasingly variable world : metabolic responses throughout an heatwave event in an endangered freshwater fish (<i>Zingel asper</i>) <u>Chloé Souques</u> ¹ , Julia Watson ¹ , Julie Le Guyader ¹ , Ludovic Guillard ¹ , Laetitia Averty ² , Candice Bastianini ² , Angeline Clair ² , Lilian Redon ¹ , Yann Voituron ¹ , François-Xavier Dechaume-Moncharmont ¹ , Elisa Thorat ³ , Loïc Teulier ¹ ¹ Université Claude Bernard Lyon 1 , CNRS, ENTPE, UMR 5023 LEHNA, F-69622, Villeurbanne, France; ² Plateforme Animalerie Conventiionnelle et Sauvage Expérimentale de la Doua (ACSED), Fédération de Recherche 3728, Univ Lyon, Université Claude Bernard Lyon 1 , CNRS, ENS-Lyon, INRAE, INSA, VetAgroSup, F-69622, Villeurbanne, France; ³ - Lund University, Department of Biology, Section for Evolutionary Ecology, Sölvegatan 37, SE-223 62, Lund, Sweden
15:45-16:00	Seasonal temperature induced heart-collagen remodeling response in the rainbow darter (<i>Etheostoma caeruleum</i>) <u>Hamel, M. S.</u> ¹ , Craig, P. M. ¹ ¹ Department of Biology, University of Waterloo, Waterloo, Canada
16:00-16:15	Effects of a heatwave on cardiac mitochondrial respiration of a freshwater fish: the Rhône apron <u>Julia Watson</u> ¹ , Chloé Souques ¹ , Julie Leguyader ¹ , Damien Roussel ¹ , Rémi Lassus ² , Ludovic Guillard ¹ , Angeline Clair ³ , Laëtitia Averty ³ , Candice Bastianini ³ , Lilian Redon ¹ , Yann Voituron ¹ , Martin Daufresne ² , François-Xavier Dechaume-Montcharmont ¹ , Elisa Thorat ⁴ , Loïc Teulier ¹ ¹ - Université Claude Bernard Lyon 1 , CNRS, ENTPE, UMR 5023 LEHNA, F-69622, Villeurbanne, France; ² - INRAE, Aix Marseille Univ., RECOVER, Aix-en-Provence, France; ³ - Plateforme Animalerie Conventiionnelle et Sauvage Expérimentale de la Doua (ACSED), Fédération de Recherche 3728, Univ Lyon, Université Claude Bernard Lyon 1 , CNRS, ENS-Lyon, INRAE, INSA, VetAgroSup, F-69622, Villeurbanne, France; ⁴ - Lund University, Department of Biology, Section for Evolutionary Ecology, Sölvegatan 37, SE-223 62, Lund, Sweden