

POSTERS ICBF 2026

Poster #	Session Proposal Title	Presenter
Ancient fishes in comparative physiology: Agnathan and chondrichthyan fishes		
1	Sharks, steroids, and symbiosis? An investigation into the biosynthetic pathway of 1-alpha-hydroxycorticosterone	Cederberg, Elliot
2	Relaxed purifying selection in stress axis genes of ancient fishes relative to teleosts	Lazaro-Côté, Analisa
Applying knowledge of fish biology to sustainable aquaculture		
3	Interactive effects of warming and dietary nanoplastics on erythro-immune homeostasis in gilthead seabream (<i>Sparus aurata</i>)	Mancera Romero, Juan Miguel
4	Alternative vectors for fish nutrition: "mush" room for improvement?	Seethram, Maya
5	Biological authentication and traceability tools to strengthen seafood supply chain transparency: insights from the FishEUTrust project	Tang, Patrik Anthony
6	Physiological mechanisms of reduced feed intake and growth after vaccination in salmonid fish	Wallbom, Nicklas
7	Cardiac morphology as an indicator for growth in farmed Atlantic Salmon (<i>Salmo salar</i>)	Wong-Branscome, Olivia
8	Can exercise training improve mitochondrial function in rainbow trout cardiomyocytes?	Anttila, Katja
Bridging experimental biology and conservation: From mechanism to application		
9	Hot and Caught: Physiological recovery of Atlantic spiny dogfish following heatwave and trawl capture	Masters, Shyane
Cardiac responses to changing environmental conditions		
10	Cardiac mitochondrial function and the temperature-dependent physiology of tropical marine fishes	Gamperl, Anthony
11	Differential impact of the PAH fluorene and its associated oxyPAHs on the cardiac contractility of juvenile Chinook salmon (<i>Oncorhynchus tshawytscha</i>)	Labonte, Jennessa
12	Haematological and biochemical effects of the rapid screening protocol for cardiac thermal tolerance in brook char (<i>Salvelinus fontinalis</i>)	MacCormack, Tyson
13	A field study of interspecific anatomical diversity & comparative scope for seasonal plasticity of the cardiorespiratory organs using 15 species of co-habiting stream fish	Manchester, Elizabeth
14	Thermal acclimation potential of juvenile Alaskan Chinook (<i>Oncorhynchus tshawytscha</i>)	Wagner-Jones, Amelia
Current trends in growth and metabolism of fishes		
15	Routine metabolic rate across early developmental stages of Atlantic salmon (<i>Salmo salar</i>) in relation to survival and growth	Bair, Halli
16	Thermal constraints on feeding, growth and metabolism in juvenile Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) in Alaska.	Bhagat, Siya
17	Bridging lab and field: <i>in situ</i> oxygen uptake measurements match laboratory-derived values in <i>Sebastes fasciatus</i>	Guitard, Joëlle
18	Past seawater experience enhances somatic growth in sturgeons	Miyamishi, Hiroshi
19	Profiling proteomic changes in taurine-treated myotubes of European sea bass	Solà, Roger
20	Artificial light including blue-green wavelengths promote growth of <i>Rachycentron canadum</i> with mRNA upregulation of appetite, growth axis and lipid synthesis	Yamauchi, Chihiro
Environmental physiology of life-history transitions: A tribute to Steve McCormick		
21	Paternal effects of diethyl phthalate (DEP) and cadmium (Cd) on the embryonic development of its offspring	Wu, Su Mei
Fish evolution in human-altered environments		

22	Evolutionary relationships among lake whitefish in the upper Laurentian Great Lakes	Gillespie, Jonah
23	The osmorepiratory compromise in freshwater prickly sculpins (<i>Cottus asper</i>)	Liu, Bing
Fish integrative neurobiology in changing environments		
24	Hidden in the vehicle: Behavioural effects of solvent exposure in larval zebrafish	Hagen, Ethan
25	Prolonged exposure to perfluorooctanesulfonic acid (PFOS) exposure alters anxiety-like behaviour in zebrafish (<i>Danio rerio</i>)	Kutcher, Ashley
26	Disruption of endocannabinoid signalling during gastrulation with 9 tetrahydrocannabinol (THC) or cannabidiol (CBD) alters γ aminobutyric acid (GABA) expression in developing zebrafish (<i>Danio rerio</i>)	Mamo, Grace
27	Single-nucleus RNA-sequencing of the hypothalamus reveals the molecular underpinnings of physiological and social homeostasis across variable environments	Phofolos, Demetrius
28	The anxiety-reducing drug buspirone has differential effects on selectively bred zebrafish at larval and adult stages	Steman, Tobin
Fish talks on phys tox		
29	Assessing lithium toxicity across a salinity gradient in coastal marine fishes	Esbaugh, Andrew
30	Sublethal citalopram exposure modulates antioxidant and neurotoxicity biomarker genes in rainbow trout	Bertucci, Juan, Ignacio
Integrating physiology and behaviour in a changing environment		
31	Seasonal habitat selection and activity patterns of juvenile burbot (<i>Lota lota</i>) in a laboratory setting	Anderson, Lars
32	Seasonal patterns of brain size plasticity in freshwater fish	Francispillai, Erin
33	Acute resilience, chronic costs: metabolic responses to warming and hypoxia in the sedentary Lusitanian toadfish, <i>Halobatrachus didactylus</i>	Guerreiro, Pedro M
34	Heat hardening in grey mullets: Physiological responses of juvenile <i>Chelon labrosus</i> and <i>Chelon aurata</i> under simulated short-term marine heatwaves	Guerreiro, Pedro M
35	ShoalBase: Global community database of fish social behaviour	Killan, Shaun
36	Methane exposure alters the transcriptome and behaviors of developing zebrafish (<i>Danio rerio</i>)	Steffler, Morgan
37	Coping with cloudy streams: Mechanisms of suspended sediment tolerance in fishes	Young-Veenstra, Sarah
Investigating the interrelated responses of climate, contaminants, & biodiversity loss in fishes		
38	Decadal trends in metal contamination and fish community responses in an industrialized river system (Nete river basin, Flanders, Belgium)	Balthazar, Iris
Ion and acid-base regulation in fishes		
39	Genomic variation that distinguishes euryhaline from stenohaline <i>Fundulus</i> species	Bernat, Tatum
40	Gill ionocyte diversity and metabolic adaptation to freshwater in Indian medaka (<i>Oryzias melastigma</i>)	Guh, Ying-Jey
Metabolism in motion: Mechanics, physiology, and ecology of fish movement		
41	Effects of social environment and energy efficiency on preferred swim speed in a marine generalist fish, pile perch (<i>Phanerodon vacca</i>)	Tiddy, Izzy C
Recent advances in fish biology and physiology (general session)		
42	Natural microalgal metabolites promote recovery of insulin-producing β -cells in zebrafish.	Ferreira-Martins, Diogo
43	Evidence for subfunctionalization of excitation-contraction coupling partners following the salmonid-specific genome duplication event	Franck, Jens

44	The feasibility of acoustic telemetry in longfin smelt, <i>Spirinchus thaleichthys</i> , using miniaturized acoustic transmitters	Gonzales, Sebastian
45	Distributional responses of European sea bass to operational floating wind turbine noise in a semi-natural outdoor mesocosm system.	Lefrancois, Christel
46	Reproductive steroid patterns during late-stage oocyte maturation in wild female burbot (<i>Lota lota</i>)	Leonard, Jill
47	Tracking American eel habitat use using non-lethal stable isotope analysis	Simon, Sage
48	Single parental cold exposure drives transgenerational rewiring of energy allocation across the tissue network in tilapia	Wang, Min-Chen
Sensing the environment: Altered waters and changing behaviours		
49	Hypoxia and CO ₂ /pH responses of S-NECs and gill raker chemosensory cells in rainbow trout (<i>O. mykiss</i>) gills	Brink, Deidre
50	Integrating automated behavioural tracking into standardized fish avoidance assays to expand behavioural endpoints	Castro Barquero, Pablo
51	Interregional comparison of gobiid fauna associated with alpheid shrimp burrows	Tamaki, Shotaro
52	Olfactory gene expression during three juvenile life stages in fall chinook	Obley, Miriam
Stress in fish I (regulation of HPI) and II (stress effects on physiology)		
53	Activation of the hypothalamic-pituitary-interrenal axis in fish embryos	Manzon, Rachel
54	Effects of prolonged heatwaves on facultative air-breathing, metabolism, and hypoxia tolerance in adult <i>Corydoras aeneus</i>	Rippamonti, Jessica
Stress in fish: A tribute to George Iwama		
55	Influences of embryonic ammonia exposure on Hypothalamic-Pituitary-Interrenal (HPI) axis gene expression in Atlantic salmon (<i>Salmo salar</i> L.)	Alipio, Hanna Ross
56	Hypoxia tolerance of salmonids within the Restigouche watershed: The role of thermal refuges	Stairs, Chandler
57	Developmental stage dictates the transcriptional response to chemical euthanasia stress in zebrafish embryos and larvae	Tort, Lluís
The fish gut: Digestion and beyond		
58	Effects of sodium propionate on fatty acid sensing mechanisms in rainbow trout proximal and distal intestinal cell lines	Blanco, Ayelén M.
59	Warming and food deprivation reshape gut barrier integrity and systemic metabolism in juvenile seabream	Guerreiro, Pedro M
60	Intestinal acid-base and nitrogenous waste regulation following blood feeding in sea lamprey, <i>Petromyzon marinus</i>	Quijada-Rodriguez, Alex
The physiology, biology and ecology of polar fish		
61	Compound effects of warming, hypoxia, and salinity on metabolic physiology in the Antarctic coastal fish <i>Harpagifer antarcticus</i>	Guerreiro, Pedro M
The physiology, ecology and control of invasive fish species		
62	Thermal plasticity with physiological trade-offs in the invasive cichlid <i>Australoheros facetus</i> under warming scenarios in Mediterranean-type rivers	Guerreiro, Pedro M
63	Changes in TFM tolerance & detoxification capacity of the bluegill (<i>Lepomis macrochirus</i>)	Curkovic, Gabriella
64	Characterizing the sensitivity of native, non-target lampreys to lampricides used to control invasive sea lamprey (<i>Petromyzon marinus</i>) in the Laurentian Great Lakes.	Kowalczyk, Sarah
Using behaviour and physiology to understand fish welfare		
65	Post-release welfare in marine recreational fisheries: integrating angling variables with physiological biomarkers in the two-banded seabream <i>Diplodus vulgaris</i>	Guerreiro, Pedro M

66	Links between forebrain monoaminergic activity and operational welfare indicators in farmed Atlantic salmon (<i>Salmo salar</i>)	Gundersen, Hannah N.
67	Effects of feeding time on diurnal expression of clock genes and lipid metabolism-related genes in the brain and peripheral tissues of Malabar grouper (<i>Epinephelus malabaricus</i>)	Lu, Siqi
68	Stress reactions in rainbow trout (<i>Oncorhynchus mykiss</i>) reared in enriched vs. barren environments underline the importance of behavioural observations for assessing coping ability and welfare status of fish	Olsen Methlie Wedaa, Louise
69	Behavioural responses of gilthead seabream (<i>Sparus aurata</i>) to the administration of painful stimuli	Saraiva, Joao
Vulnerability and adaptations of developmental stages to global change stressors		
70	How close is too close? Thermal injury accumulation and recovery near upper thermal limits in larvae and adult zebrafish.	Braz-Mota, Susana
71	Thermal performance of early life stage striped bass (<i>Morone saxatilis</i>)	Gaytan, Yvette
72	Effects of thermal challenge on burbot (<i>Lota lota</i>) egg survival and development	Hubert, Braden
73	Intermittent hypoxia modulates morphological and cardiorespiratory phenotypes in developing zebrafish (<i>Danio rerio</i>)	Horak, Bailey
74	Effects of developmental stage on thermal tolerance and thermal preference of larval burbot (<i>Lota lota</i>) and lake whitefish (<i>Coregonus clupeaformis</i>)	Simmons, Jonathan
75	Molecular signatures of early stress responses to emerging contaminants	Bertucci, Juan Ignacio