



COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY - PART C: TOXICOLOGY & PHARMACOLOGY

An International Journal

AUTHOR INFORMATION PACK

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DESCRIPTION

Comparative Biochemistry & Physiology (CBP) publishes papers in comparative, environmental and evolutionary physiology.

Part C: Toxicology and Pharmacology, focuses on toxicological mechanisms at different levels of organization, primarily chemical and drug action, biotransformation of xenobiotics, endocrine disruptors, nanoparticles, pharmaceuticals, and natural products chemistry. Most studies employ a molecular approach in combination with observations of higher levels of organization to assess the mechanism by which xenobiotics affect physiology. Analytical verification of exposure concentrations is strongly recommended for manuscripts reporting toxicological studies. All four CBP journals, receive editorial direction from all the major societies in the field [European Society for Comparative Physiology and Biochemistry](#), [Chinese Association for Physiological Sciences](#), [Japanese Society for Comparative Physiology and Biochemistry](#), [Canadian Society of Zoologists \(CBP Section\)](#), [Society for Experimental Biology](#), (formerly the [American Society for Zoologists](#)) [Society for Integrative and Comparative Biology](#), [Australian and New Zealand Society for Comparative Physiology and Biochemistry](#), [Russian Physiological Society](#).

Part A: Molecular & Integrative Physiology

Part B: Biochemistry & Molecular Biology

Part D: Genomics & Proteomics

AUDIENCE

Physiologists, Toxicologists, Pharmacologists, Biologists, Veterinary and Medical Researchers.

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Mechanisms of heavy metal homeostasis and toxicity, effects of environmental stressors on cell signaling and functions, pollutants and oxidative stress, utilization of biomarkers in biomonitoring programs, development of new bioassays

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Physiological, biochemical and molecular approaches to study stress in fish

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Comparative physiology. function of carbonic anhydrase

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Physiology, signal transduction, antioxidants, reactive oxygen species, oxidative stress, free radicals, lipid peroxidation, hypoxia, ischemia

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Oxygen transport, comparative and evolutionary approaches, modelling physiological systems

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Fish, molecular breeding, reproductive endocrinology, sex determination, sex differentiation, sex reversal, primordial germ cells, gene transfer, gene editing

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Physiology and nutrition of aquacultured and wild fishes

Judit Smits, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

Ecotoxicology

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Environmental physiology and toxicology of marine organisms, adaptation to environmental stressors, effects of environmental change

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Biochemical and physiological adaptation to physical and chemical stressors

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aquaculture, biological rhythm, circadian, coral reef, fish, gonadotropin, lunar cycle, melatonin, ovary, reproduction, sex steroids, tide, Internal and external regulation of enigmatic rhythms in fish and marine invertebrates, reproductive physiology, biological clock

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Oxidative stress

GUIDE FOR AUTHORS

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Lushchak, V.I. 2011. Adaptive response to oxidative stress: Bacteria, fungi, plants and animals. *Comp. Biochem. Physiol. C* 153, 175-190.

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