DESCRIPTION

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

Part A: Molecular and Integrative Physiology (CBPA), focuses on physiological systems, including behavior, circulation, development, excretion, ion regulation, endocrinology, locomotory, nervous, nutrition, respiration, and thermal biology. Most studies address regulatory mechanisms and span multiple levels of biological organization.

All four CBP journals support and follow the editorial direction from all the major societies in the field: Australia & New Zealand Society of Comparative Physiology and Biochemistry (ANZSCPB) American Physiological Society (APS) Canadian Society of Zoologists (CSZ) Deutsche Zoologische Gesellschaft (DZG) European Society of Comparative Physiology and Biochemistry (ESCPB) Japanese Society for Comparative Physiology and Biochemistry (JSCPB) South American Society for Comparative Physiology and Biochemistry (SASCPB) Societe de Physiologie (SDP) Society for Experimental Biology (SEB) Society for Integrative & Comparative Biology (SICB)

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Kendra Greenlee, North Dakota State University Department of Biological Sciences, Fargo, North Dakota, United States
Evolutionary and ecological physiology

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Environmental stress influence on immune system in amphibians

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Applied biology, toxicology, pest management

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Jae-Seong Lee, Sungkyunkwan University College of Natural Science, Suwon, Korea, Republic of
Molecular ecotoxicology, comparative genomics, rotifers, copepods, killifish, oxidative stress, mechanistic toxicity, lipid metabolism, microplastics, emerging chemicals, ocean acidification

Xuefang Liang, Inner Mongolia University, Hohhot, China
Aquatic toxicity testing technology, chemical and pesticide safety evaluation, Molecular ecotoxicology, Toxicogenomics

Harvey Lillywhite, University of Florida, Gainesville, Florida, United States
Water balance, skin, cardiovascular, gravity, reptiles, snakes, frogs, physiological ecology, comparative physiology, herpetology, functional morphology

Ed Mager, University of North Texas, Denton, Texas, United States
Fish physiology, ecotoxicology, PAHs, crude oil, metals, water quality

Grant McClelland, McMaster University, Hamilton, Ontario, Canada
Ontogeny, Phenotypic plasticity and evolution of muscle metabolism, Integrative animal physiology, Biochemistry, Molecular biology

Marshall McCue, Sable Systems International, North Las Vegas, Nevada, United States
Comparative and evolutionary physiology, food and nutrition, bioenergetics, metabolism

Danielle McDonald, University of Miami Marine Biology and Fisheries, Miami, Florida, United States
Whole animal physiology, transport and receptor physiology, stress, serotonin, pharmacology, pharmaceutical toxicology, PAH toxicology

Matteo Minghetti, Oklahoma State University Stillwater, Stillwater, Oklahoma, United States
Metal homeostasis, fish physiology, cell biology, molecular ecotoxicology

Carlos Navas, University of São Paulo, São Paulo, Brazil
Physiological ecology, herpetology, ecological climate change, thermal physiology, thermal ecology

Fernando G. Noriega, Florida International University, Miami, Florida, United States
Physiology, mosquitoes, hormones
Kristin O'Brien, University of Alaska Fairbanks, Fairbanks, Alaska, United States
Fish physiology and biochemistry, adaptations to cold temperature, bioenergetics

Mahoko Osada, Tohoku University, Miyagi, Japan
Desert physiology, thermal physiology, ecophysiology, water balance, nutrition

Jason Podrabsky, Portland State University Department of Biology, Portland, Oregon, United States
Effects of climate warming, ocean acidification, and hypoxia on marine animals and ecosystems

Gregory Pyle, University of Lethbridge, Lethbridge, Alberta, Canada
Fish, aquatic invertebrates, amphibians, olfaction, chemical communication, behaviour, chemosensory neurophysiology, aquatic ecotoxicology, metals, oil sands, hydrocarbons

Jeffrey Richards, The University of British Columbia, Vancouver, British Columbia, Canada
Molecular mechanisms of cellular responses to environmental stress

Matthew L. Rise, Memorial University of Newfoundland, St John's, Newfoundland and Labrador, Canada
Genomics, reproduction, development, growth, responses to pathogens and environmental stressors

Aaron Roberts, University of North Texas, Denton, Texas, United States
Ecotoxicology, effects of environmental stressors on aquatic organisms

Comprehensive list of researchers and their research interests is provided.
Deshou Wang, Southwest University, Chongqing, China
Fish endocrinology and reproduction, Sex determination and differentiation, Sex steroids

Shi Wang, Ocean University of China, Qingdao, China
Marine Genomics, Genome Sequencing, Genotyping, Gene Expression, Epigenetics, Evolution, Shellfish

Shiqiang Wang, Peking University, Beijing, China
Hibernation, calcium signaling, live cell imaging, excitation-contraction coupling

Tobias Wang, Aarhus University, Aarhus, Denmark
Human cellular physiology, comparative animal physiology, ecological physiology, comparative biochemistry

Daniel Warren, Saint Louis University, Saint Louis, Missouri, United States
Human cellular physiology, comparative animal physiology, ecological physiology, comparative biochemistry

Shugo Watabe, Kitasato University School of Marine Biosciences Graduate School of Marine Biosciences, Ofunato, Japan
Muscle biochemistry, environmental adaptation, marine genomics and biotechnology

Andrew Whitehead, University of California Davis, Davis, California, United States
Genomics, comparative genomics

Philip Withers, University of Western Australia, Dept. of Zoology, Crawley, Western Australia, Australia
Comparative physiology, amphibians and reptiles, metabolism, thermoregulation, water and solute balance, phylogenetic methods, biostatistics

Tianjun Xu, Shanghai Ocean University, Shanghai, China
Innate immune; Signaling pathway; Molecular regulation; Immune gene evolution; Non-coding RNA; microRNA

Kohji Yamamoto, Kyushu University, Fukuoka, Japan

Feng You, Chinese Academy of Sciences Institute of Oceanology Key Laboratory of Experimental Marine Biology, Qingdao, China
Fish chromosome manipulation, fish endocrinology, fish gonadal differentiation, fish sex control, fish breeding, fish population genetics

Tania Zenteno-Savín, Biological Research Centre of the Northwest, La Paz, Mexico
Oxidative stress
GUIDE FOR AUTHORS

INTRODUCTION
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The journal publishes original articles emphasizing comparative and environmental aspects of the physiology, biochemistry, molecular biology, pharmacology, toxicology and endocrinology of animals. Adaptation and evolution as organizing principles are encouraged. Studies on other organisms will be considered if approached in a comparative context.

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Part B. Biochemistry and Molecular Biology covers biochemical and molecular biological aspects of metabolism, enzymology, regulation, nutrition, signal transduction, promoters, gene structure and regulation, metabolite and cell constituents, macromolecular structures, adaptational mechanisms and evolutionary principles.

Part C. Toxicology and Pharmacology covers chemical and drug action at different levels of organization, biotransformation of xenobiotics, mechanisms of toxicity, including reactive oxygen species and carcinogenesis, endocrine disruptors, natural products chemistry, and signal transduction. A molecular approach to these fields is encouraged. Measured rather than nominal exposure concentrations of toxicants must be reported whenever possible. For water-borne exposures of aquatic organisms, reporting of detailed chemistry data for the exposure waters is encouraged. When reporting data obtained from bioassays (e.g., LC50 tests), raw data (i.e., the value of the measured biological response variable(s) for each treatment and each observation time) should be submitted as online supplementary material.

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