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# DESCRIPTION

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

**Part D: Genomics and Proteomics (CBPD)**, focuses on “omics” approaches to physiology, including comparative and functional genomics, metagenomics, transcriptomics, proteomics, metabolomics, and lipidomics. Most studies employ “omics” and/or system biology to test specific hypotheses about molecular and biochemical mechanisms underlying physiological responses to the environment. We encourage papers that address fundamental questions in comparative physiology and biochemistry rather than studies with a focus that is purely technical, methodological or descriptive in nature. 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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- Part B (CBPB): Biochemistry & Molecular Biology
- Part C (CBPC): Toxicology & Pharmacology
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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.

**Part A. Molecular and Integrative Physiology** covers molecular, cellular, integrative, and ecological physiology. Topics include bioenergetics, circulation, development, excretion, ion regulation, endocrinology, neurobiology, nutrition, respiration, and thermal biology. Studies on regulatory mechanisms at any level or organization such as signal transduction and cellular interactions and control of behaviour are encouraged.

**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.

**Part D. Genomics and Proteomics** covers the broader comprehensive approaches to comparative biochemistry and physiology that can be generally termed as "-omics", e.g., genomics, functional genomics (transcriptomics), proteomics, metabolomics, and underlying bioinformatics. Papers dealing with fundamental aspects and hypotheses in comparative physiology and biochemistry are encouraged rather than studies whose main focus is purely technical or methodological.

Naturally, a certain degree of overlap exists between the different sections, and the final decision as to where a particular manuscript will be published after passing the rigorous review process lies with the editorial office.

*Types of articles published in CBP journals*

A **Research Paper** is a paper that focuses on an experimental question of broad interest to the comparative physiology community.
- Word count (excluding references): typically 4000 -8000 words, with at least 2 figures / tables.
- Papers are normally subdivided into sections titled: Abstract, Introduction, Materials and Methods, Results, Discussion, and References. Results and discussion may be combined if appropriate.

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**PREPARATION**

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This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of one independent expert reviewer to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. More information on types of peer review.

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State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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**Theory/calculation**
A Theory section should extend, not repeat, the background to the article already dealt with in the Introduction and lay the foundation for further work. In contrast, a Calculation section represents a practical development from a theoretical basis.

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Results should be clear and concise.

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