



# COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY - PART D: GENOMICS AND PROTEOMICS

An International Journal

## AUTHOR INFORMATION PACK

### TABLE OF CONTENTS

●	<b>Description</b>	<b>p.1</b>
●	<b>Impact Factor</b>	<b>p.1</b>
●	<b>Abstracting and Indexing</b>	<b>p.2</b>
●	<b>Editorial Board</b>	<b>p.2</b>
●	<b>Guide for Authors</b>	<b>p.4</b>



ISSN: 1744-117X

### DESCRIPTION

CBP publishes papers in comparative, environmental and evolutionary physiology. *Part D: Genomics and Proteomics* 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.

*Comparative Biochemistry & Physiology*, with its four sections, receives editorial direction from all the major societies in the field ([European Society for Comparative Physiology and Biochemistry](#), the [Japanese Society for Comparative Physiology and Biochemistry](#), [Canadian Society of Zoologists \(CBP Section\)](#), the [Society for Experimental Biology](#), the [Society for Integrative and Comparative Biology](#) (formerly the [American Society for Zoologists](#)), the [Australian and New Zealand Society for Comparative Physiology and Biochemistry](#), the [South American Society for Comparative Physiology & Biochemistry](#), the [Russian Physiological Society](#), and the [Chinese Association for Physiological Sciences](#))

Part A: [Molecular & Integrative Physiology](#)

Part B: [Biochemistry & Molecular Biology](#)

Part C: [Toxicology & Pharmacology](#)

### IMPACT FACTOR

2016: 2.857 © Thomson Reuters Journal Citation Reports 2017

## ABSTRACTING AND INDEXING

---

Abstracts on Hygiene and Communicable Diseases  
Animal Breeding Abstracts  
Biochemistry & Biophysics Citation Index  
Current Contents  
Dairy Science Abstracts  
Immunology Abstracts  
Index Veterinarius  
EMBASE  
Entomology Abstracts  
Genetics Abstracts  
Protozoological Abstracts  
Review of Medical and Veterinary Mycology  
Tropical Diseases Bulletin  
Veterinary Bulletin  
Excerpta Medica  
Biological Abstracts  
CAB Abstracts  
BIOSIS Previews  
Calcium and Calcified Tissue  
Reactions Weekly  
Scopus  
Global Health  
Nutrition Abstracts and Reviews Series  
Poultry Abstracts  
Zoological Record  
EMBiology  
British Library Inside  
CSA Neurosciences Abstracts  
Abstracts of Mycology  
CISTI  
ISI

## EDITORIAL BOARD

---

### *Editor-in-Chief:*

**Chris Martyniuk**, University of Florida, Gainesville, Florida, USA

### *Associate Editors:*

**Jordi Altimiras**, Linköpings Universitet, Linköping, Sweden

**Gary Anderson**, University of Manitoba, Winnipeg, Manitoba, Canada

**Nicholas Bernier**, University of Guelph, Guelph, Ontario, Canada

**David Buchwalter**, North Carolina State University, Raleigh, North Carolina, USA

**Paul Else**, University of Wollongong, Wollongong, New South Wales, Australia

**Elena Fabbri**, Università di Bologna, Ravenna, Italy

**Peter Fields**, Franklin & Marshall College, Lancaster, Pennsylvania, USA

**Donald Mykles**, Colorado State University, Fort Collins, Colorado, USA

**Matthew L. Rise**, Memorial University of Newfoundland, St. John's, NL, Canada

**Holly Shiels**, University of Manchester, Manchester, England, UK

**Aldo Viarengo**, Università degli Studi del Piemonte Orientale, Alessandria, Italy

### *International Editorial Board:*

**B.M. Barnes**, University of Alaska Fairbanks, Fairbanks, Alaska, USA

**M. Berenbrink**, University of Liverpool, Liverpool L69 3BX, UK

**K. Bicego**, Universidade Estadual Paulista (UNESP), Jaboticabal - SP, Brazil

**F. Bozinovic**, Pontificia Universidad Católica de Chile, Santiago, Chile

**K. Brix**, University of British Columbia, Vancouver, British Columbia, Canada

**L.T. Buck**, University of Toronto, Toronto, Ontario, Canada

**B. Buckley**, Portland State University, Oregon, Oregon, USA

**K.G. Burnett**, College of Charleston, Charleston, South Carolina, USA

**L.E. Burnett**, Grice Marine Laboratory, Charleston, South Carolina, USA

**N.R. Bury**, University of Suffolk, Ipswich, UK  
**K. Campbell**, University of Manitoba, Winnipeg, Canada  
**J.M. Conlon**, Ulster University, Coleraine, Co. Londonderry, Northern Ireland, UK  
**C. Cooper**, Curtin University, Perth, Western Australia, Australia  
**D. E. Crocker**, Sonoma State University, Rohnert Park, California, USA  
**D. Crossley**, University of North Texas, Denton, Texas, USA  
**S. Currie**, Mount Allison University, Sackville, New Brunswick, Canada  
**A. Donini**, York University, Downsview, Ontario, Canada  
**S.L. Edwards**, Appalachian State University, Boone, North Carolina, USA  
**A. Esbaugh**, University of Texas at Austin, Port Aransas, Texas, USA  
**F. Geiser**, University of New England, Armidale, New South Wales, Australia  
**T. Gillis**, University of Guelph, Guelph, Ontario, Canada  
**K.M. Gilmour**, University of Ottawa, Ottawa, Ontario, Canada  
**C.N. Glover**, University of Canterbury, Christchurch, New Zealand  
**K. Greenlee**, North Dakota State University, Fargo, North Dakota, USA  
**H. Guderley**, Université Laval, Ste. Foy, Quebec, Canada  
**R.P. Henry**, Auburn University, Auburn, Alabama, USA  
**M. Hermes-Lima**, Universidade de Brasilia, Brasilia, Brazil  
**J.W. Hicks**, University of California at Irvine, Irvine, California, USA  
**P.P. Hwang**, Academia Sinica, Nankang, Taipei, Taiwan  
**A.Y.K. Ip**, National University of Singapore, Singapore, Singapore  
**C.J. Kennedy**, Simon Fraser University, Burnaby, British Columbia, Canada  
**G.H. Laverty**, University of Delaware, Newark, Delaware, USA  
**J.-S. Lee**, Sungkyunkwan University (SKKU), Suwon, The Republic of Korea  
**H.B. Lillywhite**, University of Florida, Gainesville, Florida, USA  
**V.I. Lushchak**, Precarpathian National University, Ivano-Frankivsk, Ukraine  
**D.L. MacLatchy**, Wilfrid Laurier University, Waterloo, Ontario, Canada  
**E. Mager**, University of North Texas, Denton, Texas, USA  
**G.B. McClelland**, McMaster University, Hamilton, Canada  
**M. McCue**, St Mary's University, San Antonio, Texas, USA  
**M. D. McDonald**, University of Miami, Miami, Florida, USA  
**C.A. Navas**, Universidade de São Paulo (USP), Sao Paulo, Brazil  
**K.M. O'Brien**, University of Alaska Fairbanks, Fairbanks, Alaska, USA  
**B. Pinshow**, Ben Gurion University of the Negev, Beer Sheva, Israel  
**J.E. Podrabsky**, Portland State University, Oregon, Oregon, USA  
**H.-O. Pörtner**, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany  
**G. Pyle**, University of Lethbridge, Lethbridge, Alberta, Canada  
**J. Richards**, University of British Columbia, Vancouver, British Columbia, Canada  
**A. Roberts**, University of North Texas, Denton, Texas, USA  
**R.M. Robertson**, Queen's University, Kingston, Ontario, Canada  
**K. Schuller**, Flinders University, Adelaide, South Australia, Australia  
**P. Schulte**, University of British Columbia, Vancouver, British Columbia, Canada  
**P.J. Schwarzbaum**, Universidad de Buenos Aires, Buenos Aires, Argentina  
**G. Scott**, McMaster University, Hamilton, Ontario, Canada  
**F. Seebacher**, The University of Sydney, Sydney, New South Wales, Australia  
**H. Segner**, Universität Bern, Bern, Switzerland  
**T. Serebrovskaya**, Bogomoletz Institute of Physiology, Kiev, Ukraine  
**K.A. Sloman**, University of the West of Scotland, (West) Paisley, Scotland, UK  
**B.C. Small**, University of Idaho, Moscow, Idaho, USA  
**J.E.G. Smits**, University of Saskatchewan, Saskatoon, Saskatchewan, Canada  
**I. Sokolova**, Universität Rostock, Rostock, Germany  
**G.N. Somero**, Stanford University, Pacific Grove, California, USA  
**T. Suzuki**, Kochi University, Kochi, Japan  
**Y. Takei**, University of Tokyo, Chiba, Japan  
**A. Takemura**, University of the Ryukyus, Okinawa, Japan  
**G. Van Der Kraak**, University of Guelph, Guelph, Ontario, Canada  
**V. Vieira**, University of St. Andrews, St. Andrews, Scotland, UK  
**M. M. Vijayan**, University of Calgary, Calgary, Alberta, Canada  
**S.Q. Wang**, Peking University, Beijing, China  
**T. Wang**, Aarhus University, Århus C, Denmark  
**D. Warren**, Saint Louis University, St. Louis, Missouri, USA  
**S. Watabe**, Kitasato University, Kanagawa, Tokyo, Japan  
**A. Whitehead**, University of California, Davis, Davis, California, USA  
**P.C. Withers**, University of Western Australia, Crawley, Western Australia, Australia  
**T. Zenteno-Savín**, Centro de Investigaciones Biológicas del Noroeste, S.C. (CIBNOR), Playa Palo Santa Rita, La Paz, Baja California Sur, Mexico

## GUIDE FOR AUTHORS

---

Please bookmark this URL: <http://www.elsevier.com/locate/cbpd>

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 paper*

The CBP journals publish original articles and review articles.

### **Review articles:**

Before writing their manuscripts, potential authors of review articles should contact one of the editors who, after consultations with the other CBP editors and/or members of the CBP Editorial Board, will provide feedback on suitability of the topic. Reviews should be topical, and serve as critical appraisals of areas of research. They should provide an up-to-date analysis of concepts and point out future directions.

### **Contact details for submission**

Manuscripts are to be submitted to the CBP Editorial Office electronically at <http://editorialexpress.com/cbp>.

After registration, authors are asked to upload their **complete** article (including tables and associated artwork) in a **single PDF file** to be used directly for the reviewing process. The file must include line numbers; file size should be below 20 mb. Additional files with supplemental information to be published as electronic material (sequences, etc) are permitted; file number is limited to 5, but multiple files can be combined (zip or RAR). Supporting manuscripts, i.e. concurrently under consideration with other journals or *in press* must be submitted as separate PDF files.

## BEFORE YOU BEGIN

### *Ethics in publishing*

Please see our information pages on [Ethics in publishing](#) and [Ethical guidelines for journal publication](#).

### *Human and animal rights*

If the work involves the use of human subjects, the author should ensure that the work described has been carried out in accordance with [The Code of Ethics of the World Medical Association](#) (Declaration of Helsinki) for experiments involving humans; [Uniform Requirements for manuscripts submitted to Biomedical journals](#). Authors should include a statement in the manuscript that informed consent was obtained for experimentation with human subjects. The privacy rights of human subjects must always be observed.

All animal experiments should comply with the [ARRIVE guidelines](#) and should be carried out in accordance with the U.K. Animals (Scientific Procedures) Act, 1986 and associated guidelines, [EU Directive 2010/63/EU for animal experiments](#), or the National Institutes of Health guide for the care and use of Laboratory animals (NIH Publications No. 8023, revised 1978) and the authors should clearly indicate in the manuscript that such guidelines have been followed.

### *Declaration of interest*

All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. If there are no conflicts of interest then please state this: 'Conflicts of interest: none'. [More information](#).

### *Submission declaration*

Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as part of a published lecture or academic thesis or as an electronic preprint, see '[Multiple, redundant or concurrent publication](#)' section of our ethics policy for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere including electronically in the same form, in English or in any other language, without the written consent of the copyright-holder.

### *Changes to authorship*

Authors are expected to consider carefully the list and order of authors **before** submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only **before** the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the **corresponding author**: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.

Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors **after** the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.

### *Copyright*

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (see [more information](#) on this). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. [Permission](#) of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations. If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has [preprinted forms](#) for use by authors in these cases.

For open access articles: Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' ([more information](#)). Permitted third party reuse of open access articles is determined by the author's choice of [user license](#).

### **Author rights**

As an author you (or your employer or institution) have certain rights to reuse your work. [More information](#).

#### *Elsevier supports responsible sharing*

Find out how you can [share your research](#) published in Elsevier journals.

### **Role of the funding source**

You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

#### *Funding body agreements and policies*

Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the Open Access Publication Fee. Details of [existing agreements](#) are available online.

### **Open access**

This journal offers authors a choice in publishing their research:

#### **Subscription**

- Articles are made available to subscribers as well as developing countries and patient groups through our [universal access programs](#).
- No open access publication fee payable by authors.

#### **Open access**

- Articles are freely available to both subscribers and the wider public with permitted reuse.
- An open access publication fee is payable by authors or on their behalf, e.g. by their research funder or institution.

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.

For open access articles, permitted third party (re)use is defined by the following [Creative Commons user licenses](#):

#### *Creative Commons Attribution (CC BY)*

Lets others distribute and copy the article, create extracts, abstracts, and other revised versions, adaptations or derivative works of or from an article (such as a translation), include in a collective work (such as an anthology), text or data mine the article, even for commercial purposes, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, and do not modify the article in such a way as to damage the author's honor or reputation.

#### *Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)*

For non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

The open access publication fee for this journal is **USD 3000**, excluding taxes. Learn more about Elsevier's pricing policy: <http://www.elsevier.com/openaccesspricing>.

#### *Green open access*

Authors can share their research in a variety of different ways and Elsevier has a number of green open access options available. We recommend authors see our [green open access page](#) for further information. Authors can also self-archive their manuscripts immediately and enable public access from their institution's repository after an embargo period. This is the version that has been accepted for publication and which typically includes author-incorporated changes suggested during submission, peer review and in editor-author communications. Embargo period: For subscription

articles, an appropriate amount of time is needed for journals to deliver value to subscribing customers before an article becomes freely available to the public. This is the embargo period and it begins from the date the article is formally published online in its final and fully citable form. [Find out more](#).

This journal has an embargo period of 12 months.

#### *Elsevier Publishing Campus*

The Elsevier Publishing Campus ([www.publishingcampus.com](http://www.publishingcampus.com)) is an online platform offering free lectures, interactive training and professional advice to support you in publishing your research. The College of Skills training offers modules on how to prepare, write and structure your article and explains how editors will look at your paper when it is submitted for publication. Use these resources, and more, to ensure that your submission will be the best that you can make it.

#### *Language (usage and editing services)*

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the [English Language Editing service](#) available from Elsevier's WebShop.

#### **Informed consent and patient details**

Studies on patients or volunteers require ethics committee approval and informed consent, which should be documented in the paper. Appropriate consents, permissions and releases must be obtained where an author wishes to include case details or other personal information or images of patients and any other individuals in an Elsevier publication. Written consents must be retained by the author and copies of the consents or evidence that such consents have been obtained must be provided to Elsevier on request. For more information, please review the [Elsevier Policy on the Use of Images or Personal Information of Patients or other Individuals](#). Unless you have written permission from the patient (or, where applicable, the next of kin), the personal details of any patient included in any part of the article and in any supplementary materials (including all illustrations and videos) must be removed before submission.

#### *Submission*

Manuscripts are to be submitted to the CBP Editorial Office electronically at <http://editorialexpress.com/cbp>. After registration, authors are asked to upload their **complete** article (including tables and associated artwork) in a **single PDF file** to be used directly for the reviewing process. The file must include line numbers; file size should be below 20 mb. Additional files with supplemental information to be published as electronic material (sequences, etc) are permitted; file number is limited to 5, but multiple files can be combined (zip or RAR). Supporting manuscripts, i.e. concurrently under consideration with other journals or *in press* must be submitted as separate PDF files.

Full instructions on how to use the online submission tool are available at the above web address or can be requested by e-mail from the CBP Editorial Office [CBPjrn12@gmail.com](mailto:CBPjrn12@gmail.com). During the submission process, authors are asked to select an appropriate section of CBP and to provide names and address (including e-mail) of at least five researchers of recognized competence who may be considered as reviewers.

#### *Referees*

Please submit, with the manuscript, the names, addresses and e-mail addresses of five potential referees. Note that the editors retain the sole right to decide whether or not the suggested reviewers are used.

## **PREPARATION**

### **Peer review**

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](#).

### **Use of word processing software**

Initial submission must be as a single, complete PDF file. When using word-processing software, it is important that the file be saved in the native format of the word processor used (e.g. doc, docx, odt, etc). The text should be in single-column format and layout of the text should be

kept as simple as possible. Authors should not use the word processor's options to justify text or to hyphenate words. However, bold face, italics, subscripts, superscripts etc. can be included. When preparing tables, if you are using a table grid, use only one grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier: <http://www.elsevier.com/guidepublication>). Note that source files of figures, table and text graphics will be required for publication, but are not needed during the review process. Most word-processing programmes (Word, Word-Perfect, OpenOffice, LibreOffice, etc.) possess built in PDF makers. Resulting PDF files should be checked very carefully, especially for transposition of mathematical and other symbols and non-standard characters. SI units must be used.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

## **Article structure**

### *Introduction*

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

### *Material and methods*

Provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference: only relevant modifications should be described.

### *Statistics*

Submissions are incomplete without detailed information on independent replication of experiments, statistical approaches and statistical analysis.

### *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.

### *Results*

Results should be clear and concise.

### *Discussion*

This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

### *Conclusions*

The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

### *Appendices*

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

## **Essential title page information**

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- **Author names and affiliations.** Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.
- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. **Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.**
- **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.



If submitting a Review article, write "REVIEW" at the top of the title page.

### **Abstract**

A concise and factual abstract of a maximum of 250 words is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

The abstract should be a single paragraph not exceeding 250 words.

Up to eight key words, which may or may not appear in the title, should be listed in alphabetical order after the abstract. Only these key words, together with the title, will be used for indexing purposes.

### *Abbreviations*

Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

### *Acknowledgements*

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

### *Formatting of funding sources*

List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

### **Genbank**

#### **DNA sequences and GenBank Accession numbers**

Many Elsevier journals cite "gene accession numbers" in their running text and footnotes. Gene accession numbers refer to genes or DNA sequences about which further information can be found in the database at the National Center for Biotechnical Information (NCBI) at the National Library of Medicine. Elsevier authors wishing to enable other scientists to use the accession numbers cited in their papers via links to these sources, should type this information in the following manner:

For each and every accession number cited in an article, authors should type the accession number in **bold, underlined text**. Letters in the accession number should always be capitalised. (See Example 1 below). This combination of letters and format will enable Elsevier's typesetters to recognize the relevant texts as accession numbers and add the required link to GenBank's sequences.

*Example 1:* "B-cell tumor from a chronic lymphatic leukemia (GenBank accession no. **BE675048** ), and a T-cell lymphoma (GenBank accession no. **AA361117** )".

Authors must check accession numbers very carefully. **An error in a letter or number can result in a dead link.**

In the final version of the **printed article**, the accession number text will not appear bold or underlined (see Example 2 below).

*Example 2:* "B-cell tumor from a chronic lymphatic leukemia (GenBank accession no. BE675048), and a T-cell lymphoma (GenBank accession no. AA361117)".

In the final **electronic copy**, the accession number text will be linked to the appropriate source in the NCBI databases enabling readers to go directly to that source from the article (see Example 3 below).

*Example 3:* "B-cell tumor from a chronic lymphatic leukemia (GenBank accession no. BE675048), and a T-cell lymphoma (GenBank accession no. AA361117)".

#### *Footnotes*

Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors can build footnotes into the text, and this feature may be used. Otherwise, please indicate the position of footnotes in the text and list the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

### **Artwork**

#### *Electronic artwork*

##### *General points*

- Make sure you use uniform lettering and sizing of your original artwork.
- Embed the used fonts if the application provides that option.
- Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files.
- Provide captions to illustrations separately.
- Size the illustrations close to the desired dimensions of the published version.
- Submit each illustration as a separate file.

A detailed [guide on electronic artwork](#) is available.

**You are urged to visit this site; some excerpts from the detailed information are given here.**

#### *Formats*

If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.

Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

EPS (or PDF): Vector drawings, embed all used fonts.

TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.

TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.

TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

#### **Please do not:**

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
- Supply files that are too low in resolution;
- Submit graphics that are disproportionately large for the content.

#### *Color artwork*

Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF), or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color online (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. **For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article.** Please indicate your preference for color: in print or online only. [Further information on the preparation of electronic artwork.](#)

As only one figure caption is used for both colour and black and white versions of figures, please ensure that the figure captions are meaningful for both versions, if applicable.

### *Figure captions*

Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. A caption should comprise a brief title (**not** on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.

### **Tables**

Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

### **References**

#### *Citation in text*

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

#### *Web references*

As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

#### *Data references*

This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

#### *References in a special issue*

Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

#### *Reference management software*

Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support [Citation Style Language styles](#), such as [Mendeley](#) and [Zotero](#), as well as [EndNote](#). Using the word processor plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal's style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide.

1. All publications cited in the text should be presented in alphabetical order in a list following the text of the manuscript.
2. In the text refer to the author's name and year of publication.
3. If reference is made in the text to a publication written by more than two authors the name of the first author should be used followed by "et al.". In this list names of first authors and all co-authors should be mentioned.
4. References cited together in the text should be arranged chronologically.
5. The List of references should be arranged alphabetically on authors' names, and chronologically per author. Names of all authors must be included. Do not use et al. Publications by the same author(s) in the same year should be listed as 2000a, 2000b, etc. Follow the relevant examples below.

Axelsson, M., Farrell, A.P., 1993. Coronary blood flow in vivo in the coho salmon (*Oncorhynchus kisutch*). *Am. J. Physiol.* 264, R963 - 971.

Hiramatsu, N., Cheek, A.O., Sullivan, C.V., Matsubara, T., Hara, A., 2005. Vitellogenesis and endocrine disruption. In: Mommsen, T.P., Moon, T.W. (Eds.), *Biochemistry and Molecular Biology of Fishes*, vol. 6. Environmental Toxicology, Elsevier, Amsterdam, pp. 431-471.

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

Moyle, P.B., Cech, J.J., 2004. *Fishes. An introduction to ichthyology*. 5th ed. Prentice Hall, Upper Saddle River, NJ.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:

<http://open.mendeley.com/use-citation-style/comparative-biochemistry-and-physiology-part-d-genomics-and>

When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

### **Reference style**

**Reference style** (see sample manuscript link)

Name and year style in the text

**Text:** All citations in the text should refer to:

1. Single author: the author's name (without initials, unless there is ambiguity) and the year of publication;
2. Two authors: both authors' names and the year of publication;
3. Three or more authors: first author's name followed by 'et al.' and the year of publication. Citations may be made directly (or parenthetically). Groups of references should be listed first alphabetically, then chronologically. Examples: 'as demonstrated (Allan, 2000a, 2000b, 1999; Allan and Jones, 1999). Kramer et al. (2010) have recently shown ...'

**List:** References should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication. Note that any (consistent) reference style and format may be used: the Publisher will ensure that the correct style for this journal will be introduced for the proof stages, the final print version and the PDF files for electronic distribution.

*Journal abbreviations source*

Journal names should be abbreviated according to the [List of Title Word Abbreviations](#).

### **Video**

Elsevier accepts video material and animation sequences to support and enhance your scientific research. Authors who have video or animation files that they wish to submit with their article are strongly encouraged to include links to these within the body of the article. This can be done in the same way as a figure or table by referring to the video or animation content and noting in the body text where it should be placed. All submitted files should be properly labeled so that they directly relate to the video file's content. In order to ensure that your video or animation material is directly usable, please provide the files in one of our recommended file formats with a preferred maximum size of 150 MB in total. Any single file should not exceed 50 MB. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including [ScienceDirect](#). Please supply 'stills' with your files: you can choose any frame from the video or animation or make a separate image. These will be used instead of standard icons and will personalize the link to your video data. For more detailed instructions please visit our [video instruction pages](#). Note: since video and animation cannot be embedded in the print version of the journal, please provide text for both the electronic and the print version for the portions of the article that refer to this content.

### **Supplementary material**

Supplementary material such as applications, images and sound clips, can be published with your article to enhance it. Submitted supplementary items are published exactly as they are received (Excel or PowerPoint files will appear as such online). Please submit your material together with the article and supply a concise, descriptive caption for each supplementary file. If you wish to make changes to supplementary material during any stage of the process, please make sure to provide an updated file. Do not annotate any corrections on a previous version. Please switch off the 'Track Changes' option in Microsoft Office files as these will appear in the published version.

### *Data linking*

If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.

There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the [database linking page](#).

For [supported data repositories](#) a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).

## **ARTICLE ENRICHMENTS**

### **AudioSlides**

The journal encourages authors to create an AudioSlides presentation with their published article. AudioSlides are brief, webinar-style presentations that are shown next to the online article on ScienceDirect. This gives authors the opportunity to summarize their research in their own words and to help readers understand what the paper is about. [More information and examples are available](#). Authors of this journal will automatically receive an invitation e-mail to create an AudioSlides presentation after acceptance of their paper.

### **Interactive Phylogenetic Trees**

You can enrich your online articles by providing phylogenetic tree data files (optional) in Newick or NeXML format, which will be visualized using the interactive tree viewer embedded within the online article. Using the viewer it will be possible to zoom into certain tree areas, change the tree layout, search within the tree, and collapse/expand tree nodes and branches. Submitted tree files will also be available for downloading from your online article on ScienceDirect. Each tree must be contained in an individual data file before being uploaded separately to the online submission system, via the 'phylogenetic tree data' submission category. Newick files must have the extension .new or .nwk (note that a semicolon is needed to end the tree). Please do not enclose comments in Newick files and also delete any artificial line breaks within the tree data because these will stop the tree from showing. For NeXML, the file extension should be .xml. Please do not enclose comments in the file. Tree data submitted with other file extensions will not be processed. Please make sure that you validate your Newick/NeXML files prior to submission. [More information](#).

### **Interactive plots**

This journal enables you to show an Interactive Plot with your article by simply submitting a data file. [Full instructions](#).

### **Submission check list at a glance**

The following list will be useful during the final checking of an article prior to uploading it to the journal's website <http://editorialexpress.com/cbp>. Please consult this Guide for Authors for further details of any item.

### **Ensure that the single, complete PDF file contains:**

One author designated as the corresponding author with complete contact details (email address, full postal address, phone and fax numbers)  
Keywords  
Line numbers  
All figures  
All figure captions  
All tables (including title, description, footnotes)  
References in proper format (in text and in reference section)

### **For successful electronic submission, authors also have to have to hand:**

cover letter (pdf or word-processing format) for upload or cut-and-paste  
list of 5 or more researchers (names, affiliations and e-mail address), with expertise in the areas covered in the manuscript and who might be considered as suitable referees for the manuscript

### **Further considerations:**

Manuscript has been 'spell-checked' and 'grammar-checked'. References are in the correct format for this journal. All references mentioned in the Reference list are cited in the text, and vice versa. Permission has been obtained for use of copyrighted material from other sources (including the Web). Colour figures are clearly marked as being intended for colour reproduction on the Web (free of charge) and in print, or to be reproduced in colour on the Web (free of charge) and in black-and-white print. If only colour in the Web is required, black-and-white versions of the figures are also supplied for printing purposes.

For any other information please visit our customer support site at <http://support.elsevier.com>

## **AFTER ACCEPTANCE**

### **Online proof correction**

Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.

If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

### **Offprints**

The corresponding author will, at no cost, receive a customized [Share Link](#) providing 50 days free access to the final published version of the article on [ScienceDirect](#). The Share Link can be used for sharing the article via any communication channel, including email and social media. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier's [Webshop](#). Corresponding authors who have published their article open access do not receive a Share Link as their final published version of the article is available open access on ScienceDirect and can be shared through the article DOI link.

## **AUTHOR INQUIRIES**

Visit the [Elsevier Support Center](#) to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch.

You can also [check the status of your submitted article](#) or find out [when your accepted article will be published](#).

© Copyright 2014 Elsevier | <http://www.elsevier.com>