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Instructions to authors

AIMS AND SCOPE

BIOLOGICAL RESEARCH is the official journal of the Society of Biology of Chile. It is the continuation of "Archivos de Biología y Medicina Experimentales". It is published quarterly, four issues constituting one volume per year.

This journal is intended for the publication of: i) original contributions in the different fields of the biological sciences, presented either as full-length papers or short communications; ii) review articles (on invitation) on the current status of problems of general interest to these fields; iii) papers presented at symposia.

Manuscripts will be refereed critically by at least two reviewers. Their acceptance will be based on scientific content and presentation of the material.

The name of this journal should be abbreviated as Biol. Res.

GENERAL INFORMATION

Authors can speed up both review and publication of their articles by reading carefully these instructions and following them.

The original and two copies of the manuscript should be sent to the Chief Editor at one of the addresses given below:

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Each manuscript should be accompanied by a covering letter from the author who will be responsible for correspondence regarding the manuscript.

In addition to the above, an affidavit must be provided, containing the title of the manuscript, and affirming that: i) all data contained are accurate and all statements asserted as facts are based on the authors careful investigation; ii) all authors have participated in the work in a substantive way and are prepared to take public responsibility for the work; iii) the manuscript being submitted to this journal has not been published in total or in part, and it is not being submitted for publication elsewhere. This statement must be followed by the names in print of the authors, their signatures, and the dates in which each of them signed this document. Authors from different countries or institutions may sign in different sheets containing the same basic statement.

Manuscripts from any country will be considered for publication, but they must be written entirely in English.

All parts of the manuscript should be type-written with double spacing, on 21 by 27 cm bond paper, with 2.5 cm margins on both sides. Use extra spaces only before and after headings and subheadings, but not between paragraphs of the same section. All paragraphs must be indented. All pages should be numbered consecutively, beginning with the title page.

Authors are advised to keep copies of typescripts and illustrations, since the Editorial Office cannot accept responsibility for damage or loss of papers submitted.

Care should be taken in the clarity, conciseness, and use of correct grammar. The

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Longman's Dictionary of Contemporary English (2nd ed) and the Webster's International Dictionary (3rd ed) are recommended for spelling, compounding and hyphenation. Neologisms and non-standard technical terms should be avoided.

Abbreviations and symbols. They may be used only sparingly in the Text, in which case they must be defined when first mentioned. Use only standard abbreviations and symbols along the Text, Tables and Illustrations.

PARTS OF THE MANUSCRIPT

1. TITLE PAGE. It must contain:

1a. Title of the paper. It should be concise but informative, considering that it is frequently used for subject indexing. It should not include abbreviations nor chemical formulae.

1b. Authors' names. All listed authors are expected to have participated substantially and directly in the study reported in the manuscript. For each author, give first name in full or initial, initial of middle name and last name in full.

- 1c. Institution(s) where the work was carried out (Laboratory, Department, Institute, School or Faculty, University, City, State, Country).
- 1d. Running head, of no more than 60 characters including spaces.
- 1e. Author to whom correspondence should be sent, indicating complete mailing address, and phone and FAX numbers, if available.
- 2. ABSTRACT. It should be typed on one separate page. It should state clearly and concisely the purpose of the investigation, basic procedures, main findings, and the principal conclusions. The abstract should be intelligible to one who has not read the Text. Avoid the use of highly specialized terms and abbreviations.
- 3. TEXT. This part of the manuscript should begin on a new page. The body of the paper should contain the following sections, whose headings must be centered and typed in capitals:

3a. INTRODUCTION. This section must state the purpose of the article, providing only strict pertinent references, and not reviewing the subject extensively.

3b. METHODS. The description should be brief, but describing the procedures in sufficient detail as to allow other workers to reproduce the results.

For studies involving human subjects, the authors must assure that their work was conducted in conformance with the principles embodied in the Declaration of Helsinki, and they must include a statement that the experiments were performed with the knowledge and consent of each subject, or of the parent or guardian when the subject was a child.

For studies involving experimental animals, the investigations must conform to the Guiding Principles in the Care and Use of Laboratory Animals, endorsed by the American Physiological Society.

It is convenient to mention the source of the animals used for experiments. Latin binomial names of organisms should be included underlined, except for those of common laboratory animals. Also, Latin binomial names of plants and micro-organisms should be included specifying the varieties and sources. For experiments concerning bacterial genetics, the recommendations of Demerec *et al.* (Genetic, 54: 61-76, 1966) should be followed.

Drugs denomination must be according to the criteria established in Pharmacological Reviews. Enzymes should be identified when first mentioned in accord with the Enzyme Commission of the International Union of Biochemistry.

- 3c. RESULTS. In this section findings should be described without discussion of their significance. Subsections may be used for better organization in the presentation of results; their subheadings must be typed starting from left margin, in lowercase and underlined. Data may be presented in Tables or Illustrations (sea below) only when strictly necessary. Do not repeat in the Text all the data appearing in the Tables or Illustrations.
- 3d. DISCUSSION. It should be concise, emphasizing the new and important aspects of the study, and the conclusions that follow from them. It may be advantageous to combine Results and Discussion in one section in the case of Short Communications.

- 3e. ACKNOWLEDGEMENTS. Indicate grant support. Acknowledge only those persons who have made substantive contributions to the study, and who should approve their mentioning.
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Each reference should include: last names and initials of all authors (separated by commas), year (within parentheses), complete title of each article, abbreviated name of the journal (without periods), volume number (followed by colon), and both first and last pages of each article (separated by dash). In the case of book chapters, give the names of the editor and the book, city and publisher (separated by colon).

Examples:

- EYZAGUIRRE C, KOYANO H (1965) Effects of hypoxia, hypercapnia, and pH on the chemoreceptor activity of the carotid body *in vitro*. J Physiol (Lond) 178: 385-409
- LOWRY OH, ROSEBROUGH NJ, FARR AL, RANDALL RJ (1951) Protein measurement with the Folin phenol reagent. J Biol Chem 193: 265-275
- ROGERS DW (1983) BASIC Microcomputing and Biostatistics. Clifton, NJ: Humana Press, pp 105-174
- SIEGELBAUM SA, KOESTER J (1991)
 Ionic channels. In: KANDEL ER,
 SCHWARTZ JH, JESSELL TM (eds)
 Principles of Neural Science. 3rd ed.
 Amsterdam: Elsevier. pp 66-79
- URETA T, MEDINA C, PRELLER A (1987) The evolution of hexokinases. Arch Biol Med Exp 20: 343-357

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a) by giving the authors' last names and year of publication in parentheses (Lowry et al., 1951), or as part of the sentence, e.g.: "Miller (1959) reported that..."

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All citations in the Text should appear in the list of References. The references must be verified by the author(s) against the original documents.

Include among the References the manuscripts accepted but not yet published, indicating the name of the Journal followed by "In Press" within parentheses. Information from manuscripts submitted but not yet accepted should be cited only in the Text as "unpublished observations", or "manuscript in preparation", or "personal communication", within parentheses. This type of citation must be verified by the author against the original document and must be approved by the persons concerned. The Editors may ask for their written authorization.

- 5. TABLES. They should be numbered consecutively with Roman numerals, and each one must be typed on a separate page. Each Table must bear a brief title and sufficient experimental detail to make it intelligible without reference to the Text. The headings of the columns must clearly express their contents and units of measurements. Data that may be arithmetically derived from information therein contained should not be included. Also, data that remain the same shall not be repeated on each line of the table, but should appear as footnotes under each table. Mean values and dispersion measures (standard deviation, range) should be preferred to individual observations, but always indicating the number of individuals contributing to the statistics. The significance values derived from specified probability tests must be indicated. The preferred location of each table may be indicated in the left margin of the text.
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7. ILLUSTRATIONS. They may be supplied in paper not larger than 21 by 27 cm, and presented either as original drawings, glossy drawings, glossy black-and-white photographic prints or computer generated laser prints on high-gloss paper. Diagrams and graphs should be drawn with Indian ink on stout paper. Numbers and lettering labeling must be professionally drawn (normograph or lettering set) and should be large enough to allow for at least 1.5 mm high after photographic reduction for a 7 cm column width. Length scales should be given on photomicrographs. Figures should be marked on the reverse side with the number, title of the paper and authors' names. The manuscript must be accompanied by at least one set of original illustrations for the printer; each copy of the manuscript must include photocopies of the illustrations (but originals in the case of photomicrographs). The preferred location of each figure may be indicated in the left margin of the Text.

- 8. FOOTNOTES. They should be avoided, but -if necessary- they must be typed on separated pages.
- 9. ADDENDUM. It should be typed on a separate page. It is not allowed to include results obtained after the submission of the manuscript, neither substantial changes in the

conclusions based in new evidence presented by the authors or other investigators. Nevertheless, new information could be included as an addendum, only if the Editors estimated it as necessary.

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