

## Indian Journal of Biochemistry & Biophysics

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### Instructions to Authors

#### SCOPE

The *Indian Journal of Biochemistry & Biophysics (IJBB)* is a broad-based peer-reviewed bimonthly periodical devoted to publication of original research in biochemistry and biophysics that contributes significantly to knowledge in enzymology, membrane biochemistry, glycobiology, immunochemistry, neurochemistry, drug targeting, delivery, drug design, structure-function relationships of biomolecules, protein and protein-DNA interactions, protein folding, mechanisms, conformational studies, computer simulation, novel DNA structure and their biological implications, plant and microbial biochemistry, surface forces, micelles and microemulsions, colloids, electrical phenomenon, *etc.* in biological systems, cell biology, molecular biology, endocrinology, reproductive biology, immunology, developmental biology, radiation biology, chronobiology, microbiology, pharmacology, toxicology including instrumentation and methodology. Papers of routine nature based on gross superficial studies are not acceptable.

Papers on nutrition/agricultural/medical biochemistry shall be considered only if they are of general biochemical interest. Experts with extensive research experience may contribute 'Mini reviews' in their specific subject areas.

Review articles on a current topic in the above fields are also considered. They must dwell more on research work done during the last couple of years in the field and authors should integrate their own work with that of others with acumen and authenticity, mere compilation of references by a third party is discouraged. While IJBB strongly promotes innovative novel research works for publication as full length papers, it also considers research data emanating from limited objectives, and extension of ongoing experimental works as 'Notes'.

#### IDENTIFICATION OF MATERIAL

It is necessary that the authors get their biological material identified and quote once, on its first citation in the paper, the technical name of the species concerned in full, preceded by its popular name where possible and followed by the name of the author, *e.g.* the scorpion *Heterometrus fulvipes* (C L Koch). Source of authentication should also be disclosed.

#### SUBMISSION OF MANUSCRIPTS

Manuscript submission through email ([ijbb@niscair.res.in](mailto:ijbb@niscair.res.in)), as attachment, using word processing software MS Word is encouraged. In case of hard copy, it should be submitted in triplicate in type written form to the Editor, *Indian Journal of Biochemistry & Biophysics*, CSIR-National Institute of Science Communication and Information Resources, CSIR,

Dr. K. S. Krishnan Marg, Pusa Campus, New Delhi 110012, India. Submission of a manuscript to this journal implies that it is not under consideration for publication elsewhere. However, authors should also submit a declaration that the work is original and has not been submitted for publication elsewhere.

#### PREPARATION OF MANUSCRIPTS

Authors are advised to read "Instructions to Authors" available on home pages of journal in our repository NOPR (<http://nopr.niscair.res.in>) and strictly adhere to the format and practices adopted in respect of various elements of a paper.

**General style:** Manuscript should be presented in as concise a form as possible and prepared in double space on one side of the paper. Pages should be numbered consecutively, and the matter should be arranged in the following order: title; name(s) of author(s); department(s) and institution(s); abstract; introduction (no heading for it); materials and methods; results; discussion; acknowledgement; and references. Abstract, tables, and captions for figures should be typed on separate sheets.

**Title:** The title should be such as to be useful in indexing and information retrieval. If a paper forms part of a series, a subtitle indicating the aspect of the work covered in the paper should be provided. A short running title should also be supplied.

**Abstract:** The abstract, usually not exceeding 200 words, should indicate the scope and significant content of the paper highlighting the principal findings and conclusions. It should be in such a form that abstracting periodicals could use it without modification.

**Introduction:** The introductory part should be brief and state precisely the aim of the study. Reviewing of the literature should not exceed what is necessary to indicate the reason for the research undertaken and the essential background.

**Materials and Methods:** The nomenclature, source of material and procedures should be clearly stated to enable other workers to repeat the work if necessary. New methods should be described in sufficient detail, but if the methods are clearly well recognized, a mere reference to them will do; modification(s) if any, should, however, be given.

**Results:** Only such data as are essential for understanding the discussion and main conclusions emerging from the study should be included. The data should be arranged in unified and coherent sequence so that the report develops clearly and logically. The data should be statistically analyzed, and the level of significance should be given. The same data should not be presented both in tabular and graphic forms. Only such tables and figures as are necessary should be given. Interpretation of the data should be taken up under discussion;

in some cases, however, it may be desirable to combine results and discussion in a single section.

**Discussion:** Long, rambling discussions should be scrupulously avoided. The discussion should deal with the interpretations of results without repeating information already presented under results. It should relate the new findings to the known and include logical deductions.

**Acknowledgement:** Acknowledgement should be brief and limited to financial grants/support, any specific assistance like statistical analyses, sample donation, *etc.*, and not for providing routine facilities.

**References:** IJBB broadly follows the system of 'Vancouver reference style guide'. References to literature should be numbered consecutively, following the same sequence in the text and the list appended at the end, and should be indicated in the text by numbers placed in superior position, *e.g.* Sympathomimetic drug adrenaline has been reported to cause relaxation for the gut in certain Teleost fishes.

In citing references to research papers, names and initials of authors should be followed, in order by the full title of the paper, the abbreviated title of the periodical (italicised), the volume number, the year (within circular bracket) and the first page reference, *e.g.* Lowry OH, Rosebrough NJ, Farr A L & Randall RJ, Protein measurement with folin-phenol reagent.

*J Biol Chem*, 193 (1951) 265. For names of periodicals, the standard abbreviations listed in the International serials Catalogue, published by International Council of Scientific Unions Abstracting Board (ICSUAB), Paris, France, should be used. If the reference is to an article published without any authorship in a periodical, the title of the article takes the place of the author in the citation *e.g.* The content, influence and value of scientific conference papers and proceedings, *Unesco Bull Libr*, 16 (2016) 113. In case of accepted papers, names and initials of authors, title of the paper and the name of the journal be given followed by the word "in press" within circular brackets, *e.g.* Ghosh AK & Saha S, Correlation and modulation of Ehrlich ascites tumor growth with tumour-plasma IgA, *Indian J Exp Biol*, 55 (2017) (in press).

Authors should take extreme care to avoid citing references from fake journals. They should ensure citation of references from genuine journals as indexed/approved by standard agencies, such as Clarivate analytics, Scopus, PubMed, NAAS, UGC, Govt. of India, *etc.*

Reference to a book should include, in the following order, names and initials of authors, title of the article, the title of the book (italicised), name of publishers and place of publication (within circular bracket), year and the particular page reference, *e.g.* Deo Madhav G, Bacterial infections, in *Tropical molecular medicine* (Oxford University Press, New Delhi) 1999, 90. If the reference is to the work of an author published in a book by a different author or edited by a different person, the fact that it is cited from the source book (italicized) should be clearly indicated, *e.g.* Mukherjee Biswapati & Ray Krishnangshu, Pharmacologists' approach towards understanding of non antibiotics. In: *Non antibiotics: A new class of unrecognized antimicrobics*, (Ed. by AN Chakrabarty, Joseph Molnár, SG Dastidar & Noboru

Motohashi; National Institute of Science Communication, CSIR, New Delhi, India), 2017, 28.

Proceedings of the conferences and the symposia should be normally avoided, and if required, be treated in the same manner as books. Reference to a paper presented at a conference, the proceedings on which are not published, should include, in the following order, names and initials of authors, title of the paper (italicized), name of the conference, place where the conference was held and date, *e.g.* Thathachari Y T, *Structure of collagen*, paper presented to the Symposium on solid state physics, Indian Institute of Science, Bangalore, India, 1-3 February, 2016.

Reference to a thesis should include the name of the author, title of the thesis (italicised), university or institution to which it was submitted and the year of submission, *e.g.* Vijayaraman K, *Physiological responses of the freshwater prawn, Macrobrachium malcolmsonii to the heavy metals, cadmium, copper, chromium and zinc*, Ph.D. thesis, Bharathidasan University, Thiruchirappalli, 2016.

Reference to a patent should include names of patentees, country of origin (italicized) and patent number, the organization to which the patent has been assigned (within circular brackets), date of acceptance of the patent and reference to an abstracting periodical where available, *e.g.* Trepagnier J H, *US Pat* 2, 463, 219 (to El du Pont de Nemours & Co.) 1 March 1949; *Chem Abstr*, 43 (1949) 7258.

Even if a reference contains more than two authors, the names of all the authors should be given. Abbreviations, such as *et al.*, *idem*, and *ibid* should not be used. Unpublished papers and personal communications should be avoided.

**Tables:** Tables should have proper rows and columns, and typed in single line space, Times New Roman 9 font size, unbold on separate sheet of paper without text matter on the page after references. They should be numbered consecutively in Arabic numerals and should bear brief title. Column headings should be brief. Units of measurement should be abbreviated and placed below the headings. Negative results should be indicated as 'nil' and absence of a datum by a dash. Inclusion of structural formulae inside the tables should be avoided.

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**Structural Formulae:** The number of structural formulae should be restricted to the bare minimum. Wherever the purpose is adequately served by giving chemical or common names, these should be given.

**Enzyme Nomenclature:** For enzymes, only the trivial names recommended by the IUPAC-IUB Commission should be used. In some cases, where the enzyme is the main subject of a paper its code number and systematic name should also be stated at its first citation in the paper.

**Abbreviations:** Standard International practices for abbreviations should be used in the text and illustrations without full stop mark.

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### Ethical Issues

IJBB values publication ethics and guidelines as defined by the Committee of Publication Ethics (COPE). For human/animal experimental model, authors should follow ethics prepared by Indian National Science Academy (INSA), New Delhi, India; Animal Welfare Division of the Ministry of Environment & Forest, Govt. of India, New Delhi; Council of International Organization of Medical Sciences (WHO/UNESCO), NIH and PHS. In such research communications, it is mandatory for authors to mention about the approval for the particular research work obtained from the relevant/respective institutional committee on ethics.

IJBB supports the International Committee of Medical Journal Editors (ICMJE) Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals ([http://www.icmje.org/urm\\_main.html](http://www.icmje.org/urm_main.html)).

Studies involving human subjects should follow the required procedure of securing 'informed consent'.

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