

## Indian Journal of Biochemistry & Biophysics (IJBB)

Internet (Web address: <http://www.niscair.res.in>) Information for Authors

### SCOPE

The journal welcomes concise reports of original research in all areas of biochemistry and biophysics. Papers on nutrition or medical biochemistry will be considered only if they are of general biochemical interest. Started in 1964 (as Indian Journal of Biochemistry), IJBB is a premier peer reviewed bimonthly R & D journal. It publishes original research articles in all areas of biochemistry and biophysics including:

- Growth factors, hormones, enzymes, structure, regulation, intermediary metabolism, catalytic mechanisms, coenzymes, vitamins, trace elements
- Membrane biochemistry, ion channels, signal transduction, cell-cell communication, transport, carrier proteins
- Lipids, glycobiology
- Immunochemistry, antigen-antibody binding, receptors, biomolecular recognition
- Molecular basis of genetic diseases, disease processes, host-virus interactions, viral assembly and structure
- Ageing, apoptosis, oncogenes
- Neurochemistry
- Drug targeting, delivery, drug design
- Structure-function relationships of biomolecules, protein-protein and protein-DNA interactions, protein folding, mechanisms, conformational studies, computer simulation, novel DNA structures and their biological implications
- Surface forces, micelles and microemulsions, colloids, electrical phenomena, etc. in biological systems
- Toxicology, biochemical aspects
- Plant and microbial biochemistry

With a wide circulation, IJBB is covered by many national and international abstracting/indexing services, such as: Anal Abstr, Anim Bread Abstr, Biol Abstr, Biotech Abstr, Chem Abstr, Curr Adv, Curr Cont, Excerpt Med, Dairy Sci Abstr, Food Sci & Tech Abstr, Helminthol Abstr, Indian Sci Abstr, Medline/Pub Med, Nutr Abstr, Sci Cit Ind, Rev Appl Entomol, Rev Plant Path, Vet Bull, Trop Dis Bull, etc. Abstracts of papers published in IJBB are also available free online at Bioline as well as our website, <http://www.niscair.res.in>

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

### 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)

### SUBMISSION OF MANUSCRIPTS

Manuscript should be submitted in triplicate in type written form to the Editor, *Indian Journal of Experimental Biology*, 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.

The manuscript can also be submitted through e-mail, as attachment, using word processing software MS Word, along with hard copies.

### PREPARATION OF MANUSCRIPTS

Authors are advised to see a recent issue of the journal to get familiar with 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; acknowledgment; 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.

For vertebrate animal experimental model, authors should follow ethics prepared by INSA, Animal Welfare Division of the Ministry of Environment & Forest, Council of International

Organisation of Medical Sciences (WHO/UNESCO), NIH and PHS.

**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 analysed, 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 discussion 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 for specific assistance only, not for providing routine facilities etceteras.

**References:** 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 tumor-plasma IgA, *Indian J Exp Biol*, 55 (2017) (in press). 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 (italicised) 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 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 (italicised), 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 (italicised) 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. The Abbreviation *et al*, *idem*, and *ibid* should not be used.

Unpublished papers and personal communications should be indicated in the references e.g. (Pandey A B, unpublished data/work); (Pandey A B, personal communication).

**Tables:** Tables should be typed on separate sheet of paper without text matter on the page. 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.

**Illustrations:** Three sets of illustrations are to be submitted. Illustrations must be numbered consecutively in Arabic numerals. Captions and legends to the figures should be self-explanatory and should be typed on a separate sheet of paper and attached at the end of the manuscript. Line drawings should be made in Indian ink on white drawing paper (preferably Bristol board), cellophane sheet or tracing paper.

For satisfactory reproduction the graphs and line drawings should be drawn to approximately twice the printed size. The size of letters, numbers, dots, lines, etc. should be sufficiently large to permit reduction to page size (178 mm) or the column size (85 mm) of the journal, without loss of detail. In case of photographs, prints must be on glossy paper and must show good contrast. In case of photomicrographs, magnification should either be mentioned directly on them using a bar, or

explained in the legend. If an illustration is taken from another publication, reference to the source should be given and prior permission secured. Illustrations should be protected by thick cardboard packing against damage during transit. Illustrations should be referred to in the text by numbers.

**Footnotes:** Footnotes should be avoided as far as possible. Essential footnotes may, however, be indicated by superscribed asterisk mark (\*).

**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.

#### PROOFS AND REPRINTS

Galley proofs without illustrations are sent to authors to for final corrections. Authors should ensure that the data submitted for publication are error-free. The practice of supplying reprints has since been stopped. However, the PDF file of the article can be accessed through NISCAIR's Online Periodicals Repository (<http://nopr.niscair.res.in/>) after its publication.