

DIRECTIONS FOR AUTHORS

The Ukrainian Biochemical Journal publishes works in English.

Papers in *The Ukrainian Biochemical Journal* are published free of charge, and their full texts are available online, open access (<http://ukrbiochemjournal.org>).

The Editorial Board takes to press original **experimental works; reviews** in urgent problems of biochemistry; **methodical works** with a description of new or improved methods of biochemical investigations; **papers in the history of biochemical science** which elucidate the evolution of ideas, formation and development of scientific schools or are dedicated to creative portraits of researchers; the discussion papers; new books reviews; **news items**. *The Ukrainian Biochemical Journal* also publishes the works from various sections of relative sciences, that is: cell and molecular biology, bioorganic chemistry, biophysics, pharmacology, genetics, and medicine (medical biochemistry) which were performed with the use of biochemical methods and with discussions of the data obtained in biochemistry.

Bioethical norms

The journal is oriented to directions recommended by European Convention for the protection of vertebrate animals used for experimental and other scientific purposes (Strasbourg, 1986), to directions of International Committee of Medical Journals Editors (ICMJE), as well as “Bioethical expertise of preclinical and other scientific researches conducted on animals” (Kyiv, 2006). All procedures which describe experiments with the use of laboratory animals, any works with the use of materials obtained from humans or donors, and/or patients should be conducted being guided by the norms of bioethics. When describing experiments with animals, it is necessary to indicate what recommendations (national, institutional) concerning the work with animals should be followed when performing the above procedures. If it is impossible to follow the particular norms, the author should substantiate the protocol change with its approval by the local Committee in Bioethics and define the corresponding changes in the section Materials and Methods.

Basic requirements for papers in brief:

For a manuscript to be accepted for review, it must meet the following basic requirements:

- Be an original work that has not been published;
- Be a scientific novelty;
- Conform to the scope of the journal;
- Have a structure and formatting as required below.

Manuscripts preparation and submission

The author sends to the address of the Editorial Office:

- The printed paper manuscript in duplicate (including a summary in three languages, tables, figures with legends in order of their citing in the paper, and references), with pagination (from the first to the last page), and with signatures of all the authors on the last page.
- The License Agreement on copyright transfer to the journal signed by all the authors on the last page (in duplicate). The Licence Agreement comes into force after the paper is taken for publication. No part of the publication maybe used for commercial purposes without permission of the Editorial Board.
- Information about authors (surname, first name, father's name of each author, their posts, scientific degrees and titles, telephone (with city code) place of work and post address of organization for all authors in the English, Ukrainian and Russian languages, e-mail. The corresponding author's name should be indicated with his contact (work and mobile) telephone.

The following materials should be sent to e-mail: editor@biochem.kiev.ua:

- A manuscript identical to the paper version (the file should be titled in English with the name of the first author of the paper, e.g., Petrenko.doc). Format for text files and tables – document MS Word (doc, dox or rtf).

- Colored illustrations (figures, photographs, schemes may be black-and-white or colour). Colour pictorial material is preferred. File format tif, bmp, wmf, gif, jpg, eps or pdf. For example, Fig1.jpg, Fig2.tif or Fig3.bmp.

- Tables should be given with titles and consecutive numbers. All columns in tables should have denominations and filled with corresponding data.

- No more than 6 figures are presented for surveys and experimental papers; no more than 4 – for brief notes. Each figure and table are presented as a separate file. Figure legends are not included in the figure, they are also presented separately.

- If figures published by other authors are used in the paper, the manuscript author should present the official permission from the copyright owner to use those figures.

Manuscript size, formatting and structure

The experimental work volume, including references, tables, figures with legends explaining obtained results (all on separate pages), should not exceed 20 pages A4 (40 000 printed characters), that of the reviews 30 pages (60 000 printed characters). The text type is Times New Roman type (type size 14, tables – type size 10; line spacing – 1.5).

The manuscript structure

- UDC (Universal Decimal Classification)
- The paper title
- The author's (authors') surname(s) and initials
- The Institution where the work has been done
- E-mail for correspondence
- Summary and key words
- Introduction
- Materials and methods
- Results and discussion
- Conclusions
- Acknowledgements
- Data on financial support
- References

- **The paper title** should be short (no more than 8-10 meaningful words) and correspond with the content of the article.

- **All authors** of a paper should be specified under its title, and their names should be transliterated using one of conventional international transliteration systems. Where there are more than one author and they have different affiliations, each of these affiliations should be specified separately in a footnote, using Arabic numerals as footnote indicators.

• Summary

Main investigation results are revealed in Summary in three languages should be structured and, no more than 250 words, and include the following sections:

- title;
- surnames and initials of all authors;
- text of the summary includes the work urgency, purpose, methods, results, conclusions;
- keywords (no more than 10 words).

- **Introduction** (without title). The paper begins with the brief history of the problem with reference to sources and substantiation of the research objective.

• Materials and Methods

The section Materials and Methods should present the description of the methods, reagents and experiment conditions in such a way that the experiment could be reproduced. The methods or methodology should be described, only if they are distinguished by novelty or are of interest from the viewpoint of this work. Names of companies and countries producers of the reagents and materials used in the experiments should be given. The number and species of the used animals as well as the methods of anaesthetization and euthanasia should be defined.

Digital data should be rounded off due to the accepted rules, allowing for the average experiment error. The value difference authenticity should be substantiated by statistical analysis, citing the concrete methods. The same results should not be presented in Tables and Figures. The author should indicate the program used for statistical analysis of the obtained results, presentation of results, confidence interval or distribution of values.

All the designations and denominations of physical and chemical units of measurement should be given in SI system. Amino acids are designated by three Latin letters.

In accordance with modern terminology it is expedient to use the term enzyme (instead of ferment) and protein (instead of albumen). The enzymes being used in the work, their recommended or systematic name and cipher should be given, following recommendations of International Biochemical Society (Enzyme Nomenclature – Acad. Press. San Diego. California and Supplement (1-6) in Eur. J. Biochem. (1993-1997, 1999) or electron version: <http://www.chem.qmul.ac.uk/iubmb/enzyme>.

If particular organisms (animals, plants, microorganisms) used in the research are mentioned for the first time, their full species name in Latin (italicized) should be given in the paper text, following modern taxonomy; under the second mentioning the genus name should be denominated by one letter, except for the cases when genus names of different organisms begin with the same letter. Then, abbreviations of several letters are used, e.g., *Staph. aureus*, *Str. lactis*.

Word abbreviations, except for generally known ones, should not be given in Tables and Figure legends (with rare exception and then their interpretation in notes is obligatory). It is not worth giving arbitrarily abbreviated words, especially if they are short. There is no point, for example, in abbreviating such words as peroxidase, glucosidase, etc.

• Results and Discussion

In this section one should avoid the direct repetition of the table data. The result discussion should be limited by considering the most important established facts basing on preliminary data on the problem under study. In other words, the most part of the discussion should be devoted to results interpretation.

• **Conclusions** (without title) may be accompanied by recommendations, estimations, proposals described in the paper.

• **References** are composed consecutively in order of appearance in the text (they are denominated by digits in square brackets) and are given at the paper end. References should include names of all authors of the paper, full title of the paper, abbreviated title of the journal, volume, periodical issue and pages. The titles of books (monographs, collected works, etc.) should be presented in complete form. One cannot refer to non-published materials.

References must not contain any hyperlinks and/or URL. No more than 20 titles should be cited in experimental work, about 100 titles – in the survey. Works of the recent years should prevail in references.

Authors are completely responsible for correctness of references. Correct description of the used sources in References guarantees that the cited publication will be accounted for when determining the citing index.

Examples of References

1. Maksymchuk OV, Bezdrobna LK, Sidorik LL, Kiseleva OK, Chaschyn MO. Cytochrome P450 2E1 expression in mice liver under exposure of continuous and acute γ -radiation. *Ukr Biokhim Zhurn.* 2008; 80(4): 59-65. (In Ukrainian).
2. Kibirev VK, Osadchuk TV, Kozachenko OP, Kholodovych V, Fedoryak OD, Brovarets VS. Synthesis, biological evaluation and docking of novel bisamidinohydrazones as NON-peptide inhibitors of furin. *Ukr Biochem J.* 2015; 87(1): 55-63.
3. Lugovskoy EV. The Molecular Mechanisms of Fibrin Formation and Fibrinolysis. K.: Nauk. Dumka, 2003. 219 p. (In Russian).
4. Demchenko A. P. Introduction to Fluorescence Sensing / Springer. – 2nd ed. 2015, XXXI, 794 p.
5. Liu Q, Ponnuraj K, Xu Y, Ganesh VK, Sillanpaa J, Murray BE, Narayana SVL, Hoo M. The Enterococcus faecalis MSCRAMM ACE binds its ligand by the Collagen Hug model. *J Biol Chem.* 2007; 282: 19629-19637.
6. Hindorff LA, MacArthur J, Morales J, Junkins HA, Hall PN, Klemm AK, Manolio TA. A Catalog of Published Genome-Wide Association Studies. Available at <http://www.genome.gov/gwastudies> (accessed, September, 2012).

Peer review process

The Ukrainian Biochemical Journal follows a single-blinded process of peer review. The manuscript is reviewed anonymously by two leading specialists in the corresponding field of biochemistry. Authors may suggest candidatures of independent reviewers for their work (the Editorial Board regards such wishes with understanding, though reserves the right to assign reviewers capable for the most qualified analysis of the work). Our reviewers are aware that submitted manuscripts are the authors' private property and are not the subject to unauthorized disclosure.

A reviewer's decision is not final. Authors have a right to appeal against a reviewer's decision. In this case the paper will be sent to the independent referee or to adjudicating member of the Editorial Board for assessment. A final decision on the appeal remains with the Editorial Board.

The Editor makes the decision on the paper, and informs the authors on the decision. Once reviewer reports have been received, authors are given 3 weeks to revise the paper. The revised paper along with a point-by-point response to the reviewer reports and with the explanations on any changes made in the paper should be returned to the Editorial Office within 3 weeks. The revised paper, approved and signed by reviewers and Scientific Editor, is considered as the final version. Any changes in the text, figures or tables are not permitted thereafter.

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