

AUTHOR RULES

General information

Results of scientific research and survey on different directions of current biotechnology, brief reports, articles on biotechnology history, and new publications on biotechnology and adjoining branches of science are published in «*Biotechnologia Acta*» journal in English, Ukrainian and Russian.

Bioethical norms

«*Biotechnologia Acta*» is focuses on the rules recommended by the European Convention for the Protection of Vertebrate Animals used for Experimental and Other Scientific Purposes (Strasbourg, 1986) and International Committee of Medical Journal Editors (ICMJE).

All procedures describing experiments involving laboratory animals, any biomaterials of human origin including donors and/or patients should be carried out guided by the bioethics norms. Experimental record should be reviewed and approved by the National Commissions on Bioethics and meet the International Standards.

Basic requirements to the articles are novelty, relevance and validity of the given facts, reproducibility of the experimental data on the reported methods and drawing up of the manuscript according to the journal requirements.

Article submission

The following documents are provided via *E-mail* biotech@biochem.kiev.ua:

- full text of the article (including a summary in three languages, tables, figures and their captions placed as mentioned in the text and a list of references as well). This file should be named after the first author (family_name.doc);
- color illustrations;
- full names, first names and patronymics of all authors and full postal addresses of their institution should be given, including post codes, in Ukrainian, Russian, and English languages. The corresponding author/s should be indicated, including their e-mail and telephone;
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General requirements to manuscripts

The editors reserve the right to return the manuscripts that are not in accordance with the following instruction.

The date of the paper receipt is the date of arrival of its last, correct version to the editorial office.

The materials should be submitted in the Microsoft Word-supported format, page size of A4, book-oriented, font Times New Roman, at 14 point size, of one and a half spacing.

The manuscript (including tables, list of references, figures, and figure captions) should not exceed 30 pages (60 thousand symbols) for review articles, 20 pages (40 thousand symbols) for experimental one, 8 pages for short reports, 5–6 pages for current events and reviews. Figure volume is 1/4 of the article. Pages should be numbered consecutively, including tables, references, figure captions, summaries, etc. All tables, figures and their captions should have a concise title and serial number. The notes on the table are placed straight under the table. Footnotes can be used to explain abbreviations.

Figures should be in one of the electronic formats *.jpg or *.tif in in color.

The articles are reviewed by two independent experts who are appointed by the Editorial Board.

Section article

Experimental articles should have the following scheme:

- **Title page;**
- **Abstracts;**
- **Text of the article;**
- Acknowledgements (where applicable);
- Data concerning financial support (where applicable);
- **References.**

Title page:

- UDC (Universal Decimal Classification);
- article title;
- full names of all the authors;
- name and postal address of the institution which each author works in;
- *e-mail* of the corresponding author.

Article title should be brief (not more than 8-10 significant words), informative, contain keywords and cover adequately the content of the article.

Names of all authors should be given in full. Each author should list an associated department, university, or organizational affiliation and its location, including city, state/province (if applicable), and country.

Name of the institution: If there are some authors and they work in different institutions, it needs to show in Arabic (indices) the names of the authors of the appropriate institutions.

Abstracts:

Abstracts up to 1,500 characters with spaces should contain:

- article title;
- names of all authors;
- text of the abstract for experimental articles should be carefully structured and contain the following sections: aim, methods, results, conclusion;
- keywords (not more than ten).

In addition, an abstract should:

- explain how the study was done which includes any model and organisms were used, without getting into methodological specifics;
- summarize the most important results and their significance.

Abstracts should not include:

- citations;
- abbreviations (except standard).

Text of the article

Experimental articles should have the following sections (headlines):

- introduction (not entitled);
- materials and methods;
- results and discussion;
- conclusion (not entitled).

The relevance and purpose of the study is formulated in the introduction.

Methods or methodology of the work should be described in a case if they are distinct in novelty.

On the common techniques it is enough to give references to publications. All the designations and denominations of physical units should be given in SI International System. Amino acids are indicated by abbreviated symbols of three letters or in single letter format FASTA.

Names of the enzymes and their codes should be given according to the recommendations of the 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>.

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.

All quantitative data require statistical analysis. Its results should be given in the tables and figures. Data validity is shown as follows: * — $P < 0.05$.

Latin name of the genus and species of the organisms should be given in *italics*. Mentioning firstly, it is given full specific name (preferably with indication of taxon author), and subsequently the name of the genus could be given shortly with one letter, unless it concerns species belonging to different genera with the same first letter. Latin names of taxons are given according to current sources. It needs to use only standard abbreviations of names for measures, physical, chemical and mathematical variables and terms, all other abbreviations have to be interpreted.

If materials, methods, and protocols are well established, authors may cite articles where those protocols are described in detail, but the submission should include sufficient information to be understood independent of these references.

References

Only published or accepted manuscripts should be included in the reference list. Manuscripts that have been submitted but not yet accepted should not be cited. References must be listed at the end of the manuscript and numbered in the order that they appear in the text. In the text, citations should be indicated by the reference number in square brackets.

The authors are responsible for the correctness of the original sources.

Citation of published and readily accessible materials to readers is only available: articles, books, conference proceedings, dissertations, patents.

It is desirable that the manuscript has no more than 20 references in experimental work, 100 references in review, and refer to recent years.

Editorial staff has no responsibility for correctness and completeness of the given bibliographic data.

Recommendations of the «Biotechnologia Acta» journal for the references compilation:

Published papers:**Examples:**

Pirog T. P., Shevchuk T. A., Shulyakova M. A., Tarasenko D. O. Influence of citric acid on synthesis of biosurfactants of *Rhodococcus erythropolis* IMV Ac-5017. *Mikrobiol. Zh.* 2011, 73(5), 21–27. (In Ukrainian).

Liang G., Klose R. J., Gardner K. E., Zhang Y. Yeast Jhd2p is a histone H3 Lys4 trimethyl demethylase. *Nature Struct. Mol. Biol.* 2007, 14(2), 243–245.

Rodrigues L. R. Inhibition of bacterial adhesion on medical devices. *Adv. Exp. Med. Biol.* 2011, V. 715, P. 351–367.

Skochko A. B., Konon A. D., Pirog T. P. Research of antiadhesion properties of surface-active substances of *Acinetobacter calcoaceticus* IMV B-7241. *Kharchova promislovist.* 2012, N13, P. 77–80. (In Ukrainian).

Examples of paper descriptions with DOI:

Yang S. Y., Ryu I., Kim H. Y., Kim J. K., Jang S. K., Russell T. P. Nanoporous membranes with ultrahigh selectivity and flux for the filtration of viruses. *Advanced Materials.* 2006, 18(6), 709–712. doi: 10.1002/adma.200501500.

Conferences:

Riabinina A. A., Berezina E. V., Usol'tseva N. V. Surface Tension and Lyotropic Mesomorphism in Systems Consisting of Nonionogenic Surfactant and Water. *Lyotropic Liquid Crystals and Nanomaterials: Proceedings of the Seventh International Conference.* Ivanovo: Ivanovskiy Gosudarstvenniy Universitet, 2009. (In Russian).

Theses:

Kordyum V., Suhorada E., Ruban T. Informational conditioning as the mechanism of permanent organism reconstruction. Abstracts of the *1st World Congress of Regenerative Medicine, Leipzig, Germany*, 22–24 October 2003.

Electronic journal articles:

Hindorff L. A. (all authors) A Catalog of Published Genome-Wide Association Studies. Available at <http://www.genome.gov/gwastudies> (accessed, September, 2012).

Description of the electronic encyclopedia articles:

Containerization. In *Encyclopedia Britannica*. Retrieved May 6, 2008, from <http://search.eb.com>

Links to Web resources:

Pravila Tsitirovaniya Istochnikov (Rules for the Citing of Sources) Available at: <http://www.scribd.com/doc/1034528> (accessed 7 February 2011).

Links to online resource of scientific and technical reports:

Deming D., Dynarski S. The lengthening of childhood. (NBER Working Paper 14124). *Cambridge, MA: National Bureau of Economic Research*. Retrieved July 21, 2008, from <http://www.nber.org/papers/w14124>

Book:

McCartney E. J. *Optics of the atmosphere*. N. Y.: Willey, 1977, 400 p.

Book chapter:

Trachtenberg I. M., Levitsky E. L. Genetic toxicology. *Genetic medicine*. Zaporozhan S.B. (Ed.). Odessa State University. 2008, P. 183–221. (In Russian).

Monograph:

Lugovskoy E. V. The Molecular Mechanisms of Fibrin Formation and Fibrinolysis. *Kyiv: Naukova Dumka*. 2003. 219 p. (In Russian).

Dissertation abstracts:

N. Kawasaki. Parametric study of thermal and chemical nonequilibrium nozzle flow. M.S. thesis, Dept. Electron. Eng., *Osaka Univ.*, Osaka, Japan, 2003.

J. O. Williams. Narrow-band analyzer. *Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA*. 2010.

Dissertation:

Young R. F. Crossing boundaries in urban ecology: Pathways to sustainable cities (*Doctoral dissertation*). Available from ProQuest Dissertations & Theses database. 2007. (UMI No. 327681).

Encyclopaedia, dictionary:

Sadie S., Tyrrell J. (Eds.). The new Grove dictionary of music and musicians (2nd ed., Vols. 1–29). *New York, NY: Grove*.

Patent:

Wilkinson J. P. Nonlinear resonant circuit devices. *U.S. Patent 3 624 125*, July 16, 1990.

NOTE: Use «issued date» if several dates are given.

Short messages

Smaller articles by volume that have an implicit novelty and relevance for biotechnology are published in «*Biotechnologia Acta*» journal. These articles are passed expedite reviewing and published in a short time. The total volume of a short message is limited to 10 typewritten pages, number of drawings and/or tables should not exceed 3, and a list of used literature sources should not contain more than 15.

Sections of the short messages are similar to that of the original article but are not shown with headings and subheadings, the results could be given together with the discussion.

Author for correspondence should justify the expediency of such an extraordinary publication in a letter to the editor. In case of acceptance, such work could be published within 3–4 months.

Notes

Authors can correct only found mistakes in the made up pages without making additional changes and supplements.

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