

## INSTRUCTION FOR AUTHORS

Journal Problems of Cryobiology and Cryomedicine publishes original papers, reviews and short reports covering the issues of low temperature biology and medicine, as well as those of related fields of science.

The manuscript should be submitted in Ukrainian or English in electronic form via e-mail to [journal@cryo.org.ua](mailto:journal@cryo.org.ua) or using the website [www.cryo.org.ua/journal](http://www.cryo.org.ua/journal). Manuscripts should conform to the following requirements.

The text should be printed in A4 pages. MS Word is preferable, use Times New Roman 14 pt and 1.5 spacing. Manuscript should be not more than 15 pages for original research paper, 20 pages for review and 5 pages for short communications. (Please consult Editorial Office if you need more space).

Start your manuscript with informative and concise title, then indicate full names of the authors, their ORCID and parent institutions where the authors performed the research. Your paper should contain the summary (about 1000 symbols) describing the aim, main methods and conclusions of the research. Follow the summary by up to 10 keywords.

The original research paper could be based on the experimental or theoretical data, as well as on the development of methodical approach. Recommended division of the paper is as follows: introduction, materials and methods, results and discussion (together or separately), conclusion. It is recommended to introduce the original research with general description of the problem as well as its relationship to important fundamental and/or applied issue, to make short analysis of recent research and publications, which initially reported the issue, to state unsolved aspects of the issue which is the object of the presented study, as well as the proceeding from these objectives (aim) of the investigation. The Materials and Methods section should be sufficiently detailed to allow the work to be reproduced. Results and discussion could be present separately or together in one section depending on logical design of the paper. In any case the results should be described clearly and without repeating of the same data in figures and in tables. Describe in the text only the found regularities without stating all the numeral data shown in the figures or tables. Statistical analyses should be stated if applicable. The use of SI units is obligatory. The discussion should be accompanied by interpretation and substantiation of the findings. Finally, the paper should contain the conclusion on the performed research and the prospects of further investigations.

Short communication is a reduced version of original paper and serves for providing the cutting-edge information about obtained results without an expanded discussion. Short communication does not contain the subheadings, not more than 3 figures and/or tables, and maximally 10 references. The review papers to be prepared after preliminary arrangement with the Editorial Board. It is supposed that the review paper would substantially cover the state of art in an appropriate relevant scientific issue in the frames of the journal topic.

The text of the manuscript should contain the definition of abbreviations at their first usage, references should be numbered and given in square brackets right after citation. Mathematical and chemical symbols, equations and formulas are to be placed in the manuscript using the text processing software. The tables are to be placed in separate pages after the main text and references. Give the notes to the table directly under it. Place the numbered figures and illustrations on separate pages after the text and enclose their electronic copies as separate files. Provide the figures with the concise title and explanations essential to understand the illustrated content. The illustrations should be of professional quality and to be done in black and white (grayscale); photos, diagrams to be presented as an image in .eps, .jpg or .tif formats, the images should be minimum 8 cm in width and at least 300 dpi resolution. Charts and graphs prepared with MS Excel application to be submitted as the original file (.xls) with the source data, in case of other applications, these should be presented as an image. Formulas, tables and figures are to be numbered consecutively in Arabic numerals, respectively: (1); Table 1, Fig. 1; parts of composite figures to be denoted by capital letters (A, B, C, etc.). The illustrations should be prepared considering bilingual journal format, thus it is recommended not to oversize the labels and captions within the figures, rather to place all the large annotations in the figure description. Do not use pseudo-3D plots where not appropriate. Use white backgrounds for plots and no gradient filling for the columns, line thickness should be at least one point. Arial is preferable to use for all the numbering and letters on the plots.

Generally we use Vancouver style (NLM) for citations with some specific details. Place the references after the main text in alphabetical order as a numbered list. Put the reference number in square brackets immediately after the citation. The unpublished data should be only acknowledged in the text, do not put them into the list. The reference description should contain the following information: name(s) of the author(s), article title, journal or book title; for periodicals state the year of publication, volume number, number of issue, page number limits; for monographs state the place of publication, publisher, year of publication; for materials of conferences as for the part of a book, but with the date and place of the conference. For non-English sources, a translation of the title is given in square brackets, and the original language of the text is indicated at the end.

### Scheme of references

#### Journal article:

Sciorio R, Pluchino N, Fuller BJ. Review of human oocyte cryopreservation in ART programs: Current challenges and opportunities. *Cryobiology*, 2023; 113: 104590.

Yershova NA, Chabanenko OO, Shpakova NM, et al. [Effect of trifluoroperazine and sodium decylsulfate on posthypertensive shock of human and rabbit erythrocytes]. *Fiziol Zh.* 2022; 68(1): 62—8. Ukrainian.

**Book:**

Jain NC. Essentials of Veterinary Hematology. Philadelphia, PA: Lea and Febingers; 1993. 417 p

Belous AM, Grischenko VI. [Cryobiology]. Kyiv: Naukova dumka; 1994. 430 p. Russian.

Atramentova LO, Utevska OM. [Statistical methods in biology]. Kharkiv: V.N. Karazin Kharkiv National University; 2007. 288 p. Ukrainian.

**Part of a book:**

Zhang TT. Cryopreservation of gametes and embryos of aquatic species. In: Fuller BJ, Lane N, Benson EE, editors. Life in the Frozen State. Boca Raton: CRC Press LLC; 2004. p. 415–36.

Shylo OV, Lutsenko DG, Lomako VV. Long- and short-term cold adaptations affect erythrocyte population in rats of different ages. In: Extreme Environmental Physiology: Life at the Limits. Abstract book. (2019 Sep. 02–04, Portsmouth, UK). Portsmouth; 2019. p. 26–27.

Petrushko MP, Yurchuk TO, Pavlovych OV, Piniayev VI. [Cryobiological approaches to preserving human reproductive health]. In: Petrenko OYu, editor. Cold in Biology and Medicine: state of the art and perspectives. Kyiv: Naukova Dumka; 2023. p. 68–74. Ukrainian.

**Electronic document:**

European Convention for the Protection of Vertebrate Animals used for Experimental and Other Scientific Purposes. European Treaty Series No. 123 Strasbourg, 18.III. 1986. Strasbourg: Council of Europe; 1986. 53p. [Cited 01.02.2016] Available from: <https://rm.coe.int/CoERM>

PublicCommonSearchServices/DisplayDCTMContent?documentId=090000168007a67b

Hawkins VE, Takakura AC, Trinh A, et al. Purinergic regulation of vascular tone in the retrotrapezoid nucleus is specialized to support the drive to breathe. *eLife* [Internet]. 2017 Apr 7 [cited 2017 Nov 19]; 6:e25232. Available from: <https://elifesciences.org/articles/25232>

**Patent:**

Ohlrogge JB, Benning C, Gao H, Girke TA, White JA, inventors; Board of Trustees Operating Michigan State University, assignee. Plant seed specific promoters. United States patent US 7,081,565. 2006 Jul 25.

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