

## SCOPE

The journal *Molecular Biology* covers a wide range of problems related to molecular, cell, and computational biology, including genomics, proteomics, bioinformatics, molecular virology and immunology, molecular development biology, and molecular evolution. *Molecular Biology* publishes reviews, mini-reviews, and experimental and theoretical works. Annually, the journal publishes special issues devoted to the most rapidly developing branches of physicochemical biology. The journal features both Russian and international authors.

## FOUNDERS

- Russian Academy of Sciences, Moscow, Russia;
- Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia

## ABSTRACTING AND INDEXING

*Molecular Biology* is indexed/abstracted in AGRICOLA, Academic OneFile, BIOSIS, Biological Abstracts, CAB Abstracts, CAB International, Chemical Abstracts Service (CAS), Current Abstracts, EBSCO Academic Search, EBSCO Biological and Agricultural Index, EBSCO Biomedical Reference Collection, EBSCO OmniFile Full Text (H.W. Wilson), EBSCO STM Source, EBSCO Science Full Text Select (H.W. Wilson), EBSCO TOC Premier, EMBiology, Expanded Academic, Global Health, Google Scholar, Health Reference Center Academic, Highbeam, Journal Citation Reports/Science Edition, OCLC, SCImago, SCOPUS, Science Citation Index Expanded (SciSearch), Science Select, Summon by ProQuest, and Zoological Record.

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## **MOLECULAR BIOLOGY**

### **INSTRUCTIONS FOR AUTHORS**

Any deviation from these guidelines may result in rejection and/or increased scrutiny of authors in future submissions. The publisher and/or editors cannot be held legally responsible for any claims to compensation.

Submission of a manuscript to *Molecular Biology* entails the following:

- the manuscript has not been previously published;
- it is not under consideration for publication elsewhere;
- it has not been previously rejected by *Molecular Biology*;
- its publication has been approved by all coauthors;
- its publication has been approved by the responsible authorities—tacitly or explicitly—at the institute where the work was carried out.

### **JOURNAL-SPECIFIC GUIDELINES**

#### GENERAL

*Molecular Biology* publishes experimental and theoretical studies and reviews concerning the structure, function, synthesis, and degradation of biological macromolecules in cell and model systems; their interactions with each other and with low-molecular-weight ligands; and molecular organization of the cell and molecular mechanisms regulating vital processes.

Conceptual papers, mini-reviews are also published. Special issues of the journal are devoted to certain topical problems in molecular biology.

Publications are grouped under the following sections:

- REVIEWS
- GENOMICS. TRANSCRIPTOMICS
- CELL MOLECULAR BIOLOGY
- STRUCTURAL–FUNCTIONAL ANALYSIS OF BIOPOLYMERS AND THEIR COMPLEXES
- BIOINFORMATICS
- PROTEOMICS

The authors may indicate the preferable section when submitting their manuscript for publication. If not indicated, the section is identified by the editorial board.

Submission of a manuscript for publication in *Molecular Biology* implies that the authors have not submitted analogous material to other journals, that this material has not been published previously, and will not be submitted or accepted for publication in any other journal.

If the editorial board becomes aware that analogous material has been submitted to another journal (possibly under a different title or with the authors listed in a different order), the manuscript will be immediately returned to the authors and the editorial office of the other journal will be notified and advised to reject the manuscript due to infringement of the copyright transfer agreement (see below).

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A separate file (or electronic version of the manuscript) should contain necessary information about the authors (full name, address, ZIP code, phone and fax numbers, and e-mail address), with the corresponding author indicated separately.

**No payment is collected from the authors for publication.** The exception is complex color figures published at the expense of the authors in the paper version of the journal. In the electronic version, the publication of color figures is free.

The journal does not have an accelerated option with payment for reducing the processing time, revision, or acceptance of a manuscript for publication; however, the authors can to publish

their article in Open Access. For details, see the publisher's website <https://www.pleiades.online/en/authors/>.

All technological processes for preparing a manuscript for printing begin 4 months before the publication of the journal.

## FORMAT

The manuscript (electronic version) should be formatted as follows.

The text is printed with 1.5 line spacing and should take approximately 29–34 lines per page: font Times New Roman, point size 12, the left margin should be 30 mm, and the top and bottom margins 20 mm.

**UDC** (Universal Decimal Classification code) (*italic*, point size 9).

**Title of paper** (**boldface**). The title should not be too long, too short, or insufficiently informative; it should reflect the main findings rather than the field and subject of study. The words study, comparison, analysis, etc., should be avoided.

**The list of authors** (by initials and surname, **boldface**). The corresponding author should be indicated with an asterisk and his/her e-mail address should be provided.

**The list of affiliations and addresses** (*italic*, **boldface**), e.g., *Institute of Cytology, Russian Academy of Sciences, St. Petersburg, 194064 Russia*. If there is more than one affiliation and address, use superscript lowercase letters to indicate the institute with which each author is affiliated.

**The Abstract** (**boldface**, point size 12) is an important part of a manuscript, which represents the study in various databases. No abstract is necessary for a short communication. The abstract should clearly describe the problem; object(s); method(s) and strategy; results, with emphasis of their novelty compared with known data; and conclusions (a new hypothesis, rejection of a known hypothesis, possible applications, or emerging problems). The abstract should be neither too short nor too long (20 lines on average). The size depends on the novelty of the findings rather than on the manuscript size. Abbreviations should not be used, even if they appear in the text body.

**Keywords** (**boldface**) must reflect the research field (molecules, primary structure, 3D structure in solution, etc.), method(s), object(s) (prokaryotes, eukaryotes, species/genus, cells, etc.), and specifics of the study.

**The text body** typically has the following sections (in theoretical papers and reviews, sections are named at the author's discretion):

## **INTRODUCTION**

## **EXPERIMENTAL**

This section should provide information on objects, methods, procedures, and conditions of experiments sufficient for their reproduction (methods described in previous publications should not be described again). The quality and manufacturers of the most important reagents must be indicated.

## **RESULTS**

Depending on its size, the section should be divided into two to four subsections. The subsection headings should be informative rather than descriptive. Figures and tables should have headings. Each illustration should be referred to in the text at least once. The positions of figures and tables in the text should be indicated in the left margin. The same material should not be duplicated in both tables and figures. A figure is always preferable to a table, although tables are indispensable in some cases. Schemes should be used to clarify a procedure or a result and its interpretation.

## **DISCUSSION**

The results of the study are explained and discussed in the context of previously published data. The positions of figures and tables in the text are indicated in the left margin.

## **ACKNOWLEDGMENTS**

The names of supporting foundations (with grant numbers in parentheses) are indicated in this section.

This section provides information on any assistance in carrying out work and preparing an article; it also reports collective use centers.

## **FUNDING**

The section indicates the names of all funds and organizations that financed the work, with grant numbers in parentheses. Abbreviations of donor names should be avoided.

## **COMPLIANCE WITH ETHICAL STANDARDS**

If studies were conducted on animals, then this section indicates that all applicable international, national, and/or institutional principles for the care and use of animals have been observed.

If no such experiments were carried out, it is necessary to indicate that the article contains no research in which animals were used.

If the experiments involved biological materials obtained from people, patient cohorts, etc., then two points need to be inserted in this section:

- All procedures involving people comply with the ethical standards of the institutional and/or national committee for research ethics and the 1964 Helsinki Declaration and its subsequent changes or comparable ethical standards.
- Informed voluntary consent was obtained from each of the participants.

### **CONFLICT OF INTEREST**

Information on conflicts of interest is provided here.

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If there is additional material, this section provides links to sites hosting them: <http://link.springer.com>, <https://elibrary.ru>, <http://molecbio.ru>. Please do not post additional materials on third-party resources. The copyright transfer agreement for supplementary materials should be correctly completed, signed by all authors, and submitted in PDF together with the manuscript; see detail at <https://www.pleiades.online/en/authors/guidlines/prepare-electronic-version/supplementary-materials/>.

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This section, for example, may contain nonstandard links (materials that for some reason have not been published but may be provided by the authors upon request); additional links to author profiles (Orchid ID); information on previously unpublished reports related to the article delivered at conferences, seminars; etc.

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**This section should be on a separate page and contain the numbered list of references in the same order as they appear in the text (references in the text are cited as numbers in square brackets). The citation of different papers under the same number or of the same paper under different numbers and references to unpublished studies is not allowed.**

The format of references in the list should be as follows (please pay attention to punctuation and spacing):

## **REFERENCES**

### **Journals:**

1. Studitsky V.M. 2000. Chromatin transcription. *Mol. Biol. (Mosk.)*. **35**, 235–247.
2. Hanahan D. Weinberg R.A. 2000. The hallmarks of cancer. *Cell*. **100**, 57–70.

### **Collected works:**

Orlean P. 1997. Biogenesis of yeast cell wall and surface components. In: *The Molecular and Cellular Biology of the Yeast Saccharomyces. Cell Cycle and Cell Biology*. Vol. 3. Eds Pringle J.R., Broach J.R., Jones E.W. Cold Spring Harbor: Cold Spring Harbor Lab. Press, pp. 229–362.

### **Meeting papers:**

Zhirnov O.P., Konakova T.E., Krichevets S.G., Iordansky S.N., Klenk H.D. 2000. *Abstr. 11th Int. Conf. Negative Strand Viruses*, Quebec, Canada, p. 91.

### **Books:**

Sambrook J., Fritsch E.E., Maniatis T. 1989. *Molecular Cloning: A Laboratory Manual*. 2nd ed. Cold Spring Harbor: Cold Spring Harbor Lab. Press.

## **FORMAT SPECIFICATIONS**

In all materials, including the text, tables, figures, and figure captions:

only “x” should be used as the multiplication sign:  $5 \times 10^3$  mol/L;

the symbol “·” is used in scalar products, chemical formulas ( $\text{CuSO}_4 \cdot 7\text{H}_2\text{O}$ ), and noncovalent complexes (DNA, RNA, etc.);

numerical material should be presented as tables; notation such as like ~ (tilde), ° (degree), and v (caret) should be used only when absolutely necessary.

Latin names of species and genera are written in italics, whereas the names of higher taxa and names of phages and viruses are in roman type. The names of genes are written in lowercase italics (*rec A*), whereas the names of proteins are in roman type (RecA) (except for designations used in yeast genetics).

The symbols of nucleotides (A, C, G, U), amino acid residues (Ala, Arg, Asn, etc.), and phosphates (ATP, ADP) are written in roman type.

The numbers of nucleotides and amino acid residues are written without hyphens (U25, Ala32). As a rule, long protein and nucleic acid sequences are not written in full, only their accession numbers (e.g., in the EMBL Data Bank) are given. When short sequences (no longer than 400 amino acid residues or base pairs) are analyzed and actively discussed in the text, they can be written in full.

Molecular weight is expressed in daltons (Da, kDa, MDa).

The use of biochemical and chemical terms, as well as the names of enzymes, should comply with the international rules of the *IUPAC-IUB Committee on Biochemical Nomenclature*. For reference, see <http://www.chem.qmw.ac.uk/iubmb> and *Enzyme Nomenclature*, San Diego: Academic Press, 1992. Additional information is published in *Eur. J. Biochem.*, 1994, vol. 223, pp. 1–5; 1995, vol. 232, pp. 1–6; 1996, vol. 237, pp. 1–5; 1997, vol. 250, pp. 1–6; 1999, vol. 264, pp. 610–650.

Since a text abounding in abbreviations is difficult to understand, the use of unconventional abbreviations should be reduced to a minimum. Upon introduction of an abbreviation, the corresponding term should first be spelled out, e.g., electrophoretic mobility shift assay (EMSA).

An electronic version of the manuscript should be submitted in a standard word processing program (preferably Microsoft Word for Windows 7.0 or later). The text should be without automatic hyphenation or justification, with italic and boldface used as noted above.

**The text of the paper, abstract, list of references, tables, and figures should be contained in one file.** Figures and diagrams (black and white), each in an individual file (resolution 600 dpi or higher), can be in TIFF, JPEG, or EPS format; their sizes should be sufficient for direct reproduction in the journal. **Color figures are published at the expense of authors.** The texts of long nucleotide or amino acid sequences should also be presented as individual text files.

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invited. Review must be completed within ten weeks. Manuscripts disapproved by two independent referees are not accepted for publication. Manuscripts falling beyond the scope of the journal are rejected without review.

**After review, the manuscript is given to the editorial board member responsible for the corresponding section, who makes an ultimate decision as to the possibility of its publication.**

A manuscript that is potentially acceptable but requires improvement is sent to the authors, along with comments made by the referees and the scientific editor. **The authors should consider these and indicate the positions in the manuscript where the corresponding corrections have been made or, in case of disagreement with the referees, the authors should substantiate their opinion.** The corrected manuscript (both print and electronic versions) should be returned to the editorial board within 30 days after receipt by the authors (excluding mailing time). In this case, the date of receipt by the editorial board remains unchanged. After 30 days, a new received date will be indicated.

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