

RULES FOR THE AUTHORS OF THE VIR PUBLICATION

Proceedings on Applied Botany, Genetics and Breeding

I. General Information

The journal *Proceedings on Applied Botany, Genetics and Breeding* publishes scientific surveys, analytical papers and discussable articles on all aspects of the work with plant genetic resources; results of original experimental research in genetics, plant breeding, physiology, biochemistry, immunology, etc.; and brief reports. Reviews and materials of science chronicles are also accepted.

The journal is published four times a year. The languages of publication are Russian and English.

For a manuscript to be considered by the Editorial Board, the authors are required to submit the following documents to the editors:

- Complete text of the manuscript and illustrations in electronic format (e-mail: trudyVIR@vir.nw.ru) sent as an attached file;
- Letter of warranty signed by the author(s) (*Appendix I*);
- Information about the author(s): family name, first name and patronymic, place and address of employment, position, contact telephone number, and e-mail address. A contact person should also be identified for the editors to communicate and correspond with.

Only peer-reviewed articles shall be accepted for publication in the journal *Proceedings on Applied Botany, Genetics and Breeding*. Decision on publication is taken by the Editorial Board of the journal on the basis of peer reviews. A manuscript that received negative reviews from two independent reviewers will be rejected by the Editorial Board's decision. If an article needs amending it is returned to the author(s) together with the remarks of the reviewer and the editor in charge of the issue. **The authors should take into account all the remarks made during peer reviewing and editing of the article, and provide arguments for any debatable issues, if any.** Amendments made by the author(s) in the manuscript should be incorporated into the electronic version of the text received from the editors and returned to the editors within the prescribed period of time. The amended article is once again considered by the Editorial Board who will decide on the possibility of its publication.

The journal provides reviewing for all materials submitted to the editors and conforming to its subject areas with the purpose of their expert examination. All reviewers are recognized specialists in the subject areas of the reviewed materials and have published works in the subject area of the reviewed article within the past 3 years. The reviews are kept by the journal's publishers and editors for the next 5 years.

The editors request the authors to abide by the guidelines below while preparing and sending manuscripts to the journal. Those manuscripts whose format does not conform to these guidelines will not be considered by the Editorial Board. All received materials will not be returned. The author(s) will be informed by e-mail on the decision taken.

II. Subject areas of publications

1. Mobilization and conservation of the genetic diversity of cultivated plants and their wild relatives
2. Studying and utilization of plant genetic resources

3. Collections of the world's crop genetic resources for the development of priority plant breeding trends
4. Genetics of cultivated plants and their wild relatives
5. Progress in domestic plant breeding at the present stage
6. Identification of the diversity of cultivated plants and their wild relatives for solving fundamental and applied problems
7. Systematics, phylogeny and geography of cultivated plants and their wild relatives
8. Immunity of cultivated plants and their wild relatives
9. Brief reports
10. Surveys
11. History of agrobiological research and VIR. Names of renown.
12. Reviews and criticism.

III. Publication volume and structure

The volume of surveying, problem-oriented and analytical articles should not exceed **20** pages of computerized text according to the parameters below, while descriptions of experiments should cover no more than **15** pages of computerized text. This volume includes a summary (in Russian and English), abstract (in Russian and English), key words (in Russian and English), main text, list of references, tables and/or illustrations and their captions (in Russian and English). Articles exceeding these volumes may be accepted by the Editorial Board's decision.

The text of the electronic version of an article offered for publication should be typeset in *Word for Windows* text editor and saved preferably in *.rtf format.

The file name should comply with the family name and initials of the article's main author in Latin characters (e.g. Petrov_SN.rtf). The font of the text shall be Times New Roman, font size **14pt**, without hyphenation, with fully justified alignment. Single interline spacing should be used. All margins are 2 cm. No page numbers should be inserted. Paper size is A4.

IV. Requirements for contents

An article should be clearly formulated and accurately structured. With this in view, the following text structure is to be observed:

- **summary** in the Russian and English languages (~30–100 words)
- **abstract** in the Russian and English languages, no less than 0.5 pages in volume (250–350 words); the abstract in English need not be the exact translation from Russian and may considerably exceed the Russian version;
- **key words** (no less than four) in the Russian and English languages; they should not repeat the words used in the article's title;
- **text of the article**; and
- **references/literary sources** in the English and Russian languages.

When describing original experimental data it is advisable to use the following subtitles:

Introduction
Materials and methods
Results and discussion
Conclusion or Findings

Theoretical, surveying and problem-oriented articles may have optional structure but

must contain a summary, an abstract, key words and a list of references.
For articles in Russian, an extensive English abstract is recommended.

1. Requirements for the title

The title of an article should be as concise as possible and clearly reflect the contents.

The UDC index must be typed above the article's title in the upper left corner of the page (font size: **14pt**). For the title **uppercase characters** are used (font: **boldface**; font size: **14pt**, including Latin names; alignment: centered).

Information about the author(s). Initials and family name(s) of the author(s) should be typed in **lowercase characters** (font: **boldface**; font size: **14pt**; alignment: centered). Non-breaking space should be made between the initials and family name(s) of the author(s) by pressing the combination

Ctrl+Shift+Space

to preclude their separation into two lines. Data of the author(s) include the name(s) of the scientific institution, its full legal address including zip code, city and country, and e-mail of the authors(s) (lowercase characters; font: regular; font size: **14pt**). All information in the address should be presented in Russian and English, including the city and the country. Street names are not translated into English, but should be transliterated. If the authors are employed by different institutions, each coauthor's family name is followed by a superscript figure with the corresponding data presented below. Alignment is centered. The names of organizations and places of work where the authors are employed should be given correctly and in relevant manner – **both in Russian and in English**. The only correct version is to present the officially approved full name of the organization, city and country (and full translation of the same). Meanwhile, only such fragment of the organization's name which refers to the notion of a legal entity should be mentioned, that is without the name(s) of a department, laboratory or any other structural subdivision within the organization. Preambles to the names specifying the status of an organization (FSBSI, FGEL, FSUE, FRC, etc.) need not be translated into English.

SAMPLE

UDC _____

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**Изменчивость глиадинкодирующих локусов
у местных сортов мягкой пшеницы (*Triticum aestivum* L.)**

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These data are followed by **the summary, abstract and key words** in Russian. Alignment is fully justified.

Genetic variability at gliadin coding loci and possible pathways spreading of common wheat (*Triticum aestivum* L.)

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These data are followed by **the summary, abstract and key words** in English. Alignment is fully justified.

2. Requirements for the abstract

The abstract is to be submitted in a sufficiently extensive form – first of all, it refers to the English version because it will serve as a main data source for the international community. That is why the English abstract may be expanded up to the volume of 250–350 words. Major results, findings and, if needed, methods and objectives should be clearly and expressly listed in it. Phraseology like “...the issues considered in the article are...” or “...the problem discussed is...” is not recommended. Writing an abstract is an important component of the citation index in the world’s scientific periodicals.

Research articles require clear and express representation of the sections **Background, Results, Conclusion** and, if needed, **Objective and Materials and methods**.

For descriptive articles, dividing the text into separate sections is not required.

SAMPLE

Abstract

Background. The great number of peroxidase genes are presented in higher plants. Plants contain multiple isoforms of peroxidases, which respond to stresses in different or similar manner. Peroxidase enzymes and their encoding are important for plant defence against various biotic stresses including pathogen infection. Little is known about their organization and evolution in the plants. **Materials and methods.** Identification, sequencing and phylogenetic comparison of gene fragment *TC151917* (A333699.1) were performed in different wheat species. **Results and conclusion.** The results postulated a close genetic proximity of the peroxidase gene AK333699 among *Triticum* L. species. Phylogenetic comparison showed high homology of anionic peroxidase genes of *Triticum aestivum* L. and *T. compactum* Host (97.1%), but the lowest with *T. timopheevii* (Zhuk.) Zhuk. (94.%). Sequenced anionic peroxidase gene *TC151917* of *T. aestivum* has the most homology with peroxidase of *Hordeum vulgare* L. (AK249487.1 – 93% and AK249784.1 – 90%), *Oryza sativa* L. (D84400 – 82%, BN000655 – 82% and V14481 – 80%), *Sorghum bicolor* (L.) Moench (XM_002447101.1 – 80%) and *Zea mays* L. (NM_001147217.1 – 79% and EU974071.1 – 78%). Thus, the described above peroxidase in related plant species can be identified as a particular cluster of polysaccharide-specific isoperoxidases.

Key words: wheat, *Triticum* and *Aegeilops* species, gene of peroxidase.

3. Requirements for the arrangement of the text

Introduction should outline the scope of issues considered in the article and briefly describe the essence of the studied problem together with its background (relevance). In the end, the objective of the research is posed.

The section **Materials and methods** should contain the list and characteristics of the materials used (origin of accessions, dates of their collection, etc.) as well as consecutive enumeration of all the methods employed. For commonly used methods, it is enough to provide references to the sources of data. For the less popular methods, it is necessary to describe their essence and/or specific features of the modifications applied. New, rare and unique methods should be described in sufficient detail, so that other research teams could reproduce them. If needed, the schemes of experiments, routes of collecting missions, etc. are presented. If in the process of work any instruments were used whose choice could influence the results of the research, or any new and unique devices, the manuscript should contain their brand names and, in parentheses, the name(s) of their producer(s) and the country of origin.

The data obtained are sequentially and in detail accounted for in the section **Results**. It is important to choose the easiest and most understandable manner of their presentation to the reader (text, graphics or tables). It is recommended first to relate the data obtained, and then proceed with their interpretation, comparison and discussion.

The text of the article is finalized with the section **Conclusion** or **Findings**.

- The names of the sections are typed in lowercase characters in a separate line, centered and separated from the previous and following paragraphs by one blank line (font: boldface; font size: **14pt**).
- The text of the sections is typed in lowercase characters (font: regular, font size: **14pt**).
- If abbreviations are used in the text, they should be expanded once, at their first appearance; for example: crop wild relatives (CWR). Conventional abbreviations are given as they are, without expansion; for example: DNA, PCR, CFU, etc.
- The rules of the International Code of Botanical Nomenclature are used to make taxonomic surveys and describe new taxa. Latin plant names should comply with the latest sources (it does not apply to the understanding of taxa boundaries). The taxa higher than the genus are presented in roman type (Fabaceae), the name of the genus and lower in italic type; names of the authors and the words determining the rank of taxa are in roman type. When a generic name is mentioned in the text for the first time, it is not abbreviated; later such generic name is abbreviated to the uppercase (first) letter, while the specific name remains unabbreviated: *Triticum durum* Desf., *T. aestivum* subsp. *hadropyrum* var. *schrederi* Udacz.
- The authors of the taxa appear in the text only when first mentioned. One should remember that in the abstract, summary, titles of the tables and captions of the figures names of taxa must include the authors.
- Gene names and symbols are presented in italic type, while the names of their products in roman type. For example: genes *Vrn1*, *af*, *det*, *sym*; proteins hsp 70, ATM, etc. Phage and virus names should be in roman type.
- Molecular size (length) of DNA fragments (nucleotide pairs) should be designated without points starting with a lowercase letter (**pm**).
- To indicate multiplication and crossing the *symbol* (×) is used.
- Minus (-) is used for hyphen, while the combination **Ctrl+minus** is used for the dash (–).
- All values should be expressed in the units of measurement approved by the National Standards (GOST) or the International System of Units (SI). Decimal fractions are separated with a comma, not a dot.
- To indicate the temperature the *symbol* “degree” (°) is used, not the “o” letter.
- Commonly used Russian abbreviations should contain inseparable spacing: т.°е., т.°д., т. п.
- Phenological phases are written starting with a lowercase letter and are separated with a

hyphen, not dash, without quotation marks or parentheses: **sprouting-flowering**.

- If an expert is not certain about the accuracy of an accession's name, he/she should write: **the accessions of the collection received from the country ____ under the name of ____**.
- When citations are included in the text, the author, year and page are to be indicated (Author, 2014. P. 67). When a table or a figure is cited, it should be marked (from A.A. Author, year).

4. Requirements for the list of references

The list of references should be formatted in compliance with the standard GOST 7.0.5–2008 and the requirements of the **Scopus** bibliographic and reference database.

The text of the article is followed by the list of cited sources “**References**”. The references in the list are placed under the main text in alphabetic order (Latin alphabet).

For publications that **do not** have an English (German or French) title and summary, it is necessary to present a translation of the publication's title into English, transliterated title of the publication, transliterated title of the journal, translation of the journal's title, and imprint data in due order – year, volume (issue, etc.), page; a reference to the publication's original language is given in brackets, if the language is not English, German or French: [**in Russian**]; and the Russian version of the reference.

Author A. A., Author B. B. Title of the article (Nazvanie stat`i). *Nazvanie zhurnala – Title of the Journal*, 2005, vol. 10, no 2, pp. 49–53 [**in Russian**] (*Автор А. А., Автор Б. Б.* Название статьи // Название журнала. 2005. Т. 10. № 2. С. 49–53).

For the publications with English (German or French) titles and summaries, no transliteration is required, but:

– if the journal has no official English title, it should be transliterated and translated into English:

Author A. A., Author B. B. Title of the article. *Nazvanie zhurnala – Title of the Journal*, 2005, vol. 10, no 2, pp. 49–53 [**in Russian**] (*Автор А. А., Автор Б. Б.* Название статьи // Название журнала. 2005. Т. 10. № 2. С. 49–53).

– if the journal has an official title in English:

Author A. A., Author B. B. Title of the article. *Title of the Journal*, 2005, vol. 10, no 2, pp. 49–53 [**in Russian**] (*Автор А. А., Автор Б. Б.* Название статьи // Название журнала. 2005. Т. 10. № 2. С. 49–53).

Citing electronic publications without permanent internet addresses (such as news feeds) is not permitted. The cited web sources must have at least a title, authorship and information on the time of publication (year). References to electronic scientific publications registered by INFORMREGISTR are allowed in the same way as references to printed scientific publications. If an article is published in English, reference to the Russian original of the cited publication should be omitted (only its transliteration and/or translation is given). The table of transliteration using combinations of characters according to GOST 7.79 – 2000 may be found at the website <http://transliteration.ru/gost-7-79-2000/>

For transliteration of a Russian text into Latin characters one can use the free website <http://www.translit.ru>.

If a source cited in the article has a digital object identifier (DOI), it should appear immediately after the source.

The number of the sources used should not exceed 20, except for surveys that are exempt from this rule.

5. Requirements for tables and figures

Tables are to be placed within the main text of an article. Tables are formatted using MSWord processing instruments in the TABLES section. The word “Table 3.” is followed by a full stop; then goes the title of the table (font size: 14pt, alignment: centered). The title is separated from the table by a blank line. If a figure or a table is cited from another source, the author(s) should be referred to: (from N.I. Ivanov, 2000). If more than one table is used, they should have consecutive numbers. Each table and every row and column inside it should have titles. Abbreviations (except conventional ones) are not permitted in tables. The contents of the tables should not duplicate the text. Tables should not contain columns or rows with the same values in all cells (i. e. values unchanged from cell to cell). Such cases should be specifically pointed out in a footnote to the table or in the text. If no data are available, a dash is used.

**Таблица 3. «Название таблицы»
Table 3. Title of the table**

All titles of columns and rows should appear in two languages – Russian and English.

Recommended font size for tables is 12pt, and no less than 10pt in case of high density of the text. All abbreviations and acronyms should be expanded in the footnotes to the table. Vertical and horizontal lines are mandatory for a table, except for the left and right boundaries. If a table does not fit within one page, its heading should be reproduced on each page of the table. If the text contains only one table, no table number is required.

Reference to a table in the text should be: Table³ or (Tab. 3). If the same table is mentioned more than once, (see Table 3) is used. If the article contains only one table, the same rule is applied but without any number: Table or (Table).

**Рис. 1. «Название рисунка»
Fig. 1. Caption of the figure**

All figures (including charts, graphs and diagrams) should be incorporated into the main text and **additionally** represented by files attached (.jpeg, .tiff; .xls, .xlsx – Excel formats) to the publication. All figures should be numbered. If only one figure is used, no number is required. The caption begins with “Fig. ².” followed by a full stop and the text of the caption (alignment: centered; font size: 14pt). A figure is referred to in the text as Fig. ².; a fragment of a figure as Fig.²a. If only one figure is used, no number is required, and the word “Figure” is not abbreviated. When inserting an illustration into the text one should select the text wrapping option “In front of text” (Image – Wrap Text – In Front Of Text) having drawn the text apart with a “blank line.” Illustrations may be multicoloured (for an online version), but should have copies – with shades of grey, black-and-white, or monochrome (for a printed version). The text of captions should be presented in the Russian and English languages.

Scanned pictures should have resolution no less than 300 dpi or, if the picture is tiny, 600 dpi, and saved in the .jpeg or .tiff format. **Font size in captions should be 12pt.**

If the authors wish to express their gratitude to individuals and/or scientific foundations who helped them to accomplish their work, such information should appear in the end of the article, before the list of references.

V. Editorial preparations

A manuscript is recognized as delivered to the editors immediately upon the receipt of its electronic version signed by the author(s).

All manuscripts are forwarded to two independent experts for peer reviewing. In the event of any debatable issues or controversial results of reviewing, the manuscript may be sent to one or two additional reviewers. When submitting the manuscript to the editors the authors may indicate the names of their colleagues with whom they have a conflict of interests; in this case, the manuscript will be forwarded for peer reviewing to other experts.

Following the reviewers' recommendations, a manuscript may be approved, or returned to the authors for making amendments, or rejected. Returning a manuscript to its author for amending does not mean that it has been accepted for publication. Authors are expected to make amendments only to the version returned to them by the editors. A response to the reviewers' comments may be inserted in the end of the manuscript after the list of references. Upon receiving the amended version the editors consider the manuscript once again. If a manuscript has been amended for more than two months or required considerable alterations, it is regarded by the editors as a new one.

The editors reserve the right to abridge the text and make editorial corrections in it, including the title of the article (with the author's consent). Amended and corrected manuscripts are accepted for publication only with the required accompanying document (copyright transfer agreement signed by the authors).

The editors will e-mail the proof version of the article to the author for proofreading. Only minor amendments to the text and tables are permitted during proofreading.

The editors of the journal will forward copies of the reviews or a motivated refusal to the authors of the submitted materials, and also undertakes to send copies of the reviews to the Ministry of Education and Science of the Russian Federation, provided that the editors of the journal receive such request.

VI. Contacts

Editorial Board of *Proceedings on Applied Botany, Genetics and Breeding*
e-mail: trudyVIR@vir.nw.ru

Federal Research Centre "The N. I. Vavilov All-Russian Institute of Plant Genetic Resources" (VIR)

42-44, ul. Bolshaya Morskaya
St. Petersburg 190000
Russian Federation

The last page should contain the following information:

1. Electronic address (e-mail) of the author
2. Mailing address with zip code
3. Name of the author preferred for further communication
4. Contact telephone number (home or office)
5. Data of all the coauthors (family names with initials, scientific degrees, and name(s) of their employer(s)).