Czech Journal of Genetics and Plant Breeding

INSTRUCTIONS TO AUTHORS

INSTRUCTIONS TO AUTHORS ........................................................................................................... 1
GENERAL INFORMATION .................................................................................................................. 2
The article processing charge ........................................................................................................... 2
Conflict of interest ............................................................................................................................. 2
Copyright ........................................................................................................................................ 2
PEER-REVIEW PROCESS ................................................................................................................ 2
MANUSCRIPT SUBMISSION .......................................................................................................... 3
MANUSCRIPT FILE LAYOUT ........................................................................................................ 4
  Manuscript extent .......................................................................................................................... 4
  Language ....................................................................................................................................... 4
  Tables ........................................................................................................................................... 4
  Figures ......................................................................................................................................... 4
  Equations ....................................................................................................................................... 4
  Nomenclature, abbreviations and units ........................................................................................ 4
  Statistics ......................................................................................................................................... 5
MANUSCRIPT PARTS ....................................................................................................................... 5
  i. Title ......................................................................................................................................... 5
  ii. Abstract ................................................................................................................................. 5
  iii. Keywords ............................................................................................................................. 5
  iv. Introduction .......................................................................................................................... 5
  v. Material and Methods ............................................................................................................ 5
  vi. Results and Discussion .......................................................................................................... 6
  vii. Conclusion ........................................................................................................................... 6
  viii. References .......................................................................................................................... 6
  ix. Supplementary Material ....................................................................................................... 7
PROOF-SHEETS ............................................................................................................................... 8
OFFPRINT ......................................................................................................................................... 8
TABLES AND FIGURES EXAMPLES ............................................................................................. 8
SELF ASSESSMENT .......................................................................................................................... 10
LIST OF ABBREVIATIONS ............................................................................................................. 11

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The journal uses double-blind peer review, which means that both authors and reviewers are anonymous to each other throughout the review process.

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9. The decision is communicated. The Executive Editor sends a decision e-mail to the corresponding author including any relevant comments.
10. **Next steps.** If *accepted*, the manuscript is sent to production. If the manuscript is *rejected* or sent back for either *major* or *minor revision*, the handling editor may include constructive comments from the reviews to help the author improve the paper. If the manuscript was sent back to authors for revision, the reviewers should expect to receive a new version, unless they have opted out of further participation. However, where only minor changes were requested, this follow-up review might be done by the handling editor.

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(iii) **Figures** – graphs preferably in MS Excel (editable .xls or xlsx); and images (photographs, schemas, diagrams, maps) in .jpg/.tiff format in high resolution.

(iv) **Cover letter** – explaining the significance and novelty of the work, the problem that is being addressed, and why the manuscript belongs in this journal.

(v) **Authors’ Declaration** form (link [For Authors/Author’ Declaration](https://www.agriculturejournals.cz/web/cjgpb/), signed, scanned, .pdf)

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Manuscript extent. Original paper should not exceed 20,000 characters including spaces, tables, references, and figure captions. Short communication format is intended for presentation of important observations that can be clearly described in an abbreviated format. A short communication must have an abstract and must not exceed 10,800 characters with spaces. There are no subheadings and a description of materials and methods must be integrated in the text. Review articles’ extent is not limited.

MS Word editor should be used for creating the text (Times New Roman, 12, lines 1.5; 2.5 cm margins on each edge of the page. The document must not be formatted in columns, heading styles etc. Pages and lines of the manuscript must be numbered in the left-hand margin. If any abbreviations or acronyms are used in the main text, they must be explained appropriately when used for the first time.

Language. The manuscript must be grammatically and linguistically correct (British English). The authors who are not native English speakers are strongly advised to get their manuscript checked by a native English-speaking colleague or by an English Editing Service prior to the submission to avoid acceptance problems.

Tables must be formatted in MS Word (will not be accepted as an image file). Each item must be placed into a separate cell. Tables are to be numbered with Arabic numerals in the order in which they are included in the text, and have a brief, but self-explanatory title. Explanatory footnotes to tables should be indicated by superscript letters (or asterisks for significance values). Abbreviations or symbols used in the tables must be explained either in the table title or as a footnote. For an explanation of abbreviations or symbols used in tables, it is not possible to refer to the main text.

Figures should be restricted to material essential for documentation and understanding of the text and accompanied by a concise, descriptive legend. Graphs should be provided in MS Excel and supplied with original data. Centred captions, parallel to axes, are used to indicate the measured attributes and their dimensions (in brackets). All illustrative material must be of publication quality. High-contrast photographs and autotypes must be submitted in .jpg/.tiff format in high resolution (min. 300 dpi). All photos, graphs, illustrations and diagrams must be referred to as a figure and numbered (Figure 1), continually according to the order in which they are included in the text, using Arabic numerals. Abbreviations or symbols used in the figures must be explained either in the figure title or as a footnote.

Duplicated documentation of data in both Tables and Figures is not acceptable.

Equations – Equations should be numbered using Arabic numerals (1). Each equation should be followed by a legend (where: y – refers to; x – indicates ...), explaining all variables and acronyms used, which were not explained previously. The equations should be further editable (use MathType, MS Word equations editor).

Nomenclature, abbreviations and units. The Latin binomial or trinomial (in italics) and authority must be shown for all plants, insects, animals, and pathogens when first used in either the abstract, the main text, or in a table. SI units should be used, e.g.: mg, g, km, m, cm, mm, ppm, cpm, Ci (Curie), L (litre), mL, s (seconds), min (minute), h (hour), mol, etc. Use mg/L instead of mg·L⁻¹. The definitive SI website is that of the Bureau International des Poids et Mésures at http://www.bipm.org/. Units must be indicated on each occurrence of numerical information and at the axes of all graphs. To express a unit of measurement, use a space between the number and the unit (5 g; 20 ha, 3 °C) except for
percentages (37%). In a series of measurements, indicate the unit at the end (3, 6, and 8 mm). Abbreviate units only after a numeric value (24 h; several hours later, 12 days). In chemical formulae the valence of ions must be given as, for example, Ca\(^{2+}\) and CO\(_3^{2-}\) rather than as Ca\(^{++}\) and CO\(_3^{--}\). Isotope numbers should precede the symbols (e.g., \(^{18}\)O). The decimal marker is a point (e.g., 0.1 m), while the thousand’s separator is a space on either side of the decimal period (e.g., 25 562.987 05). The decimal point in all numbers between 1 and –1, except 0, must be preceded by 0 (e.g., 0.26). In general, use words for numbers one through nine, and use digits for 10 and over. For a series of numbers, any of which are over 10, use all digits. Don’t use the MathType or MS Word Equations editor for symbols or variables written in the running manuscript text (use the Symbol letters). For more details see the List of abbreviations at the end of this file.

Statistics. Describe statistical methods with enough detail to enable a knowledgeable reader to verify the reported results. Give details of randomisation and blocking, as well as the number of replications, blocks, or observations. Clearly distinguish between true replications and subsamples within a replication/treatment combination. Always specify the experimental design and indicate whether the design was balanced. When means (or medians) are followed by \( \pm x \), indicate whether \( x \) refers to the standard deviation, standard error, or half the confidence interval; error bars should similarly be defined. Except for simple procedures (e.g., \( t \)-tests, one-way analysis of variance, simple linear regression), cite an appropriate and accessible statistical text and indicate the version of the SW used (Name, Version). In general, statistical techniques should be described in the Materials and Methods. The level of significance should be normally indicated by using the following conventional standard abbreviations for significance (\( P < 0.05 \), \( P < 0.01 \), and \( P < 0.001 \)). In tables, levels of significance should be indicated by *, **, and ***, respectively.

MANUSCRIPT PARTS (Original paper)

i. **Title** should be short and informative (preferably not exceeding 100 characters, no subtitles and commonly unknown abbreviations or acronyms). No subtitles or numbering of serial articles should be used.

ii. **Abstract** is a short summary of the scientific paper including an outline of the objective, method, results and conclusions of the paper (preferably not exceeding 200 words). It should describe all the essential facts of the paper and basic numerical data including any statistical evaluation should be incorporated. Being published in world databases, the abstract is a significant part of the paper, and it is therefore recommended that it is precise. The abbreviations can be used only when explained.

iii. **Keywords** are words most aptly describing the studied problem. A maximum of six keywords without overlapping with the manuscript title are recommended. Write them in lower case letters and separate them using semicolons.

iv. **Introduction** should provide information on the present state of research in the field concerned, supported by selected references to literary sources. It briefly justifies the research, specifies the hypotheses to be tested, and gives the objective(s).

v. **Material and Methods** describe in detail all preliminary material, experiments conducted, their extent, conditions and course. Specify the mentioned products used for the experiments by giving their exact name/type, name of the producer, and country of the producer’s headquarters in parentheses. All original procedures that were used for the processing of
experimental material and all analytical methods used for evaluation should also be detailed. The whole methodology is only to be described if it is an original one, in other cases, it is sufficient to cite the author of the method and to mention any particular differences. Data verifying the quality of acquired data should be indicated for the used methods. Methods of statistical processing including the software used should also be listed in this section. The methods and models of statistical analysis must be indicated and sufficient statistical details given to allow replication of the experiment.

vi. Results and Discussion (in two parts or under one heading). Results obtained from the experiments, including their statistical evaluation and commentary, should be presented graphically or in table-form, and the author should comment on the results and confront them with data published elsewhere.

vii. Conclusion summarises the paper’s main points and outlines its contribution to the present state of research in the field concerned.

viii. References. The authors are recommended to include references to papers from peer-reviewed periodicals only and avoid citations from non-available sources (reports, national journals, proceedings, thesis, etc.). Only papers cited in the text should be included in the reference list (and the sources of the data). The authors are responsible for the accuracy of their references. The authors are arranged alphabetically by the first authors’ surnames. If more than one paper by the same author(s) published in the same year is cited, the papers should be differentiated by YEAR a, b, c both in the text and the reference list. Literary sources should be cited in English. If English is not the original language, the original language should be mentioned at the end of the citation (e.g.: in Czech). The title of the periodical should be preferably typed in full.

Diacritical signs of national Latin-based alphabets should be preserved. Names in non-Latin alphabets should be transcribed according to international standards. The manuscript must be carefully checked to ensure that the spellings of authors’ names and publication years are exactly the same in the text as in the reference list. The citations should be limited to items really needed for placing the paper into a proper context.

In-text citations. The papers published by one or two authors are to be cited by their names, those published by three or more authors by the name of the first one et al. The name(s) of the author(s) and year of publication are to be cited by including them in the text directly, e.g., ... as published by Roberts (2013); Roberts and Pickles (2014), Candida et al. (2016) or indirectly, citing name(s) and year of publication in parentheses (Berger et al. 2006; Coyot 2007; Ahlin & Lin 2009). Several papers cited together should be arranged according to the year of publication starting with the oldest one, divided by semicolons.

Examples of the Reference’s format:

Journal article: Author(s) (Names of authors should be separated by commas, not by & and) (Year): Article title. Full journal title, Volume number: page–page.


In press article: Author(s) (Year): Article title. Full journal title, Volume number (in press).

Electronic journal article: Author(s) (Year): Title of article. Name of the electronic journal, Volume number: page–page. (accessed ...)


Book: Author(s) (Year): Title. Edition volume (if relevant). Place of publisher, Publisher name: page–page.


Chapter in book: Author(s) of the chapter (Year): Title of the chapter. In: editor(s): Title of the book. Edition or volume, if relevant. Place of publisher, Publisher name: page–page.


Conference proceedings: Author(s) (Year): Title of publication. In: editor(s): Proceedings Name of Conference, place, date (a month from-to), year: page–page.


Patent: Inventor(s) (Year): Name of patent. Labelled patent No., Issue date.


Dissertation: Author(s) (Year): Title. [PhD. Thesis.] Town, Name of the university.


ix. Supplementary Material. Authors can include original, so far unpublished supplementary material (SM) which may comprise additional tables, data sets, figures, and other non-essential files. SM will appear only in the electronic version. SM will be published as submitted and will not be corrected or checked for scientific content, typographical errors or functionality. SM must be relevant to the parent manuscript, but the manuscript must stand alone without SM for those readers who will be reading the hard copy only. It should be submitted along with the main manuscript in a separate file and identified as
“Supplementary file – for online publication only”. SM should be identified and mentioned in the main text as Table S1, Table S2, etc. for tables or Figure S1, Figure S2, etc. for figures or Supplementary Material S1, Supplementary Material S2, etc. for other material. SM should be submitted with the captions and source. Individual file sizes should be restricted to 10 MB maximum (zipped or unzipped).

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TABLES AND FIGURES EXAMPLES

Table 1. Pairwise fixation index between different types of resistance calculated from the SSR data set

<table>
<thead>
<tr>
<th>Type</th>
<th>HR (11)</th>
<th>R (34)</th>
<th>S (9)</th>
<th>HS (5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR</td>
<td>–</td>
<td>0.04*</td>
<td>–</td>
<td>0.07*</td>
</tr>
<tr>
<td>R</td>
<td>–</td>
<td>–</td>
<td>0.05**</td>
<td>0.08**</td>
</tr>
<tr>
<td>S</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>HS</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

*The number of hybrids in each group is indicated in parentheses; HR – highly resistant hybrids; R – resistant hybrids; S – susceptible hybrids; HS – highly susceptible hybrids; *, ** values significantly differ at \( P < 0.05 \) and \( P < 0.01 \)

Table 2. Effect of the cotyledon age and the length of pre-culture and co-culture on shoot regeneration during tomato transformation

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Days</th>
<th>Putative transformed shoots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>12</td>
<td>0.16 ± 0.077(^b)</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>0.58 ± 0.140(^a)</td>
</tr>
<tr>
<td>Pre-culture</td>
<td>0</td>
<td>0.37 ± 0.150(^ab)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>0.68 ± 0.170(^a)</td>
</tr>
</tbody>
</table>
Data are mean ± SE; significant differences at $P \leq 0.01$ for the cotyledon age and at $P \leq 0.05$ for the duration of pre-culture and co-culture; values followed by the same letter are not statistically different; $n = 4$ with 9 explants each.

Figure 1. Characteristics of miRNAs in manganese (Mn)-treated and untreated (ck) five-day-old *Arabidopsis thaliana* Col-0 seedlings: differentially expressed miRNAs by high throughput sequencing (A); qRT-PCR analysis of four miRNA (B).
Figure 2. Microspore-derived oilseed rape embryos on cultivation media; largest embryos (4–5 mm long) on liquid NLN-13 medium with well-developed cotyledons suitable for cutting of cotyledons (A); smaller embryos after 10 days on a solid DM medium ready for sampling (B); the method of trimming an embryo for the cotyledon removal (C–D); bar = 5 mm (A, B) or 1 mm (C, D)

SELF ASSESSMENT
Self-assessment questions to be answered by the authors before submission of the manuscript:

1. Is the information to be published new, and thus worthy of publication?
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6. Has the English been validated by a native-speaker knowledgeable about the field?
7. Is the list of references comprehensive, and are all the references relevant?
8. Where appropriate, are the results statistically significant?
9. Are the titles and legends for tables and figures complete and self-explanatory?
10. Were the Instructions to Authors thoroughly followed?

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LIST OF ABBREVIATIONS

The metric system is adopted as standard. You should use the international system of units. If non-standard abbreviations must be used they should be defined in the text.

Use the fundamental quantity with appropriate prefix:

- kilo: k
- mega: M
- giga: G
- tera: T
- milli: m
- micro: µ
- nano: n
- pico: p

Units of length:
- meter: m
- kilometer: km
- centimeter: cm
- millimeter: mm
- micrometer: µm
- nanometer: nm

Units of area:
- square meter: m²
- kilometer: km²
- hectare (10 000 m²): ha
- square centimeter: cm²
- square millimeter: mm²

Units of volume:
- cubic meter: m³
- cubic centimeter: cm³
- liter: L
- milliliter: mL
- microliter: µL

Units of mass:
- gram: g
- kilogram: kg
- tonne: t

- milligram: mg
- microgram: µg

Units of density:
- g/cm³, kg/m³, t/m³, g/L, kg/L

Units of pressure:
- pascal: Pa
- megapascal: MPa

Units of time:
- second: s
- minute: min
- hour: h
- day, week, month, year – not abbreviated

Units of temperature:
- Celsius: °C
- Kelvin: K

Additional physical units:
- dalton: Da
- hertz: Hz
- joule: J
- volt: V
- watt: W

Relative units:
- parts/million parts: ppm
- parts/billion parts: ppb
- parts/trillion parts: ppt
- percentage: %
- weight: w
- volume: V

Units of electrical conductivity:
- siemens per meter: S/m
- millisiemens per meter: mS/m (mS/cm; µS/cm)
- ohm: Ω

Units of concentration:
- mole per kilogram (liter): mol/kg (mol/L)
millimole (micromole) mmol/kg
per kilogram (µmol/kg)
gram per kilogram g/kg
milligram per kilogram mg/kg
microgram per kilogram µg/kg

Similar units for volume:
g/L, mg/L, mg/mL, µg/L, µg/mL

Units of irradiation:
watt per square meter W/m²

Units of photon flux density:
mol per square meter per second mol/m²/s

Units of yield, sampling and rate:
kilogram per hectare kg/ha
tonnes per hectare t/ha
liter per hectare L/ha
gram per hectare g/ha
gram per square meter g/m²
gram per kilogram g/kg
milligram per kilogram mg/kg

Unis of cation enhace capacity (CEC):
mmol of chemical equivalent per kilogram of soil or another materials mmol+/kg

Forms of nutrients:
Nitrite nitrogen NO₂⁻-N
Nitrate nitrogen NO₃⁻-N
Ammonia NH₄⁺-N
Total nitrogen Ntot
Sulfur in sulfate SO₄²⁻-S

You should state the content of organic matter in soils (topsoil, soil organic matter, etc.) entirely as C. You should specify the form of determined element, possibly the method of determination, by using subscripts. For example, content of carbon determined by oxidometric methods as Cₒₓ, furthermore Cₒᵣ₉ₑ, Cₜₒ₉, Cₒₓ humic acids and its solubility Cₜₕₑ, etc.
You should use the FAO guidelines (Food and Agriculture Organization) for characterisation of habitat conditions (soil type description according WRB – World References Base for Soil Resources 2006 version, soil textural class), as well as altitude, average rainfall and temperature, and if possible so coordinates.
You should assess the weather in different years and months according to recommendations of the World Meteorological Organization (WMO) – according to deviations from long-term average or normal.
You should state the method of determination nutrients in soil, for example content P (Olsen, Egner, Mehlich, etc.), possibly Pₒᵣ₉ₑ, Pₑᵣ₉ₑ etc.
You should not use the symbol of magnesium (Mg) for 1 000 kg (megagram), but use as the unit tonne (t). Don’t use the symbol M for the expression of amount of substance, but use the mol (mmol, µmol).

Statistical symbols and abbreviations
analysis of variance ANOVA
coefficient of variation CV
degree of freedom \( df \)

F-distribution \( F \)

least significant difference \( LSD \)

sample size \( n \)

probability \( P \)

simple correlation coefficient \( r \)

simple correlation of determination \( r^2 \)

multiple correlation coefficient \( R \)

multiple correlation of determination \( R^2 \)

variance (sample) \( s^2 \)

standard deviation (sample) \( SD \)

standard error \( SE \)

standard error of the differences of means \( SED \)

standard error of mean \( SEM \)

t-(or Student) test \( t \)

mean \( x \)

**Additional use symbols**

dry weight (matter) \( DW \) (DM)

dry weight \( FW \) (FM)

water use efficiency \( WUE \)

Revised: December 14, 2020