Instructions for Authors IVP

In Vitro Cellular & Developmental Biology – Plant (IVP) publishes peer-reviewed original research and reviews concerned with the latest developments and state-of-the-art research in plant cell and tissue culture and biotechnology from around the globe.

Established in 1965, IVP combines the official journals of the Society for In Vitro Biology’s Plant Section (SIVB) and the International Association for Plant Biotechnology (IAPB).

There are six issues per year, containing highly relevant, original research.

Four issues - published on behalf of the SIVB cover cellular, molecular and developmental biology research using in vitro grown or maintained organs, tissues or cells derived from plants. These follow the matrix categories given below.

Two special issues – published on behalf of the IAPB (numbers 2 and 5, published March/April and September/October) include original manuscripts, feature and review articles, and IAPB official notifications. The IAPB maintains a completely separate and independent international editorial review board for these two issues, which are not divided into the matrix categories listed below. Specifically, IAPB issues are focused on publishing high impact innovative research dealing with plant tissue culture and molecular and cellular aspects of plant improvement, which employ state-of-the-art tools of plant biotechnology to demonstrate an applied research on focused topics are invited by the Editors-in-Chief. Authors may submit topics in conceptual knowledge, molecular characterization of system.

Matrix Areas and Criteria for Consideration:

1. Invited Reviews and Feature Articles - Review and feature articles of current interest that advance our understanding of recent research on focused topics are invited by the Invited Reviews Editor in consultation with the Editors-in-Chief. Authors may submit topics with brief outlines to the Invited Reviews Editor for consideration. Criteria: By editorial invitation or pre-approval.

2. Symposium and Workshop Proceedings - Papers presented at the annual SIVB Congresses, and to other professional conferences, are encouraged to be written and submitted as Symposium or Workshop Proceedings for peer review. Collections of several papers from the same symposium or conference are encouraged, but individual proceedings articles are also welcomed. Criteria: Must satisfy criteria of appropriate matrix subject area below.

3. Biotechnology/Genetic Transformation/Functional Genomics - Transformation methods showing recovery of confirmed transgenic plants; transgene expression/ regulation; plant expression vectors; promoter/enhancer/terminator effects; transgene product structure–function; transgene combinations; field evaluation; bioinformatics. Criteria: Significant advance in conceptual knowledge and/or technological efficiency; molecular evidence of independent transformation events (Southern analysis using restriction enzyme that cuts once within the transferred DNA region for primary transformants; PCR analysis plus phenotype analysis for progeny generations; or insertional flanking sequence information); characterization of transgene expression levels (using Real Time PCR or other appropriate technology) and/or characterization of transgene product or functionality; recovery of whole plants.

4. Cell Biology - Cell cycle; cytodifferentiation and cytoskeleton; cell-cell interactions/signaling; protein targeting; organelles; structure–function relationships. Criteria: Significant advance in conceptual knowledge; molecular characterization of system.

5. Developmental Biology/Morphogenesis - Embryogenesis/embryogeny; gametogenesis/androgenesis; organogenesis; floral differentiation/development. Criteria: Significant advance in conceptual knowledge and/or technological efficiency applicable to multiple genotypes; recovery and characterization of whole plants and/or progeny; histological evidence of novel developmental pathway(s). Manuscripts will NOT be accepted that report on technical improvements on a specific variety/species where previous information is available, or on formation of shoots/roots without indicating the efficiency of recovery of transplantable plants.

6. Micropropagation - Automation; bioreactors; contamination control; disease indexing; scale-up; novel applications of technology; commercial production; cryogenic storage. Criteria: Significant advance in conceptual knowledge and/or technological efficiency; recovery and characterization of whole plants; detailed molecular characterization of genetic fidelity; demonstrated application for ex situ conservation and/or restoration of endangered species when the efficiency of recovery of transplantable plants, or demonstration of no somaclonal variation through limited molecular analysis in indicated. Manuscripts will be accepted that report on technical improvements on a specific variety/species where a finished and tested protocol for culturing using common techniques of modifying growth regulator ratios and concentrations but where addition data on performance or molecular characterization of regenerants or chemical composition of regenerants is lacking.
9. **Molecular Farming/Metabolic Engineering/Secondary Metabolism** - Transgenic production of recombinant proteins and pharmaceuticals such as antibodies, edible vaccines, industrial enzymes, etc.; biotransformation; metabolic flux; bioactive/medicinal compounds; bioreactors; scale-up. **Criteria:** Significant advance in production efficiency for targeted metabolites; analytical characterization of intermediates, products, enzymatic activities, and/or demonstration of biological efficacy; molecular evidence of transformation when applicable.

8. **Physiology** - Plant growth regulators; primary metabolism; regulatory processes; biochemical and signal transduction pathways. **Criteria:** Significant advance in conceptual knowledge; appropriate molecular, biophysical and/or biochemical characterization of system.

7. **Molecular Cell Genetics** - Somatic variation; epigenetics; mutagenesis; somatic hybridization; haploidization; T-DNA/ transposon tagging; homologous recombination. **Criteria:** Significant advance in conceptual knowledge and/or technological efficiency; molecular characterization of somatic hybrids, haploids, or heritability of mutation(s).

MANUSCRIPT SUBMISSION REQUIREMENTS

**Professional Code of Conduct**

Publication Ethics: The journals In Vitro Cellular and Developmental Biology - Plant (both SIVB and IAPB) subscribe to the editorial standards and guidelines for editors and authors of COPE (Committee on Publication Ethics). A detailed explanation of our ethical standards can be found at http://publicationethics.org/resources/code-conduct. These guidelines include a code of conduct and best practice guidelines for journal editors. All authors submitting articles to this journal are expected to comply with these standards. Reviewers and Editors will use the best practice guidelines for reviewing, evaluation and editing processes of manuscripts submitted to the journal. As a result of these guidelines the journal uses originality checking software as a tool to help identify plagiarized work. No manuscript with plagiarized verbiage will be accepted. Plagiarism refers to the inappropriate use of images or passages of text that have previously been published by the submitting authors (self-plagiarism) or by other authors that may or may not be referenced.

**Changes to Authors**

Author changes are not allowed after submission. Authors can be added at resubmission only when additional experiments are requested. No author changes are allowed after acceptance.

**Ethical Compliance**

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**Consensus Statement on Submission and Publication of Manuscripts**

**Duplicate Submission and Publication:** In general, if a manuscript has been peer-reviewed and published, any subsequent publication is a duplication. Exceptions to this general rule may be:

a) Prior publication in meeting program abstract booklets or expanded abstracts such as those published by In Vitro Cellular and Developmental Biology - Plant. However, these must be referenced in the final manuscript.

b) A manuscript which analyzes an original published database in a different way in order to prove or disprove a different hypothesis. Previous manuscripts reporting the original database must, however, be referenced.

c) Manuscripts which have been published originally in non-English language journals provided that the prior publication is clearly indicated on the English language submission and referenced in the manuscript. In some circumstances, permission to publish may need to be obtained from the non-English language journal.

d) Manuscripts derived from published Masters or Doctoral theses.

For example, any submission duplicating material previously published in full in "Proceedings" or book chapters is considered duplicate unless the exceptions in (a) above apply. Similarly, manuscripts dealing with subgroups of data (i.e., patients) that have previously been analyzed, discussed and published as a larger group are considered duplicate unless (b) above applies.

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**Fraudulent Publication**

The following activities are examples of fraudulent publication practices:

- Willful and knowing submissions of false data for publication.
MANUSCRIPT PREPARATION

Manuscripts are to be submitted in their final form. Papers must be written in English, and authors are strongly encouraged to aim for clarity, brevity, and accuracy of information and language. Authors whose first language is not English should have their papers checked for linguistic accuracy by a native English speaker. The Editors in Chief may be contacted for recommendations on a scientific editing service, if the English presentation is not to the journal standards but it is the responsibility of the corresponding author to ensure that their submission is to the highest standard. Failure to do so can lead to rejection by the Editors in Chief.

Submitted manuscripts should conform to the following format and sequence. The Reviews format is similar to that for articles described below, except that the body of the text may substitute major topic headings for Materials and Methods, Result, and Discussion. In Reviews, the Methods are integrated into the text or legend to figures and Results and Discussion are combined. Type double-spaced, and order the elements comprising the manuscript as follows:

- Title Page
- Abstract
- Key Words
- Introduction
- Materials and Methods
- Results
- Discussion (may be combined with Results)
- Conclusions
- Appendix (if any)
- Acknowledgements
- References
- Tables

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Authors must submit their articles to In Vitro Cellular and Developmental Biology - Plant online. A wide range of submission file formats is supported, including: Word, RTF, TIFF, GIF, JPEG, EPS, Excel and PowerPoint. PDF is NOT an acceptable file format for submission. During the submission process authors will be given the option between submitting their manuscript for publication in the regular In Vitro Cellular and Developmental Biology - Plant issues or in the special two IAPB issues. The manuscripts will then be assigned to the respective Editor in Chief.

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2) Authors participate in drafting the article or revising it critically for important intellectual content;
3) Authors give final approval of the version to be submitted and any revised version to be published.

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D. In Conclusion
This consensus statement is intended as the minimal criteria authors must adhere to. In the interest of promoting the highest ethics, all authors must adhere to these criteria when submitting a manuscript to a peer-reviewed journal.

While not intended as an all-inclusive document, these examples and guidelines should alert authors to potential problems that should be avoided when they are considering submission of a manuscript to a peer-reviewed journal.

- Submission of data from sources not the author’s (or authors’) own.
- Falsely certifying that the submitted work is original and has not been submitted to, or accepted by, another journal.
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- complete contact information for the one corresponding author including mailing and email address. More than one corresponding author will not be accepted.
- suggested running head (not to exceed 40 characters, including spaces) Note that the affiliation should be a footnote to the author’s name.

ABSTRACT: An abstract is to be provided, preferably no longer than 250 words. Do not use abbreviations, footnotes, or references in the abstract. NOTE: there is no abbreviation section in submissions. Abbreviations are identified on their first use in the main text of the article.

KEY WORDS: A list of 4–5 key words is to be provided directly below the abstract. Key words should express the precise content of the manuscript, as they are used for indexing purposes.

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ACKNOWLEDGMENTS: All acknowledgments, including those for grant, financial support, and potential conflicts of interest should be included in one separate paragraph that directly precedes the references section.

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The list of original references should only include works that are cited in the text and that have been published or accepted for publication. Personal communications should only be mentioned in the text.

In the text, references should be cited by author and year (e.g. Jordan 2000; Jordan and Somers 2006; Jordan et al. 2007) and listed in alphabetical order in the reference list.

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Name(s) and initial(s) of all authors; year; title of article; editor(s); title of book; edition; volume number; publisher; place of publication; page numbers.

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NOMENCLATURE:

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• Vector graphics exported from a drawing program should be stored in EPS format. High quality Excel files are also acceptable.

• Suitable drawing program: Adobe Illustrator. For simple line art the following drawing programs are also acceptable: PowerPoint, Corel Draw, Freehand, Canvas.

• No rules narrower than 0.25 pt.

• No gray screens paler than 15% or darker than 60%.

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• Black & white and color figures should be saved in JPG, TIFF or EPS formats.

• Figures should be created using Adobe Photoshop whenever possible.

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• Separate files should be prepared for the frames from a video that are to be printed in the journal. When preparing these files you should follow the same rules as listed under Halftone Figures.

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Upon submission of multimedia or dynamic articles, the author(s) will be required to submit the video in the following format:

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• Multimedia file for review and submission: MPEG-1 file with the largest frame size (usually 320 x 240 pixels) that will fit on a CD and will be playable on a Windows-based computer.

• The content of these files must be identical to that reviewed and accepted by the editors of the In Vitro Plant and Animal Journals.

• All narration should be in English.

• There should be a “manuscript” submitted with the video that includes a title page, abstract and key words, as well as references if needed.

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