

In Vitro Cellular & Developmental Biology – Plant (In Vitro Plant) 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 Division (SIVB) and the International Association for Plant Biotechnology (IAPB, formerly International Association for Plant Tissue Culture & Biotechnology).

There are six issues per year, containing highly relevant, original research. Four issues - published on behalf of the renowned SIVB - cover cellular, molecular and developmental biology research using in vitro grown or maintained organs, tissues or cells derived from plants.

Two special issues – published on behalf of the IAPB - deal with plant tissue culture, and molecular and cellular aspects of plant biotechnology.

The complete scope of the journal is embodied in the following matrix:

1. **Biotechnology / Genetic Transformation / Functional Genomics** - Transformation methods; transgene expression/regulation; plant expression vectors; promoter/enhancer/scaffold attachment/transgene product structure-function; field evaluation.
2. **Cell Biology** - Cell cycle; cytodifferentiation; cell-cell interactions/signaling; protein targeting; organelles; structure-function.
3. **Developmental Biology / Morphogenesis** - Embryogenesis; embryogeny; gametogenesis; organogenesis; floral differentiation/development.
4. **Metabolic Engineering / Secondary Metabolism** - Biotransformation; metabolic flux; bioactive/medicinal compounds.
5. **Micropropagation** - Acclimatization; automation; bioreactors; cloning; contamination control; disease indexing; scale-up.
6. **Molecular Farming** - Transgenic production of recombinant proteins and pharmaceuticals such as antibodies, edible vaccines, industrial enzymes, etc.
7. **Physiology** - Plant growth regulators; primary metabolism; regulatory processes; signal transduction.
8. **Somatic Cell Genetics** - Somaclonal variation; epigenetics; mutagenesis; somatic hybridization; T-DNA/transposon tagging; homologous recombination.

Two special issues (numbers 2 and 5, published March/April and September/October) are published as the official journal of the IAPB, and include original manuscripts, feature and review articles, commentary, and IAPB official notifications. The IAPB maintains a completely separate and independent international editorial review board for these two issues. Original manuscripts dealing with plant tissue culture and molecular and cellular aspects of plant biotechnology are the focus of these two issues and are not divided into the preceding matrix categories.

MANUSCRIPT SUBMISSION REQUIREMENTS

When submitting a manuscript for consideration, authors should select the matrix heading which best covers the scope of their manuscript. Invited reviews and letters-to-the-editor will also be published.

ONLINE SUBMISSION

Authors are encouraged to submit their articles to *In Vitro Plant* online. This will allow even quicker and more efficient processing of your manuscript.

During the submission process authors will be given the option between submitting their manuscript for publication in the regular *In Vitro Plant*

INFORMATION FOR AUTHORS

issues or in the special two IAPB issues. The manuscripts will then be assigned to the respective Chief Editor.

Chief Editor, SIVB issues:

Dr. Gregory Phillips
Arkansas State University
Jonesboro, AR, USA

Chief Editor, IAPB issues:

Dr. Nigel Taylor
Donald Danforth Plant Science Center
St. Louis, MO, USA

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MANUSCRIPT PREPARATION

Manuscripts are to be submitted in their final form. Papers must be written in English, and authors are urged 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.

Submitted manuscripts should conform to the following format and sequence. Type double-spaced, and order the elements comprising the manuscript as follows:

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

TITLE PAGE: The title page should include

- the title of the article
- author(s)' name(s) and affiliation(s) (the department and institution from which the work originated)
- complete mailing address of the one author who will review the proofs
- 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.

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

RESULTS AND DISCUSSION: The Results and Discussion sections may be combined or separate.

ACKNOWLEDGMENTS: All acknowledgments (including those for grant and financial support) should be typed in one separate paragraph that directly precedes the references section.

REFERENCES

The list of 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. Hammer 1994; Hammer and Sjöqvist 1995; Hammer et al. 1993) and listed in alphabetical order in the reference list.

JOURNAL ARTICLES:

Kraft T, Hansen M, Nilsson N-O (2000) Linkage disequilibrium and fingerprinting in sugar beet. *Theor Appl Genet* 101:323–326

SINGLE CONTRIBUTIONS IN A BOOK:

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.

Example: Farquhar GD, Caemmerer S von (1982) Modelling of photosynthetic response to environmental conditions. In: Lange OL, Nobel PL, Osmon CB, Ziegler H (eds) *Encyclopedia of plant physiology, NS. Physiological plant ecology II*, vol 12 B. Springer, Berlin Heidelberg New York, pp 550–587

BOOK:

Name and initial(s) of all authors; year; title; publisher; place of publication.

Example: Schwarze FWMR, Engels J, Mattheck C (2000) *Fungal Strategies of Wood Decay in Trees*. Springer, Berlin Heidelberg New York

AGENCY PUBLICATION:

Council of biology editors style manual. CBE style manual committee. 5th ed. Bethesda, MD: Council of Biology Editors; 1983

WEB PAGES:

1. Article by DOI (with page numbers): Slifka MK, Whitton JL (2000) Clinical implications of dysregulated cytokine production. *J Mol Med* 78:74–80. doi: 10.1007/s001090000086

2. Article by DOI (before issue publication with page numbers): Slifka MK, Whitton JL (2000) Clinical implications of dysregulated cytokine production. *J Mol Med* (in press). doi: 10.1007/s001090000086

3. Article in electronic journal by DOI (no paginated version): Slifka MK, Whitton JL (2000) Clinical implications of dysregulated cytokine production. *Dig J Mol Med*. doi: 10.1007/s801090000086

4. Online document: Doe J (1999) Title of subordinate document. In: *The dictionary of substances and their effects*. Royal Society of Chemistry. Available via DIALOG. http://www.rsc.org/dose/title_of_subordinate_document. Cited 15 Jan 1999

5. Online database: Healthwise Knowledgebase (1998) *US Pharmacopeia*, Rockville. <http://www.healthwise.org>. Cited 21 Sept 1998

6. Supplementary material/private homepage: Doe J (2000) Title of supplementary material. <http://www.privatehomepage.com>. Cited 22 Feb 2000

7. University site: Doe J (1999) Title of preprint. <http://www.uni-heidelberg.de/mydata.html>. Cited 25 Dec 1999

8. FTP site Doe J (1999) Trivial HTTP, RFC2169. <ftp://ftp.isi.edu/in-notes/rfc2169.txt>. Cited 12 Nov 1999

9. Organization site: ISSN International Centre (1999) Global ISSN database. <http://www.issn.org>. Cited 20 Feb 2000

NOMENCLATURE

The recommendations of the Society for In Vitro Biology Committee on Terminology should be followed. Schaeffer, W. I. Terminology associated with cell, tissue and organ culture, molecular biology and molecular genetics. *In Vitro Cell. Dev. Biol.* 26:97-101; 1990.

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Print article with video supplementary material

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