

NOTES FOR AUTHORS

Seed Science Research provides an international vehicle for the publication of original papers and review articles on the fundamental aspects of seed research. The emphasis is on the physiology, biochemistry, molecular biology and ecology of seeds, covering the following key topics: seed and embryo development, genetic engineering (modification), biotechnology, maturation, dormancy, germination, viability, longevity, vigour, chemical and structural defences, reserve mobilization, ecophysiology, seed–soil and seed–animal interactions and computer modelling.

All articles should be exclusively submitted via email to:
ssrjournal@cambridge.org

Authors are asked to keep personal copies of all files submitted.

On submission

Text. Articles should be single column, double line spaced. The use of formatting should be minimal. However, when necessary bold, italic, subscript and superscript should be indicated using the facilities of the word processing software. Tables, figures and equations should also be included as separate pages, and appropriately cited within the text (i.e. “Table 1 here”). Standard abbreviations (e.g. Fig. and Figs) and IUPAC units must be used. Use British rather than American spellings. Use ‘z’ rather than ‘s’ spellings in words with ‘ize’.

Abstract. Each article must commence with an accurate, informative abstract in one paragraph, that is complete in itself and intelligible without reference to text or figures. It should not exceed 250 words. A short title should be provided as a running head.

Keywords. Between four and seven should be given in alphabetical order. They should include the main subjects of the research and the plant material.

Tables. Tables should be reduced to the simplest form and present only essential data. The use of vertical rules should be avoided whenever possible.

Illustrations. All figures should be accompanied by appropriate legends. The inclusion of color illustrations will require the authors to make a financial contribution towards the costs.

To ensure that your figures are reproduced to the highest possible standards, Cambridge Journals recommends the following formats and resolutions for supplying electronic figures.

Please ensure that your figures are saved at final publication size and are in our recommended file formats. Following these guidelines will result in high quality images being reproduced in both the print and the online versions of the journal.

Line artwork

Format: tif or eps

Colour mode: black and white (also known as 1-bit)

Resolution: 1200 dpi

Combination artwork (linel/one)

Format: tif or eps

Colour mode: grayscale (also known as 8-bit)

Resolution: 800 dpi

Black and white halftone artwork

Format: tif

Colour mode: grayscale (also known as 8-bit)

Resolution: 300 dpi

Colour halftone artwork

Format: tif

Colour mode: CMYK colour

Resolution: 300 dpi

References. References are loosely based on the Harvard System; they are cited in the text, using the author’s surname and the year of publication, e.g. Henderson (1999) in chronological order. Where a reference has two

authors ‘and’ should be used in the text and the reference list. Where three or more authors appear ‘et al.’ should be used in the text, e.g. Hoekstra *et al.* (1999), but the surnames and initials of all the authors must be given in the list as follows.

Journal Article

Dussert, S., Chabrilange, N., Engelmann, F. and Hamon, S. (1999) Quantitative estimation of seed desiccation sensitivity using a quantal response model: application to nine species of the genus *Coffea* L. *Seed Science Research* 9,135–144.

Books

Cromarty, A.S., Ellis, R.H. and Roberts, E.H. (1985) *The design of seed storage facilities for genetic conservation*. Rome, International Board of Plant Genetic Resources.

Leopold, A.C. and Vertucci, C.W. (1986) Physical attributes of desiccated seeds, pp. 22–34 in Leopold, A.C. (Ed.) *Membranes, metabolism and dry organisms*. Ithaca, NY, Cornell University Press.

Chang, C.W. (1975) Fluorides, pp. 57–95 in Mudd, J.B.; Kowlowski, T.T. (Eds) *Responses of plants to air pollution*. New York, Academic Press.

Conference Proceedings

Eira, M.T.S., Walters, C. and Caldas, L.S. (1999) Critical water content for desiccation damage in coffee seeds: a role for aqueous glasses? p. 105 in *Proceedings from the VI international workshop of seed biology*, January 1999, Merida, Mexico.

Sun, W.Q. (1997) Function of the glassy state in seed storage stability, pp. 169–179 in Taylor, A.G.; Huang, X-L. (Eds) *Progress in seed research: proceedings of the second international conference on seed science and technology*. Geneva, New York, Communication Services, New York State Agricultural Experiment Station.

On final acceptance

Proofs. The corresponding author will receive a PDF file page proofs by email.

Copyright. Authors will be supplied with a copyright form which must be completed and returned to the Publisher. Papers are accepted on the understanding that the work has been submitted exclusively to the Journal and has not been previously printed elsewhere unless otherwise stated. Violations of scientific ethics, such as submission of work already published elsewhere, material in press, or plagiarism of other published work (in print or electronic form), will result in severe penalties. A lifetime ban will be imposed upon any authors violating these standards of scientific conduct.

Offprints. The author of an accepted paper will receive a free PDF file via email. Paper offprints may be purchased prior to the article going to press. An order form is available from the Publisher for this purpose and will be sent to the corresponding author with the article proofs. Completed order forms must be received before the article is printed.

Reprints. For all enquiries relating to bulk reprints for commercial use please email special_sales@cambridge.org

SEED SCIENCE RESEARCH

CONTENTS

EDITORIAL

H.W.M. Hilhorst

1-1

RESEARCH OPINION

Sensitivity cycling and its ecological role in seeds with physical dormancy

K.M.G.G. Jayasuriya, J.M. Baskin and C.C. Baskin

3-13

INVITED REVIEW

Nuclear DNA replication and seed quality

E. Sliwinska

15-25

Slime cells on the surface of *Eragrostis* seeds maintain a level of moisture around the grain to enhance germination

A. Kreitschitz, Z. Tadele and E.M. Gola

27-35

Smoke-water-induced changes of expression pattern in Grand Rapids lettuce achenes

V. Soós, A. Juhász, M.E. Light, J. Van Staden and E. Balázs

37-49

On the use of fungicides in ecological seed burial studies

N. Mitschunas, J. Filser and M. Wagner

51-60

BOOK REVIEW

Seedling ecology and evolution

K. Thompson

61-62

Sign up to Cambridge Journals Online

You can now:

- > Access complimentary sample material
- > Register for table-of-contents email alerts and stay up-to-date with the latest findings
- > Save searches
- > Download citations to reference management software

To register, visit journals.cambridge.org/register

Cambridge Journals Online

For further information about this journal
please go to the journal web site at:

www.journals.cambridge.org/ssr

CAMBRIDGE
UNIVERSITY PRESS