

SEED SCIENCE RESEARCH



CAB INTERNATIONAL

SEED SCIENCE RESEARCH

Seed Science Research is an international journal specifically addressing basic scientific research on seeds published quarterly by CAB INTERNATIONAL

Editor

M. Black, London, UK

Associate Editors

C. M. Karssen, Wageningen, Netherlands
R. D. Hill, Manitoba, Canada
K. Thompson, Sheffield, UK

Review Board

J. M. Baskin, Lexington, USA	A. C. Leopold, Ithaca, USA
J. D. Bewley, Guelph, Canada	A. Mayer, Jerusalem, Israel
K. J. Bradford, Davis, USA	B. McKersie, Guelph, Canada
C. M. Bray, Manchester, UK	D. Osborne, Oxford, UK
D. Côme, Paris, France	N. Pinfield, Bristol, UK
A. Cuming, Leeds, UK	R. J. Probert, Ardingly, UK
M. Delseny, Perpignan, France	E. H. Roberts, Reading, UK
M. Fenner, Southampton, UK	P. Schopfer, Freiburg, Germany
G. B. Fincher, Glen Osmond, Australia	C. W. Vertucci, Fort Collins, USA
J. Greenwood, Guelph, Canada	E. Vigil, Beltsville, USA
G. Hendry, Sheffield, UK	M. K. Walker-Simmons, Pullman, USA
H. W. M. Hilhorst, Wageningen, Netherlands	T. Wang, Norwich, UK

Seed Science Research is a medium for original articles on seed biology, especially the physiology, biochemistry, molecular biology and ecology of seeds, covering seed and embryo development, maturation, dormancy, germination, viability, longevity, vigour, reserve mobilization and seedling establishment. In seed ecology, contributions on physiological, biochemical, genetic and morphological aspects, seed–soil and seed–animal interactions and computer modelling are invited. Papers on microbial effects and ‘applied’ research (e.g. priming, pelleting, biotechnology) will also be included if they have a sound theoretical base or high physio-biochemical or ecological content and/or relevance. The journal includes review articles, both commissioned and contributed, and letters (see Notes for Authors).

Authors should submit original manuscript and artwork plus two copies to:
Professor M. Black, Division of Life Sciences,
King’s College London, Campden Hill Road, London, W8 7AH, UK
(see Notes for Authors)

Orders and enquiries concerning subscriptions should be sent to:

Marketing and Distribution Services,
CAB INTERNATIONAL,
Wallingford, Oxon, OX10 8DE, UK.
Telephone: Wallingford (01491) 832111
Telex: 847964 (COMAGG G)
Fax: (01491) 833508
Telecom Gold/International Dialcom: 84: CAU001

Disclaimer

The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

CAB INTERNATIONAL does not accept responsibility for any trade advertisement included in this publication.

Seed Science Research

Research Viewpoint

- Black, M.** Liberating the radicle: A case for softening up 39

Physiology and Biochemistry

- Dixit, S. & Amritphale, D.** Very low fluence and low fluence response in the induction and inhibition of seed germination in *Celosia argentea* 43

- Liu, Y. Q., Bino, R. J., van der Burg, W. J., Groot, S. P. C. & Hilhorst, H. W. M.** Effects of osmotic priming on dormancy and storability of tomato (*Lycopersicon esculentum* Mill.) seeds 49

- van Pijlen, J. G., Groot, S. P. C., Kraak, H. L., Bergervoet, J. H. W. & Bino, R. J.** Effects of pre-storage hydration treatments on germination performance, moisture content, DNA synthesis and controlled deterioration tolerance of tomato (*Lycopersicon esculentum* Mill.) seeds ... 57

Ecology

- Ollerton, J. & Lack, A. J.** Partial predispersal seed predation in *Lotus corniculatus* L. (Fabaceae) 65

- Praciak, A.** Seed storage of plant genetic resources 71

- Hodkinson, D.** Seventeenth Annual Seed Biology Meeting, University of Hertfordshire, Hatfield, UK, April 1996 77

- CAB INTERNATIONAL** - meeting the information needs of the seed science community 79

Abstracted in *Seed Abstracts* (CAB ABSTRACTS),
CABS (Current Awareness in Biological Sciences),
Current Advances in Plant Science and BIOSIS,
SciSearch®, *Research Alert*®, and *Current Contents*®/*Agriculture, Biology & Environmental Sciences*

© CAB INTERNATIONAL, 1996

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without prior permission of the copyright owner.