

SEED SCIENCE RESEARCH



C·A·B International

SEED SCIENCE RESEARCH

Seed Science Research is an international journal specifically addressing basic scientific research on seeds published quarterly by C A B International

Editor:

M Black, London, UK

Associate Editors:

R D Hill, Winnipeg, Canada

C M Karssen, Wageningen, Netherlands

Review Board:

J D Bewley, Guelph, Canada

C F Jenner, Glen Osmond, Australia

J W Bradbeer, London, UK

A C Leopold, Ithaca, USA

C M Bray, Manchester, UK

A Marcus, Philadelphia, USA

D Côme, Paris, France

A Mayer, Jerusalem, Israel

A Crozier, Glasgow, UK

B McKersie, Guelph, Canada

A Cuming, Leeds, UK

R Obendorf, Ithaca, USA

M Delseny, Perpignan, France

D Osborne, Oxford, UK

G Egley, Stoneville, USA

N Pinfield, Bristol, UK

R H Ellis, Reading, UK

A Pradet, Bordeaux, France

M Fenner, Southampton, UK

E H Roberts, Reading, UK

G B Fincher, Bundoora, Australia

P Schopfer, Freiburg, Germany

B Frankland, London, UK

E Vigil, Beltsville, USA

J Greenwood, Guelph, Canada

M K Walker-Simmons, Pullman, USA

P J Grime, Sheffield, UK

T L Wang, Norwich, UK

M A Hall, Aberystwyth, UK

Seed Science Research is a medium for original articles on the physiology, biochemistry and molecular biology of seeds, covering seed and embryo development, maturation, dormancy, germination, viability, longevity, vigour, reserve mobilization, and the early stages of establishment. Papers on ecology, ecophysiology and applied research (e.g.

priming, pelleting, biotechnology) will also be included if they have a sound theoretical base or a high physio-biochemical 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,
C A B INTERNATIONAL,
Wallingford, Oxon, OX10 8DE, UK
Telephone Wallingford (0491) 832111
Telex 847964 (COMAGG G)
Fax (0491) 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.

C A B International does not accept responsibility for any trade advertisement included in this publication.

Seed Science Research

Editorial Comment	217
Review Articles	
Bedi, S & Basra, A S Chilling injury in germinating seeds: basic mechanisms and agricultural implications	219
Leprince, O, Hendry, G A F & McKersie, B D. The mechanisms of desiccation tolerance in developing seeds	231
Research Papers	
Demir, I. & Ellis, R H Changes in potential seed longevity and seedling growth during seed development and maturation in marrow	247
Downie, B, Bergsten, U, Wang, B S P & Bewley, J D Conifer seed germination is faster after membrane tube invagination than after prechilling or osmotic priming	259
Foley, M E, Nichols, M B & Myers, S P Carbohydrate concentrations and interactions in afterripening-responsive dormant <i>Avena fatua</i> caryopses induced to germinate by gibberellic acid	271
Gutiérrez, G, Cruz, F, Moreno, J, González-Hernández, V A & Vázquez-Ramos, J M Natural and artificial seed ageing in maize: germination and DNA synthesis	279
Kanzaki, K, Kawabata, C & Noda, K Localization of α -amylase and its inhibitor in germinating wheat seed	287
Index of Authors (Volume 3)	293
Index of Contents (Volume 3)	295

Abstracted in *Seed Abstracts* (CAB ABSTRACTS)
Current Advances in Plant Science and BIOSIS

© C A B International 1993

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.
