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.

Associate Editors:

Review Board:

J D Bewley, Guelph, Canada

J W Bradbeer, London, UK

C M Brav. Manchester. UK

D Côme, Paris, France

A Crozier, Glasgow, UK

A Cuming, Leeds, UK

M Delseny, Perpignan, France

G Egley, Stoneville, USA

R H Ellis, Reading, UK

M Fenner, Southampton, UK

G B Fincher, Bundoora, Australia

B Frankland, London, UK

J Greenwood, Guelph, Canada

P J Grime, Sheffield, UK

M A Hall, Aberystwyth, UK

M Black, London, UK

R D Hill, Winnipeg, Canada

C M Karssen, Wageningen, Netherlands

C F Jenner, Glen Osmond, Australia

A C Leopold, Ithaca, USA

A Marcus, Philadelphia, USA

A Mayer, Jerusalem, Israel

B McKersie, Guelph, Canada

R Obendorf, Ithaca, USA

D Osborne, Oxford, UK

N Pinfield, Bristol, UK

A Pradet, Bordeaux, France

E H Roberts, Reading, UK

P Schopfer, Freiburg, Germany

E Vigil, Beltsville, USA

M K Walker-Simmons, Pullman, USA

T L Wang, Norwich, 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 Biosphere 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) 32111 Telex 847964 (COMAGG G) Fax (0491) 33508 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

Review Article	
Wolswinkel, P Transport of nutrients into developing seeds a review of physiological mechanisms	59
Research Papers	
Dell'Aquila, A., & Spada, P Regulation of protein synthesis in germinating wheat embryos under polyethylene glycol and salt stress	75
Demir, I., & Ellis, R. H Changes in seed quality during seed development and maturation in tomato	81
Gray, D, Steckel, J. R A, & Hands, L J Leek (Allium porrum L) seed development and germination	89
Livesley, M. A., Bulleid, N. J., & Bray, C. M. Protein disulfide isomerase in germinating wheat (Triticum aestivum) seed and during loss of viability	97
Sánchez-Nieto, S., Rodríguez-Sotres, R., González-Romo, P., Bernal-Lugo, I., & Gavilanes-Ruíz, M. Tonoplast and plasma membrane ATPases from maize lines of high or low vigour	105
Correspondence	
Seed storage, temperature and relative humidity Smith, R. D	113

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

€ C A B International, 1992

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.