# EDINBURGH JOURNAL OF BOTANY

# AN INTERNATIONAL JOURNAL OF PLANT SYSTEMATICS AND BIODIVERSITY

VOLUME 56, No.3



## EDITORIAL BOARD

Dr Brian Coppins (Senior Editor) Royal Botanic Garden Edinburgh

Professor John Raven FRSE FRS (Editor-in-Chief/Chairman) University of Dundee

Kim Howell (Production Editor) *Royal Botanic Garden Edinburgh* 

Dr Toby Pennington (Book Review Editor) Royal Botanic Garden Edinburgh

Dr Paul Cannon International Mycological Institute, Egham

Professor Geoffrey Dixon University of Strathclyde, Glasgow

Dr Peter Gibbs University of St Andrews

Norma Gregory Royal Botanic Garden Edinburgh

Professor Hu Chi-ming South China Botanical Institute, Guangzhou Professor Per Magnus Jørgensen University of Bergen

Dr Kathleen Kron Wake Forest University, Winston-Salem

David Long Royal Botanic Garden Edinburgh

Professor John McNeill Royal Ontario Museum, Toronto

Dr Robert Mill Royal Botanic Garden Edinburgh

Dr Dan Nicolson Smithsonian Institution, Washington

Professor Franz Oberwinkler University of Tübingen

Professor Peter Raven Missouri Botanical Garden, St Louis

Professor Clive Stace University of Leicester

Professor Benito Valdés University of Seville

### SUBSCRIPTIONS

*Edinburgh Journal of Botany* (ISSN 0960-4286) is published three times a year in March, July and November. Three parts form a volume. The subscription price of volume 56 (which includes postage, but excludes VAT) is £98.00 (US \$167.00 in the USA, Canada and Mexico). Single parts are £34.00 net (US \$58.00 in the USA, Canada and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Prices include delivery by air. Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, UK; or in the USA, Canada and Mexico: Cambridge University Press, 40 West 20th Street, New York, NY 10011-4211, USA. Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay.

#### COPYING

The *Journal* is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organisations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law) subject to payment to C.C.C. of the per-copy fee of \$12.50. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0960-4286/99/\$12.50.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorised to supply single copies of separate articles for private use only.

Organisations authorised by the Copyright Licensing Agency may also copy material subject to the usual conditions.

For all other use of material from the *Journal* permission should be sought from Cambridge or from the American Branch of Cambridge University Press.

Information on *Edinburgh Journal of Botany* and all other Cambridge journals can be accessed via http://www.cup.cam.ac.uk/ and in North America via http://www.cup.org/.

Typeset, Printed and Bound by The Charlesworth Group, Huddersfield, UK, 01484 517077

© Trustees of the Royal Botanic Garden Edinburgh (1999).