## **JOURNALS**

# Journal of Dairy Research

Published for the Institute of Food Research and the Hannah Research Institute

### **Executive Editors**

D. G. Chamberlain, Hannah Research Institute, UK E. C. Needs, Hannah Research Institute, UK

Journal of Dairy Research publishes original scientific research on all aspects of mammary biology and dairy science including: the physiology, biochemistry, cell biology and endocrinology of lactation; animal husbandry, milk production, composition, preservation, processing and separation; biotechnology and food science; properties of milk proteins and other components; dairy products such as cheese, fermented milks and spreads; relevant studies in bacteriology, enzymology and immunology, the use of milk products in other foods; and the development of methods relevant to these subjects.

## **Price information**

is available at: http://journals.cambridge.org/dar

## Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/dar-alerts



## Journal of Dairy Research

is available online at: http://journals.cambridge.org/dar

## To subscribe contact Customer Services

## in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

## in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org



## CAMBRIDGE

## **JOURNALS**

## animal

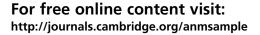
Published for The Animal Consortium www.animal-journal.eu

### **Editor-in-Chief**

Michel Doreau, INRA, Clermont-Theix, France

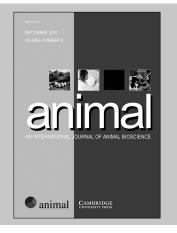
animal publishes original cutting-edge research, 'hot' topics and horizon-scanning reviews on animal-related aspects of the life sciences at the molecular, cellular, organ, whole animal and production system levels.

The main subject areas include: breeding and genetics; nutrition; physiology and functional biology of systems; behaviour, health and welfare; farming systems, environmental impact and climate change; product quality, human health and well-being.



## Free email alerts

Keep up-to-date with new content http://journals.cambridge.org/anm-alerts



### animal

is available online at: http://journals.cambridge.org/anm

## To subscribe contact Customer Services

### Americas:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org

## Rest of world:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

## **Price Information**

is available at: http://journals.cambridge.org/anm



## **JOURNALS**

# Journal of Tropical Ecology

### **Editor**

Ian Turner, Winchelsea, UK

Journal of Tropical Ecology publishes papers in the important and now established field of the ecology of tropical regions, either arising from original research (experimental or descriptive) or forming significant reviews. First published in 1985, Journal of Tropical Ecology has become a major international ecological journal. With clear, stimulating and readable reports of recent research findings, the journal provides a platform for the dissemination of information on all aspects of tropical communities and ecosystems

## **Price information**

is available at: http://journals.cambridge.org/tro

## Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/tro-alerts

For free online content visit: http://journals.cambridge.org/tro



## Journal of Tropical Ecology

is available online at: http://journals.cambridge.org/tro

## To subscribe contact Customer Services

### in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

## in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org



## **JOURNALS**

# The Journal of Agricultural Science

## **Senior Editor (Animal papers)**

Julian Wiseman, University of Nottingham, UK

Senior Editor (Crops & Soils papers)

Robert E. L. Naylor, University of Aberdeen, UK

The Journal of Agricultural Science publishes papers concerned with the advance of agriculture and the use of land resources throughout the world. It publishes original scientific work related to strategic and applied studies in all aspects of agricultural science, including: crop and animal physiology, modelling of crop and animal systems, the scientific underpinning of agronomy and husbandry, engineering solutions, decision support systems, land use, environmental impacts of agriculture and forestry, impacts of climate change, rural biodiversity, experimental design and statistical analysis, the application of new analytical and study methods (including molecular studies). The journal also publishes book reviews and letters.



## The Journal of Agricultural Science is available online at: http://journals.cambridge.org/ags

## To subscribe contact Customer Services

## Americas:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org

## Rest of world:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

## Submit your research online

http://mc.manuscriptcentral.com/jagrisci

For free online content visit: http://journals.cambridge.org/ags

## Free email alerts

Keep up-to-date with new material – sign up at

journals.cambridge.org/ags-alerts



## **C**AMBRIDGE

## **JOURNALS**

# Seed Science Research

The official journal of the International Society for Seed Science (ISSS)

### **Editor-in-Chief**

H.W.M. Hilhorst, Wageningen University, The Netherlands

Seed Science Research is an international journal publishing original and opinon papers, as well as reviews. The Journal deals primarily with the fundamentals of seed research with emphasis on the physiology, biochemistry, molecular biology and ecology of seed development, dormancy and germination.

The importance of seeds to propagation, food, biofuel and biodiversity is of increasing interest and therefore submissions on seed genetics, seed biotechnology, seed treatment and seedling establishment are especially encouraged if they are novel and 'seed driven'.

# For free online content visit: http://journals.cambridge.org/ssr\_sample

## Free email alerts

Keep up-to-date with new content

http://journals.cambridge.org/ssr-alerts



### Seed Science Research

is available online at: http://journals.cambridge.org/ssr

### To subscribe contact Customer Services

## Americas:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org

### Rest of world:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

### Price Information

is available at: http://journals.cambridge.org/ssr



# Experimental Agriculture

### INSTRUCTIONS TO CONTRIBUTORS

## **Electronic Submission of Manuscripts**

Contributions for consideration for publication should be submitted online at http://www.editorialmanager.com/eag

## **Editorial Policy**

With a focus on the tropical and sub-tropical regions of the world, Experimental Agriculture publishes the results of original research on field, plantation and herbage crops grown for food or feed, or for industrial purposes, and on farming systems, including livestock and people. It reports experimental work designed to explain how crops respond to the environment in biological and physical terms, and on the social and economic issues that may influence the uptake of the results of research by policy makers and farmers, including the role of institutions and partnerships in delivering impact. The journal also publishes accounts and critical discussions of new quantitative and qualitative methods in agricultural research, and of contemporary issues arising in countries where agricultural production needs to develop rapidly. There is a regular book review section and occasional, often invited. reviews of research. Most papers are published within six months from acceptance.

The minimum standards for a paper to be considered by the Editor and the referees are set out below:

- The title page, all headings and the references must conform to the style of *Experimental Agriculture*.
- Each table and figure must be cited in the text of the typescript.
- All figures to be supplied as separate TIFF or EPS files wherever possible.
- The statistical treatment of experimental data must conform to the instructions given in Riley, J. (2001). Presentation of statistical analyses. *Experimental Agriculture* 37: 115–123.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

© Cambridge University Press 2011

CAMBRIDGE UNIVERSITY PRESS The Edinburgh Building, Cambridge CB2 8RU, United Kingdom

- 32 Avenue of the Americas, New York, NY 10013–2473, USA
- 477 Williamstown Road, Port Melbourne, VIC 3207, Australia

Ruiz de Alarcón 13, 28014 Madrid, Spain Dock House, The Waterfront, Cape Town 8001, South Africa

Printed in the United Kingdom by the University Press, Cambridge

## Experimental Agriculture

## **CONTENTS**

<b>Torres, G., Vossenkemper, J., Raun, W. and Taylor, R.</b> Maize ( <i>Zea mays</i> ) leaf angle and emergence as affected by seed orientation at planting	579
<b>Hu, C. and Qi, YC.</b> Soil biological and biochemical quality of wheat-maize cropping system in long-term fertilizer experiments	593
Jalota, S. K., Vashisht, B. B., Kaur, H., Arora, V. K., Vashist, K. K. and Deol, K. S. Water and nitrogen-balance and -use efficiency in a rice ( <i>Oryza Sativa</i> )–wheat ( <i>Triticum Aestivum</i> ) cropping system as influenced by management interventions: field and simulation study	609
<b>Carr, M. K. V.</b> The water relations and irrigation requirements of oil palm ( <i>Elaeis guineensis</i> ): a review	629
Carr, M. K. V. and Lockwood, G. The water relations and irrigation requirements of cocoa ( <i>Theobroma cacao</i> L.): a review	653
<b>Erenstein, O., Samaddar, A., Teufel, N. and Blümmel, M.</b> The paradox of limited maize stover use in India's smallholder crop-livestock systems	677
<b>Safi, Z., Dossa, L. H. and Buerkert, A.</b> Economic analysis of cereal, vegetable and grape production systems in urban and peri-urban agriculture of Kabul, Afghanistan	705
Nedunchezhiyan, M., Jata, S. K., Ray, R. C. and Misra, R. S. Management of mealybug ( <i>Rhizoecus amorphophalli</i> ) in elephant foot yam ( <i>Amorphophallus paeoniifolius</i> )	717
Book reviews	729





