

CAMBRIDGE

JOURNALS

# Edinburgh Journal of Botany

An International Journal of Plant Systematics and Biodiversity

Published on behalf of the Royal Botanic Garden Edinburgh

## Senior Editor

David J. Middleton, Royal Botanic Garden, Edinburgh, UK

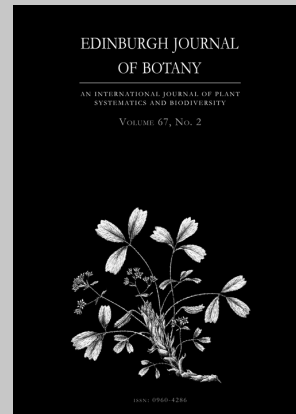
*Edinburgh Journal of Botany* is an international journal of plant systematics and related aspects of bio-diversity, conservation science and phytogeography. It covers all groups of plants and fungi and publishes contributions on all geographic areas, although it is particularly valued for its articles on South East and South West Asian, Sino-Himalayan and Brazilian biodiversity. Papers linking traditional and modern taxonomic techniques are especially encouraged, and commissioned book reviews and review articles are also included. There is an international editorial board of wide-ranging expertise delivering a high quality, fully illustrated journal.

## Price information

is available at: <http://journals.cambridge.org/ejb>

## Free email alerts

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



*Edinburgh Journal of Botany*  
is available online at:  
<http://journals.cambridge.org/ejb>

## To subscribe contact Customer Services

### in Cambridge:

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

### in New York:

Phone +1 (845) 353 7500  
Fax +1 (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

For free online content visit:  
<http://journals.cambridge.org/ejb>



CAMBRIDGE  
UNIVERSITY PRESS

## Instructions for Contributors

*Zygote* is an international journal dedicated to the rapid publication of original research in early embryology. It covers interdisciplinary studies on gametogenesis through fertilization to gastrulation in animals and humans. The scope has been expanded to include clinical papers, molecular and developmental genetics. While the editors will favour work describing fundamental processes in the cellular and molecular mechanisms of animal development, and, in particular, the identification of unifying principles in biology, new technologies, review articles, debates and letters will become a prominent feature.

Subjects covered include gametogenesis, sperm–oocyte interaction, gamete and embryo physiology, cell polarity, cell–cell interactions, nuclear transfer, haploidization, molecular and developmental genetics, in-vitro fertilization, stem cell and cryoconservation technologies.

To submit a manuscript, please email a complete copy, including figures and illustrations to:

- Brian Dale, Editor-in-Chief, *Zygote*, Centre for Reproductive Biology, Italy.  
Email: [brian.dale@virgilio.it](mailto:brian.dale@virgilio.it) or to
- Jacques Cohen, North American Editor, *Zygote*, Tyho-Galileo Research Laboratories, 3 Regent Street, Suite 301, Livingston, NJ 07039, USA  
Email: [jc@embryos.net](mailto:jc@embryos.net) or to
- Professor Norio Suzuki, Asian Pacific Editor, *Zygote*, Department of Biological Science, Hokkaido University, Japan.  
Email: [medaka-s@kdp.biglobe.ne.jp](mailto:medaka-s@kdp.biglobe.ne.jp)

Submission of a paper will be taken to imply that it is unpublished and it is not being considered for publication elsewhere. Authors of articles published in the journal assign copyright to Cambridge University Press (with certain rights reserved) and you will receive a copyright assignment form for signature on acceptance of your paper.

There is no formal restriction on length; however, original articles and reviews of less than 15000 words are likely to appear sooner than longer ones. Short communications should not exceed 1500 words and News and Views Commentaries 500 words.

### Preparation of manuscripts

Manuscripts should be organised as follows: Title page (with full names and addresses of all authors, a running headline of up to 35 characters, and a contact address with telephone number and email address), an Abstract

of not more than 250 words followed by 5 Keywords, Introduction, Materials and Methods, Results, Discussion (combined Results and Discussion may be used for short papers), Acknowledgements, References, Endnotes, Tables and Figure Legends.

Manuscripts should be prepared using SI units

### Figures

Figures should be numbered consecutively as they appear in the text. Any indication of features of special interest should also be included. Figures must be supplied electronically. They must be saved at final publication size and supplied in the following file formats: halftone figures (black & white, and colour) as TIF files at 300 dpi; black & white line figures as TIF or EPS files at 800 – 1200 dpi. When relevant, photographs should be submitted with proposed reduction or magnification indicated, when relevant, by a scale line on or beside, the illustration. The places for insertion into the text should be indicated in the text as 'Fig. 1' etc. Legends for all illustrations should be typed together, separately from the main text. A charge of £500 per figure will be made for colour photograph reproduction and printing.

### Tables

Tables with concise headings should be placed at the end of the paper. Each table must have a text reference, in the form 'Table 1' etc.

### References

References should be cited in the text as Conklin (1905) showed or as shown (Conklin, 1905). For papers with three or more authors use et al. A full list of references in alphabetical order should be given at the end of the text: surname of author and initials; year of publication (in parentheses); title of paper; journal or book name (the former being abbreviated in accordance with the World List of Scientific Periodicals); volume number; first and last page of the reference. For books and conference proceedings, place of publication and publisher (and editor(s) if appropriate) should be included.

### Proofs

Proofs will be sent to the author for checking. Typographical or factual errors only may be changed at proof stage. The publisher reserves the right to charge authors for correction of non-typographical errors.

### Offprints

A PDF offprint of each article will be supplied free to each first named author. Paper offprints may be purchased from the publisher if ordered at proof stage.

### 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  
C/Orense, 4, planta 13, 28020 Madrid, Spain

Lower Ground Floor, Nautica Building, The Water Club, Beach Road, Granger Bay, 8005 Cape Town, South Africa

Printed in the United Kingdom at the University Press, Cambridge.

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](http://www.fsc.org) for information.

# ZYGOTE

The Biology of Gametes and Early Embryos

## CONTENTS

### ORIGINAL ARTICLES

- Insulin–transferrin–selenium (ITS) improves maturation of porcine oocytes *in vitro***  
Hu, J., Ma, X., Bao, J. C., Li, W., Cheng, D., Gao, Z., Lei, A., Yang, C. & Wang, H. 191
- Blastocysts derived from adult fibroblasts of a rhesus monkey (*Macaca mulatta*) using interspecies somatic cell nuclear transfer**  
Kwon, D. K., Kang, J. T., Park, S. J., Gomez, M. N. L., Kim, S. J., Atikuzzaman, M., Koo, O. J., Jang, G. & Lee, B. C. 199
- Expression of follicle-stimulating hormone receptor (FSHR) in goat ovarian follicles and the impact of sequential culture medium on *in vitro* development of caprine preantral follicles**  
Saraiva, M. V. A., Celestino, J. J. H., Araújo, V. R., Chaves, R. N., Almeida, A. P., Lima-Verde, I. B., Duarte, A. B. G., Silva, G. M., Martins, F. S., Bruno, J. B., Matos, M. H. T., Campello, C. C., Silva, J. R. V. & Figueiredo, J. R. 205
- Follicular interactions affect the *in vitro* development of isolated goat preantral follicles**  
Duarte, A. B. G., Chaves, R. N., Araújo, V. R., Celestino, J. J., Silva, G. M., Lopes, C. A. P., Tavares, L. M. T., Campello, C. C. & de Figueiredo, J. R. 215
- Embryotoxicity and fetotoxicity following intraperitoneal administrations of hexavalent chromium to pregnant rats**  
Marouani, N., Tebourbi, O., Mokni, M., Yacoubi, M. T., Sakly, M., Benkhalfa, M. & Rhouma, K. B. 229
- Effect of trichostatin A on transfected donor cells and subsequent development of porcine cloned embryos**  
Bo, F., Di, L., Qing-chang, F., Liang, R., Hong, M., Liang, W., Zhen-hua, G. & Zhong-qiu, L. 237
- Testicular structure and spermatogenesis of Amazonian freshwater cururu stingray *Potamotrygon cf. hystrix***  
Zaiden, S. F., Brinn, R. P., Marcon, J. L. & Urbinati, E. C. 245
- Effect of cryopreservation and *in vitro* culture of bovine fibroblasts on histone acetylation levels and *in vitro* development of hand-made cloned embryos**  
Chacón, L., Gómez, M. C., Jenkins, J. A., Leibo, S. P., Wirtu, G., Dresser, B. L. & Pope, C. E. 255
- Sperm head binding to epithelium of the oviduct isthmus is not an essential preliminary to mammalian fertilization - review**  
Hunter, R. H. F. 265
- Number of blastomeres and distribution of microvilli in cloned mouse embryos during compaction**  
Li, C.-B., Wang, Z.-D., Zheng, Z., Hu, L.-L., Zhong, S.-Q. & Lei, L. 271
- Expression of enzymes involved in the synthesis of prostaglandin E<sub>2</sub> in bovine *in vitro*-produced embryos**  
Saint-Dizier, M., Grimard, B., Guyader-Joly, C., Humblot, P. & Ponter, A. A. 277

### CORRIGENDUM

- Expression of enzymes involved in the synthesis of prostaglandin E<sub>2</sub> in bovine *in vitro*-produced embryos – CORRIGENDUM**  
Saint-Dizier, M., Grimard, B., Guyader-Joly, C., Humblot, P. & Ponter, A. A. 285