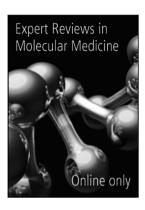
## **C**AMBRIDGE

## **JOURNALS**



# Expert Reviews in Molecular Medicine

## Expert Reviews in Molecular Medicine

is available online at journals.cambridge.org/erm

## 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 (845) 353 7500 Fax (845) 353 4141 Email subscriptions\_newyork@cambridge.org

## **Editors**

Andrea Bowden, Centre for Applied Research in Educational Technologies, Cambridge, UK Carolyn Elliss, Centre for Applied Research in Educational Technologies, Cambridge, UK

Expert Reviews in Molecular Medicine is an exciting online journal featuring high-quality reviews of the latest developments in this fast-growing field. Coverage includes gene therapy, immunotherapeutics, drug design, vaccines, genetic testing, pathogenesis, epidemiology, genomics, diagnostics and techniques.

For further information, please visit: expertreviews.org

Price information is available at journals.cambridge.org/erm

## Free email alerts

Keep up-to-date with new material – sign up at www.journals.cambridge.org/register

For a free online sample visit journals.cambridge.org/erm



## CAMBRIDGE

## **JOURNALS**



## Genetics Research

Formerly published as Genetical Research

## **Genetics Research**

is available online at journals.cambridge.org/grh

## 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 (845) 353 7500 Fax (845) 353 4141 Email subscriptions\_newyork@cambridge.org

## Senior Executive Editor

D. J. Finnegan, University of Edinburgh, UK *Executive Editors* 

W. G. Hill, University of Edinburgh, UK

T. F. C. Mackay, North Carolina State University, USA Shizhong Xu, University of California, USA

Genetics Research is a key forum for original research on all aspects of genetics. Building on the success and history of its previous incarnation, Genetical Research, the journal has a publishing remit that provides comprehensive coverage of subjects vital to the field.

The breadth and quality of papers, reviews and book reviews make the journal invaluable to geneticists, evolutionary biologists, plant and animal breeders and molecular biologists.

Information is available at journals.cambridge.org/grh

## Free email alerts

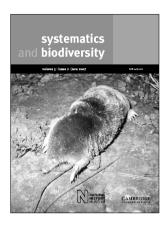
Keep up-to-date with new material – sign up at journals.cambridge.org/register

**For a free online sample visit** journals.cambridge.org/grh



## **C**AMBRIDGE

## **JOURNALS**



## Systematics and Biodiversity

Published for The Natural History Museum

## Systematics and Biodiversity

is available online at journals.cambridge.org/sys

## 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 (845) 353 7500 Fax (845) 353 4141 Email subscriptions\_newyork@cambridge.org

## Editor-In-Chief

Elliot Shubert, The Natural History Museum, UK

Systematics and Biodiversity is an international life science journal devoted to whole-organism biology, especially systematics and taxonomic biodiversity. It emphasizes the importance and multi-disciplinary significance of systematics. It records the diversity of organisms through descriptive taxonomic papers. Coverage also includes relevant theory and methodology, and conservation biology.

Price information is available at journals.cambridge.org/sys

## Free email alerts

Keep up-to-date with new material – sign up at journals.cambridge.org/register

For a free online sample visit journals.cambridge.org/sys



## **Instructions for Contributors**

**Zygote** will publish original papers on all aspects of early development from gametogenesis to gastrulation. Studies on plants, invertebrates, lower vertebrates, mammals and humans at the molecular and cellular levels will be accepted. Topics include gametogenesis, fertilisation, sperm-egg interaction, activation of gametes, polarity in oocytes and zygotes, cell cycle control, cleavage, cell-cell interactions, and the generation of primary cell lineages. Review articles, short communications and News and Views Commentaries are also welcomed.

To submit a manuscript, please send electronic files for text and figures (separate files for each figure) as email attachments, either to: Brian Dale, Editor-in-Chief, Zygote, Centre for Reproductive Biology, Clinica Villa del Sole, Via Manzoni 15, Naples 80123, Italy. Telephone: + 39 081 641 689, Fax: + 39 081 5479 251, Email: 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 or to: Norio Suzuki, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo 060-0810, Japan. Telephone: +81 11 706 4908, Fax: +81 11 706 4461, Email: norio-s @sci. hokudai. ac.jp. Alternatively send three complete hard copies of text and figures to one of the Editors. 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 copy-right 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 and fax numbers), 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.

Type double-spaced throughout on one side only and number all pages consecutively. When an article has been accepted for publication, the author is strongly encouraged to send a copy of the final version on computer disk (Apple Macintosh or IBM compatible PC) together with the hard copy typescript, giving details of the wordprocessing soft-

## 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 at the University Press, Cambridge.

ware used (Microsoft Word, Word or Word Perfect). However, the publisher reserves the right to typeset material by conventional means if an author's disk proves unsatisfactory. Disks will not be returned.

Manuscripts should be prepared using SI units

## **Figures**

Figures should be numbered consecutively as they appear in the text. Mark each figure with the first author's name and figure number on the reverse, and indicate its orientation. Any indication of features of special interest should also be included. Authors should submit three copies of each illustration. Figures should be drawn or produced by computer to about twice the final size. Wherever possible they will be reproduced with the author's original lettering. 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, and in the margin of the typescript for insertion. 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 typed on separate sheets and numbered consecutively. Each table must have a text reference, in the form 'Table 1' etc. Indicate where tables are to be placed by means of a note in the margin.

## 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 Period icals); 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**

25 offprints of each article will be supplied free to each first named author. Extra offprints may be purchased from the publisher if ordered at proof stage.

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.



## The Biology of Gametes and Early Embryos

Volume 17 Issue 3 August 2009

## **Contents**

The effects of brain-derived neurotrophic factor and metformin on <i>in vitro</i> developmental competence of bovine oocytes  So Gun Hong, Goo Jang, Hyun Ju Oh, Ok Jae Koo, Jung Eun Park, Hee Jung Park,  Sung Keun Kang and Byeong Chun Lee	187
Development and spindle formation in rat somatic cell nuclear transfer (SCNT) embryos in vitro using porcine recipient oocytes  Atsushi Sugawara, Satoshi Sugimura, Yumi Hoshino and Eimei Sato	195
Effect of recipient breed on delivery rate of cloned miniature pig Ok Jae Koo, Hee Jung Park, Dae Kee Kwon, Jung Taek Kang, Goo Jang and Byeong Chun Lee	203
Enhancement of histone acetylation by trichostatin A during <i>in vitro</i> fertilization of bovine oocytes affects cell number of the inner cell mass of the resulting blastocysts Shuntaro Ikeda, Atsuhiro Tatemizo, Daisaku Iwamoto, Shunji Taniguchi, Yoichiro Hoshino, Tomoko Amano, Kazuya Matsumoto, Yoshihiko Hosoi, Akira Iritani and Kazuhiro Saeki	209
A modified cryoloop vitrification protocol in the cryopreservation of mature mouse oocytese Zengyan Wang, Zhengyi Sun, Ying Chen and Fangfang He	217
In vitro fertilization efficiency in coral Acropora digitifera Akira Iguchi, Masaya Morita, Yuichi Nakajima, Akira Nishikawa and David Miller	225
Establishment of rat embryonic stem-like cells from the morula using a combination of feeder layers  Chiaki Sano, Asako Matsumoto, Eimei Sato, Emiko Fukui, Midori Yoshizawa  and Hiromichi Matsumoto	229
Assessment of three generations of mice derived by ICSI using freeze-dried sperm Ming-Wen Li, Brandon J. Willis, Stephen M. Griffey, Jimmy L. Spearow and K.C. Kent Lloyd	239
Subcellular localization of calcium and Ca-ATPase activity during nuclear maturation in Bufo arenarum oocytes Inés Ramos, Susana B. Cisint, Claudia A. Crespo, Marcela F. Medina and Silvia N. Fernández	253
Modifications of chemically induced-enucleated nuclear transfer technique by reverse-order nuclear transfer in mouse  Yongsheng Wang, Jun Liu, Shuang Tang, Zhixing An, Zhilin Guo, Xiangbin Ding, Fengjun Liu, Zelei Cao, Tuo Zhang and Yong Zhang	261
Apoptotic processes and DNA cytosine methylation in mouse embryos arrested at the 2-cell stage  Dušan Fabian, Alexandra Bukovská, Štefan Juhás and Juraj Koppel	269

For further information about this journal please go to the journal website at: journals.cambridge.org/zyg



