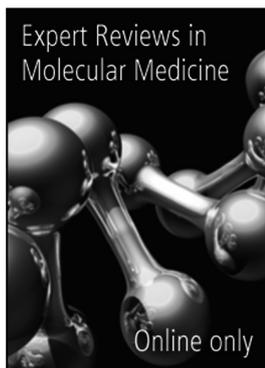


CAMBRIDGE

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
UNIVERSITY PRESS**

CAMBRIDGE

JOURNALS



Fetal and Maternal Medicine Review

Fetal and Maternal Medicine Review

is available online at:
journals.cambridge.org/fmr

**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

Stephen Robson, Fetal Medicine Unit, Royal Victoria Infirmary,
Newcastle upon Tyne, UK

Fetal and Maternal Medicine Review publishes high quality reviews drawn from all relevant disciplines. Rapid publication of authors currently active in research ensures this journal has immediate relevance to contemporary clinical practice. It is essential reading for all engaged in the care of pregnant women and neonates.

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

Free email alerts

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

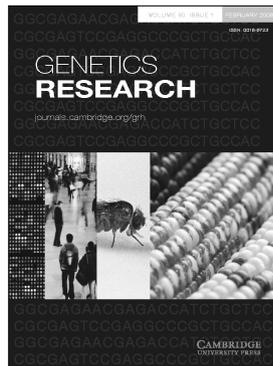
For a free online sample visit
journals.cambridge.org/fmr



CAMBRIDGE
UNIVERSITY PRESS

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

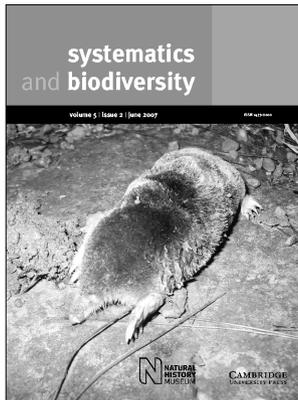
For a free online sample visit
journals.cambridge.org/grh



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

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



CAMBRIDGE
UNIVERSITY PRESS

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*, Tycho-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-

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 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

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.

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 by Latimer Trend, Plymouth, UK.

Zygote

The Biology of Gametes and Early Embryos

Volume 17 Issue 1 February 2009

Contents

- The pollen metamorphosis phenomenon in *Panax ginseng*, *Aralia elata* and *Oplopanax elatus*; an addition to discussion concerning the *Panax* affinity in Araliaceae
Arkadiy A. Reunov, Galina D. Reunova, Yana N. Alexandrova, Tamara I. Muzarok and Yuriy N. Zhuravlev 1
- Attempts at *in vitro* fertilization and culture of *in vitro* matured oocytes in sei (*Balaenoptera borealis*) and Bryde's (*B. edeni*) whales
M.M.U. Bhuiyan, Y. Suzuki, H. Watanabe, K. Matsuoka, Y. Fujise, H. Ishikawa, S. Ohsumi and Y. Fukui 19
- A combined treatment with ethanol and 6-dimethylaminopurine is effective for the activation and further embryonic development of oocytes from Sprague-Dawley and Wistar rats
Daisuke Sano, Yuki Yamamoto, Tomo Samejima, Yasunari Seita, Tomo Inomata, Junya Ito and Naomi Kashiwazaki 29
- Cell cycle synchronization of canine ear fibroblasts for somatic cell nuclear transfer
Ok Jae Koo, Mohammad Shamim Hossein, So Gun Hong, Jose A. Martinez-Conejero and Byeong Chun Lee 37
- Cryogenic preservation of embryos of *Prochilodus lineatus* (Valenciennes, 1836) (Characiforme; Prochilodontidae)
Alexandre Ninhaus-Silveira, Fausto Foresti, Alexandre de Azevedo, Cláudio Ângelo Agostinho and Rosicleire Veríssimo-Silveira 45
- Effect of vitrification technique and assisted hatching on rabbit embryo developmental rate
M. Popelková, Z. Turanová, L. Koprdoová, A. Ostró, S. Toporcerová, A.V. Makarevich and P. Chrenek 57
- The use of R-roscovitine to fit the 'time frame' on *in vitro* porcine embryo production by intracytoplasmic sperm injection
J. Alfonso, E. García-Rosello, E. García-Mengual, I. Salvador and M.A. Silvestre 63
- OPS vitrification of mouse immature oocytes before or after meiosis: the effect on cumulus cells maintenance and subsequent development
Lun Suo, Guang-Bin Zhou, Qing-Gang Meng, Chang-Liang Yan, Zhi-Qiang Fan, Xue-Ming Zhao, Xiang-Wei Fu, Yan-Ping Wang, Qing-Jing Zhang and Shi-En Zhu 71
- Cumulus cell features and nuclear chromatin configuration of *in vitro* matured canine COCs and the influence of *in vivo* serum progesterone concentrations of ovary donors
B.A. Rodrigues, A.E.F. Silva, P. Rodriguez, L.F. Cavalcante and J.L. Rodrigues 79

Cambridge Journals Online

For further information about this journal please go to the journal website at:

journals.cambridge.org/zyg

CAMBRIDGE
UNIVERSITY PRESS