

## Editorial Board

**Sir Brian Heap, Editor**

St Edmund's College, University of Cambridge

**Julie Ahringer**

CR UK Gurdon Institute, University of Cambridge

**David Attwell**

Department of Physiology, University College London

**Zhu Chen**

Vice-President, Chinese Academy of Sciences

**Richard Gardner**

Department of Zoology, University of Oxford

**Peter Goodfellow**

GlaxoSmithKline, Stevenage, UK

**John Gray**

Department of Plant Sciences, University of Cambridge

**Keith Gull**

School of Pathology, University of Oxford

**Atsushi Iriki**

RIKEN Brain Science Institute, Japan

**Fotis Kafatos**

Division of Cell and Molecular Biology, Imperial College London

**Trevor Lamb**

John Curtin School of Medical Research, Australian National University

**David MacLennan**

Department of Medical Research, University of Toronto

**Elliot Meyerowitz**

Division of Biology, California Institute of Technology

**Martin Nowak**

Center for Mathematical Biology, Harvard University

**Anthony Pawson**

Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto

**Obaid Siddiqi**

National Centre for Biological Sciences, Bangalore

**Monkombu Swaminathan**

MS Swaminathan Research Foundation, Chennai

**Marc Tessier-Lavigne**

Center for Brain Development, Howard Hughes Medical Institute

**Sir Crispin Tickell**

Chancellor, University of Kent at Canterbury

**Lap-Chee Tsui**

Vice-Chancellor, University of Hong Kong

**Sir David Weatherall**

Institute of Molecular Medicine, University of Oxford

**Rudiger Wehner**

Institute of Zoology, University of Zürich

**Bob Williamson**

Faculty of Medicine, University of Melbourne

**Publishing Editor: James Joseph**

(tel: +44 (0)20 7451 2631; fax: +44 (0)20 7976 1837;

james.joseph@royalsoc.ac.uk)

**Production Editor: Jessica Mnatzaganian**

6–9 Carlton House Terrace, London SW1Y 5AG, UK

[www.pubs.royalsoc.ac.uk](http://www.pubs.royalsoc.ac.uk)

**AIMS AND SCOPE**

Each issue of *Phil. Trans. R. Soc. B* is devoted to a specific area of the biological sciences. This area will define a research frontier that is advancing rapidly, often bridging traditional disciplines. *Phil. Trans. R. Soc. B* is essential reading for scientists working across the biological sciences. In particular, the journal is focused on the following broad topics: **systems biology, environment, molecules of life, cognitive systems, health and welfare and regional science**. As well as theme issues, the journal publishes papers from the Royal Society's biological discussion meetings. For information on submitting a proposal for a theme issue, please consult the journals website at [www.pubs.royalsoc.ac.uk/philtransb](http://www.pubs.royalsoc.ac.uk/philtransb).

**Reviews.** The journal also publishes reviews in the broad areas of research listed above. Review articles will often be commissioned, but the Editor is happy to consider suggestions / proposals for unsolicited review articles. Please submit an abstract and a covering letter to the Editorial Office for approval for consideration. 10,000 words is usually a maximum length for reviews.

Copyright © 2006 The Royal Society

Except as otherwise permitted under the Copyright, Designs and Patents Act, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any other means, with the prior permission in writing of the publisher, or in the case of reprographic reproduction, in accordance with the terms of a licence issued by the Copyright Licensing Agency. In particular, the Society permits the making of a single photocopy of an article from this issue (under Sections 29 and 38 of this Act) for an individual for the purposes of research or private study.

**SUBSCRIPTIONS**

In 2007 *Phil. Trans. R. Soc. B* (ISSN 0962-8436) will be published monthly. Full details of subscriptions may be obtained on request from the Subscription Sales Department, The Royal Society, 6–9 Carlton House Terrace, London SW1Y 5AG. Tel +44 (0)20 7451 2646; fax +44 (0)20 7976 1837; email: [sales@royalsoc.ac.uk](mailto:sales@royalsoc.ac.uk). The Royal Society is Registered Charity No 207043

Subscription prices 2007 calendar year	Europe	USA & Canada	All other countries
printed version plus electronic access	£1435/US\$2650	£1515/US\$2800	£1550/US\$2870

Typeset in Europe by the Alden Group, Oxford. Printed by Latimer Trend, Plymouth.

This paper meets the requirements of ISO 9706:1994(E) and ANSI/NISO Z39.48-1992 (Permanence of Paper) effective with volume 335, issue 1273, 1992. *Philosophical Transactions of the Royal Society B* (ISSN NO: 0962-8436) is published monthly by the Royal Society and distributed in the USA by DSW, 75 Aberdeen Road, Emigsville PA 17318-0437. Periodicals postage paid at Emigsville PA. POSTMASTER: send address changes to *Philosophical Transactions of the Royal Society B*, c/o PO Box 437 Emigsville PA 17318-0437.