

### Editorial Board

#### Neuroscience and Cognition

Professor David Attwell  
Professor Atsushi Iriki  
Professor Trevor Lamb  
Professor Obaid Siddiqi  
Professor Marc Tessier-Lavigne  
Professor Rüdiger Wehner

#### Organismal, environmental and evolutionary biology

Sir Brian Heap  
Professor Georgina Mace  
Professor Martin Nowak  
Professor Peter Raven  
Professor Monkombu Swaminathan  
Sir Crispin Tickell

#### Molecular, cellular and developmental biology

Professor Julie Ahringer  
Professor Richard Gardner  
Professor John Gray  
Professor Keith Gull  
Professor Fotis Kafatos  
Professor Elliot Meyerowitz  
Professor Anthony Pawson

#### Health and Disease

Professor Zhu Chen  
Professor Peter Goodfellow  
Professor Lap-Chee Tsui  
Sir David Weatherall  
Professor Bob Williamson

#### Publishing Editor: James Joseph

(tel: +44 (0)20 7451 2631; fax: +44 (0)20 7976 1837;  
james.joseph@royalsoc.ac.uk)

#### Production Editors: Jessica Mnatzaganian and Janine Glover

6–9 Carlton House Terrace, London SW1Y 5AG, UK  
publishing.royalsoc.ac.uk

ISBN: 978-0-85403-654-7

Copyright © 2007 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 2008 *Phil. Trans. R. Soc. B* (ISSN 0962-8436) will be published twice a month. Full details of subscriptions and single issue sales may be obtained either by contacting our journal fulfilment agent, Portland Customer Services, Commerce Way, Colchester CO2 8HP; tel: +44 (0)1206 796351; fax: +44 (0)1206 799331; email: sales@portland-services.com or by visiting our website at publishing.royalsoc.ac.uk/subscribers. The Royal Society is a Registered Charity No. 207043.

#### 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 four cluster areas: **neuroscience and cognition; organismal and evolutionary biology; molecular, cellular and developmental biology; and health and disease**. 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, consult the journal's website at [publishing.royalsoc.ac.uk/philtransb](http://publishing.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. 6,000 words is usually a maximum length for reviews.

Subscription prices 2008 calendar year	Europe	USA & Canada	All other countries
printed version plus electronic access	£1909/US\$3532 /€2863	£2015/US\$3728	£2062/US\$3815

Typeset in India by the Alden Group, Oxfordshire. 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: 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.