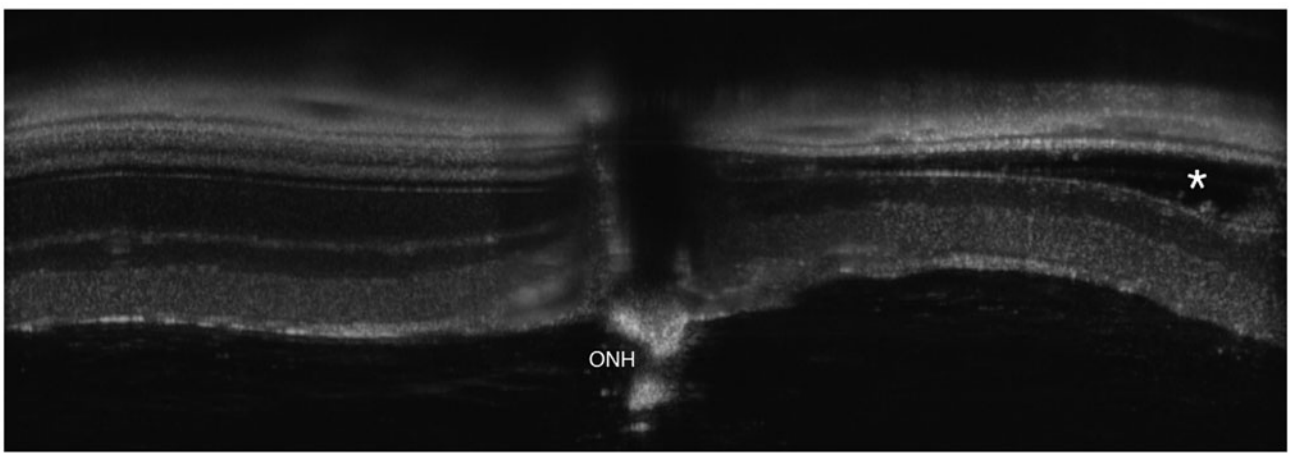
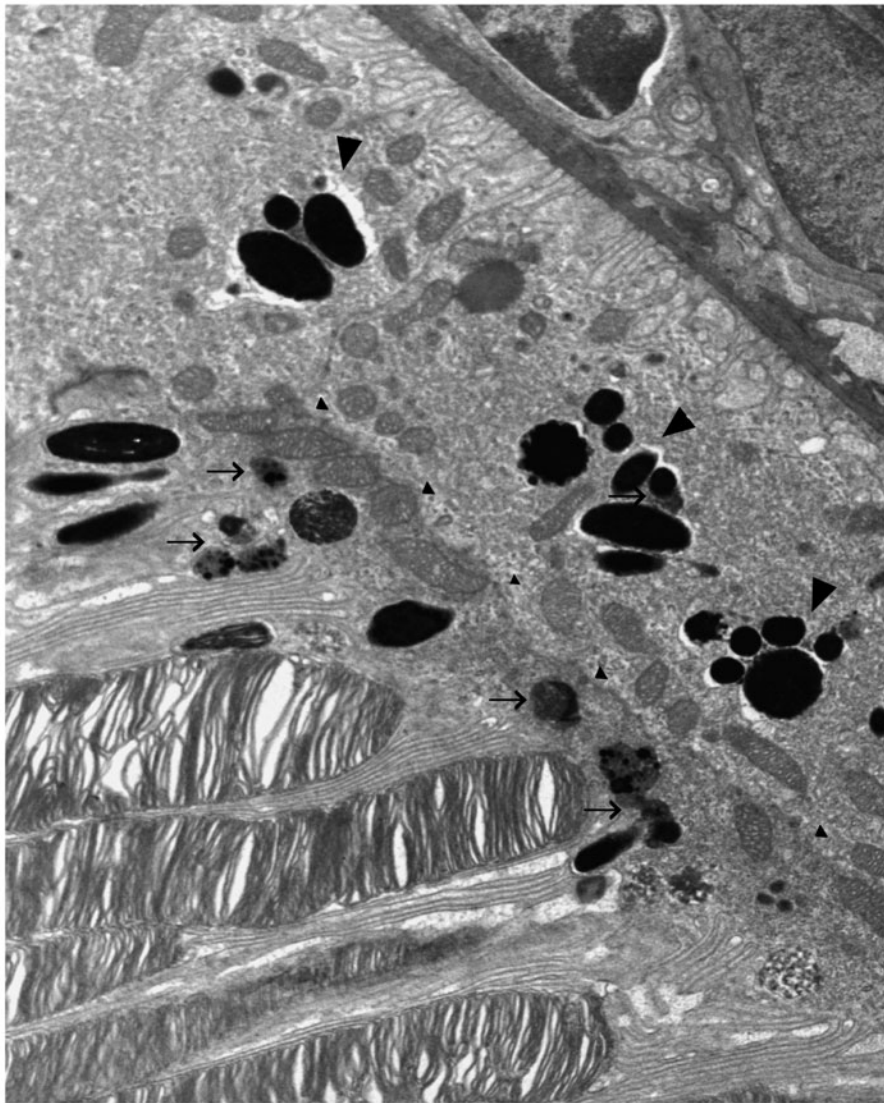


**vns**



## EDITOR

BENJAMIN E. REESE

*University of California, Santa Barbara*

## ASSOCIATE EDITORS

Lynne Kiorpes, *Center for Neural Science,  
New York University, New York, NY 10003.*

Peter D. Lukasiewicz, *Department of Ophthalmology,  
Washington University School of Medicine, Saint Louis, MO 63110.*

Paul R. Martin, *Sydney Eye Hospital & Department of Ophthalmology  
University of Sydney, Sydney, NSW 2001 Australia.*

David S. Williams, *Jules Stein Eye Institute, UCLA School of Medicine,  
Los Angeles, CA 90095.*

## EDITORIAL BOARD

Alessandra Angelucci, *University of Utah*

Jeannie Chen, *University of Southern California*

Shaun P. Collin, *University of Western Australia*

Jeffrey S. Diamond, *National Institute for Neurological Disorders and Stroke*

Ronald Douglas, *City University, London*

Robert M. Duvoisin, *Oregon Health and Science University*

Ione Fine, *University of Washington*

John G. Flannery, *University of California, Berkeley*

Karl Gegenfurtner, *Justus-Liebig-Universität Giessen*

Ulrike Grünert, *University of Sydney, Australia*

Silke Haverkamp, *Max Planck Institute for Brain Research*

Jonathan C. Horton, *University of California, San Francisco*

Gerald H. Jacobs, *University of California, Santa Barbara*

Maarten Kamermans, *Netherlands Institute for Neuroscience*

Michael S. Landy, *New York University*

Janis Lem, *Tufts University*

David W. Marshak, *University of Texas at Houston*

Maureen A. McCall, *University of Louisville*

Janine Mendola, *McGill University*

Stephen L. Mills, *University of Texas at Houston*

Kathryn M. Murphy, *McMaster University*

Maureen Neitz, *University of Washington*

Marcello G. P. Rosa, *Monash University*

Dario Ringach, *University of California, Los Angeles*

Evelyne Sernagor, *Newcastle University*

Robert G. Smith, *University of Pennsylvania*

Rowland Taylor, *Oregon Health and Science University*

Wallace B. Thoreson, *University of Nebraska*

Douglas R. Wong-Wylie, *University of Alberta*

Xian-Jie Yang, *University of California, Los Angeles*

## FORMER EDITOR (2002–2007)

LAURA J. FRISHMAN, *University of Houston*

## FORMER EDITOR (1996–2001)

PETER D. SPEAR, *University of Colorado at Boulder*

## FORMER EDITOR (1992–1996)

JAMES T. MCILWAIN, *Brown University*

## FOUNDING EDITOR (1988–1991)

KATHERINE V. FITE, *University of Massachusetts, Amherst*

*Visual Neuroscience* (ISSN 0952-5238) publishes experimental and theoretical studies concerning the neural mechanisms of vision. Contributions may deal with molecular, cellular, and systems-level processes in both vertebrate and invertebrate species. Studies based exclusively on clinical, psychophysical, or behavioral data will be considered if they are related to neural mechanisms. Appropriate research areas include: photoreception and transduction, subcortical visual pathways, developmental processes, visually guided behavior, retinal structure and function, cortical mechanisms, oculomotor control, and substrates of perception.

*Visual Neuroscience* features full-length research papers, short communications, and review articles that critically examine topics related to the journal's principal focus.

*Visual Neuroscience* is indexed in Current Contents/Life Sciences; Science Citation Index; MEDLINE; Ocular Resources Review; Neuroscience Citation Index; and in the SCISEARCH and ISI/BIOMED databases.

**Editorial Office:** Benjamin E. Reese, Editor, *Visual Neuroscience*, University of California at Santa Barbara, Neuroscience Research Institute and Department of Psychology, Santa Barbara, CA 93106-5060, USA. Telephone/Fax: (805) 893-2091. E-mail: vns@lifesci.ucsb.edu

**Publishing, Subscription and Advertising Offices:** Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473, USA; and (outside the US and Canada) Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, England.

**Published Bimonthly.** Annual rates for institutions print and electronic: US \$1618.00 in the US, Canada, and Mexico; UK £956.00 + VAT elsewhere. Institutions electronic only: US \$1338.00 in the US, Canada, and Mexico; UK £794.00 + VAT elsewhere. Institutions print only: \$1498.00 in the US, Canada, Mexico; UK £886.00 + VAT elsewhere. Individuals print plus electronic: US \$381.00 in the US, Canada, and Mexico; UK £219.00 + VAT elsewhere. Individuals print only: US \$350.00 in the US, Canada, and Mexico; UK £207.00 + VAT elsewhere. Students: US \$136.00 in the US, Canada, and Mexico; UK £81.00 + VAT elsewhere. For members of the Society for Neuroscience, Association for Research in Vision, and Ophthalmology, European Society for Neuroscience: US \$170.00 in the US, Canada, Mexico; UK £110.00 + VAT elsewhere. Prices include postage and handling.

*Visual Neuroscience* is part of the **Cambridge Journals Online (CJO)** service. Access to online tables of contents and article abstracts is available to all researchers at no additional cost. Access to full text articles online is currently included with the cost of print and electronic subscription. Subscription must be activated: for detail see <http://www.journals.cambridge.org>.

© Cambridge University Press 2012. All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopy, or otherwise, without permission in writing from Cambridge University Press. For further information see <http://us.cambridge.org/information/rights/> or <http://www.cambridge.org/uk/information/rights/>. Photocopying information for users in the U.S.A.: The Item-Fee Code for this publication (0952-5238/12 \$25.00) indicates that copying for internal or personal use beyond that permitted by Sec. 107 or 108 of the U.S. Copyright Law is authorized for users duly registered with the Copyright Clearance Center (CCC) provided that the appropriate remittance of \$25.00 per article is paid directly to: CCC, 222 Rosewood Drive, Danvers, MA 01923. Specific written permission must be obtained for all other copying.

Printed in the United States of America.

Periodicals postage paid at New York, NY, and additional mailing offices. Postmaster: send address changes in the US and Canada to: *Visual Neuroscience*, Journals Department, Cambridge University Press, 100 Brook Hill Drive, West Nyack, NY 10994-2133.

**About the Cover.** Engelhardt and colleagues report, in the present issue, on the structural and functional consequences of sub-retinal injection of RPE cells using spectral domain optical coherence tomography, electroretinography, histology and electron microscopy.