

# JNeurosci

THE JOURNAL OF NEUROSCIENCE

## EDITOR-IN-CHIEF

Marina Picciotto

## SENIOR EDITORS

Mark Bothwell  
Valina Dawson  
Greg DeAngelis  
Nancy Ip  
Jeanne Nerbonne  
David Perkel  
Matthew Rushworth  
Yavin Shaham

## REVIEWING EDITORS

Jose Manuel Alonso  
Christopher I. Baker  
Tracy L. Bale  
James Bisley  
Jonathan Demb  
Alyson Fournier  
Fabrizio Gabbiani  
Vittorio Gallo  
Jay A. Gottfried  
Ege T. Kavalali  
Christoph Kayser  
Paul J. Kenny  
Eric Klann  
James Knierim  
Daeyeol Lee  
Jon D. Levine  
Joseph LoTurco  
Mark P. Mattson  
BethAnn McLaughlin  
Diane Merry  
Anna Christina Nobre  
Sam Pleasure  
Dan H. Sanes  
Helen E. Scharfman  
Geoffrey Schoenbaum  
Ruth S. Slack  
Jane M. Sullivan  
Ivan Toni  
Catherine S. Woolley

## ASSOCIATE EDITORS

Bruno Averbeck  
Bernard Balleine  
Tallie Z. Baram  
Anne Baron-Van Evercooren  
Diana Bautista  
Mark Baxter  
Michael Beauchamp  
Heinz Beck  
H. Tad Blair  
Paul Buckmaster  
Heather Cameron  
Matteo Carandini  
Monica Carson  
Manuel Castro-Alamancos  
Jonah Chan  
Joseph F. Cheer  
Jean-François Cloutier  
Leonardo Cohen  
Laura Colgin  
Anis Contractor  
Bevil Conway  
J. Douglas Crawford  
William Dauer  
Lila Davachi  
Liset M. de la Prida  
Floris de Lange  
Mauricio R. Delgado  
Hanneke den Ouden  
Alain Destexhe  
Ralph Dileone  
Mingzhou Ding  
Patrick Dougherty  
Cheryl Dreyfus  
David Eidelberg  
Joseph El Khoury  
Abdeljabbar El Manira  
Frank M. Faraci  
James Fawcett

Donna Fekete  
Andre Fenton  
Vincent Ferrera  
Stan Floresco  
Alex Fornito  
Christie D. Fowler  
Michael J. Frank  
Paul Frankland  
Karl Friston  
Jack Gallant  
Patricia Gaspar  
Geoffrey M. Ghose  
Roman Giger  
Jonathan Godbout  
Todd Golde  
Shannon Gourley  
Helmut Haas  
Christian Haass  
Giles Hardingham  
Biyu He  
Uwe Heinemann  
Jens-Max Hopf  
Jenny Hsieh  
Eric Huang  
Andrew Huberman  
Frances Jensen  
Sheena A. Josselyn  
Thorsten Kahnt  
Artur Kania  
Donald Katz  
Matthew Kelley  
Baljit Khakh  
Marlies Knipper  
Dimitri Krainc  
Richard Krauzlis  
Rohini Kuner  
Mark Laubach  
Michael S. Levine  
Ifat Levy  
Andrew Lieberman  
Mary Kay Lobo  
Carl Lupica  
Qiufu Ma  
Olivier Manzoni  
Julio Martinez-Trujillo  
Lori McMahon  
Gavin McNally  
Hugo Merchant  
Suzanne Moenter  
Lisa Monteggia  
Marisela Morales  
Keith Murai  
Gabe Murphy  
Timothy H. Murphy  
Maiken Nedergaard  
Bernd Nilius  
Michael A. Nitsche  
Uta Noppeney  
John O'Doherty  
Jonas Oblser  
Guy Orban  
Anitha Pasupathy  
Luiz Pessoa  
Paul Phillips  
David Pleasure  
Gina R. Poe  
Lucas Pozzo-Miller  
Cathy Price  
Antonio Rangel  
Matthew Rasband  
Gregg Recanzone  
Margaret E. Rice  
Erik D. Roberson  
Matthew R. Roesch  
Dorit Ron  
Christian Rosenmund  
Edward S. Ruthazer  
Carlo Sala  
Jürgen Sandkühler  
Krish Sathian  
Laura Schrader  
Jorg B. Schulz  
Barry Setlow  
Mark Shapiro

Gordon Shulman  
Harwig Siebner  
Joshua Singer  
Wayne S. Sossin  
Tara Spire-Jones  
William C. Stacey  
Thomas A. Stalnaker  
Hans Straka  
Garret Stuber  
Raymond Swanson  
Carla Taveggia  
Gregor Thut  
Philippe N. Tobler  
Terrence Town  
Alessandro Treves  
Flora Vaccarino  
Matthijs van der Meer  
Henrique Van Gersdorff  
Donna M. Wilcock  
Dianna Willis  
Bettina Winckler  
Danny G. Winder  
Teresa L. Wood  
Lawrence Wrabetz  
Lori Zeltser  
Fengquan Zhou  
Ulf Ziemann

## FEATURES EDITOR

Teresa Esch

## EDITORIAL STAFF

Kari Black  
Zachary Dourafei  
Matthew McCabe  
Charnay Patterson  
Jacqueline Perry  
Julia Piper  
Suzanne Rosenzweig

*The Journal of Neuroscience* (ISSN-0270-6474) is the official journal of the Society for Neuroscience, 1121 14th Street, NW, Suite 1010, Washington, DC 20005. It is published weekly by the Society, fifty weeks a year, one volume a year.

**Subscriptions** are on a volume basis beginning with the January 6 issue. The Volume 36 (2016) Institutional subscription rates are available online at <http://www.jneurosci.org/subscriptions/cost.dtl>. Single copies for the U.S. are \$90, \$110 elsewhere. Institutional subscribers should direct subscription orders, back issue requests, claims, and changes of address to *The Journal of Neuroscience*, Subscription Services, 1121 14th St., NW, Suite 1010, Washington, DC 20005, [subscriptions@sfn.org](mailto:subscriptions@sfn.org). Claims will be honored if received within three (3) months of the month of issue. A maximum of three (3) single-issue claims will be honored per volume per subscriber. Society for Neuroscience members interested in subscribing to *The Journal of Neuroscience* at a reduced rate should contact the Society's Membership Department (phone 202-962-4000, [membership@sfn.org](mailto:membership@sfn.org)). Society members should also direct back issue requests to [subscriptions@sfn.org](mailto:subscriptions@sfn.org).

**Advertising** inquiries should be addressed to Jennifer Matta, The Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000, [adsales@sfn.org](mailto:adsales@sfn.org).

**Reprints** of a single copy of an individual article are available from Infotrieve at <http://www.infotrieve.com>.

**Photocopies:** *The Journal of Neuroscience* is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Authorization to photocopy items for the internal or personal use of specific clients is granted by the Society for Neuroscience provided that the copier pay to the Center the \$15.00 copy fee stated in the code on the first page of each article. Special requests, such as for general distribution, resale, advertising, and promotional purposes or for creating new works, should be directed to Journal Permissions, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, [jnpermissions@sfn.org](mailto:jnpermissions@sfn.org).

**Postmaster:** Send address changes to *The Journal of Neuroscience*, Society for Neuroscience Membership Department, 1121 14th St., NW, Suite 1010, Washington, DC 20005. Periodicals postage paid at Washington, DC, and additional mailing offices. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 0895369. *The Journal of Neuroscience* is indexed by BIOSIS, Chemical Abstracts, Current Contents, EMBASE/Excerpta Medica, Index Medicus/Medline, PubMed, PubMed Central, and PsycINFO. © *The Journal of Neuroscience* is printed on acid-free paper that meets the minimum requirements of ANSI Standard Z39.48-1984 (Permanence of Paper). Copyright © 2016 Society for Neuroscience. All rights reserved.

The ideas and opinions expressed in *The Journal of Neuroscience* do not necessarily reflect those of the Society for Neuroscience or the Editors of *The Journal of Neuroscience*. Publication of an advertisement or other product mention in *The Journal of Neuroscience* should not be construed as an endorsement of the manufacturer's claims. The Society for Neuroscience does not assume any responsibility for any injury and/or damage to persons or property arising from or related to any use of any material contained in *The Journal of Neuroscience*.