

JNeurosci

THE JOURNAL OF NEUROSCIENCE

EDITOR-IN-CHIEF

Marina Picciotto

SENIOR EDITORS

Greg DeAngelis
Jeffrey Diamond
Jay A. Gottfried
Gavan McNally
Dan H. Sanes
Ruth S. Slack
Ivan Toni
Catherine S. Woolley

REVIEWING EDITORS

Bruno Averbeck
James Bisley
Farran Briggs
Jonah Chan
Roshan Cools
Jonathan Demb
Ruth Anne Eatock
Paul Frankland
Fabrizio Gabbiani
Miriam B. Goodman
Richard Henson
Jenny Hsieh
Patricia Janak
Artur Kania
Christoph Kayser
Jon D. Levine
Anita Luthi
Mark P. Mattson
BethAnn McLaughlin
Pieter Medendorp
Suzanne M. Moenter
Jonas Obleser
Hans Op de Beeck
Linda Overstreet-Wadiche
Daniela Schiller
Kevin J. Staley
Jane M. Sullivan
Kate Wassum

ASSOCIATE EDITORS

Woo-Young Ahn
Regina Armstrong
Mark Baccei
Bernard Balleine
Tallie Z. Baram
Diana Bautista
Michael Beauchamp
Til Ole Bergmann
H. Tad Blair
Laura Bradfield
Donna Calu
Jianhua Cang
Yu-Qing Cao
Manuel Castro-Alamancos
Joseph F. Cheer
Marlene Cohen
Michael Cohen
Bevil Conway
Floris de Lange
Mauricio R. Delgado
Hanneke den Ouden
Mingzhou Ding
Yan Dong
Joseph El Khoury
Abdeljabbar El Manira
James Fawcett
Marla Feller
Lesley K. Fellows
Alfredo Fontanini
Alex Fornito
Christie D. Fowler
Michael J. Frank
Jack Gallant

Gianluca Gallo
Lindsey Glickfeld
Jonathan Godbout
Shannon Gourley
Christina Gremel
Saskia Haegens
Simon Hanslmayr
Matthew R. Hayes
Biyu He
Mary Heinricher
Mihaela Iordanova
Jens-Max Hopf
Ru-Rong Ji

Sheena A. Josselyn
Bong-Kiun Kaang
Thorsten Kahnt
Bradley Kerr
Baljit Khakh
Hackjin Kim
Marlies Knipper
Conny Kopp-Scheinflug
Rohini Kuner
Mark Laubach
Michael S. Levine
Ifat Levy
Andrew Lieberman
Angelika Lingnau
Mary Kay Lobo
David M. Lovinger
Qiufu Ma
Arianna Maffei
Nathan Marchant
Lori McMahon
Hugo Merchant
Courtney Miller
Marisela Morales
Maria Concetta Morrone
Gabe Murphy
Timothy H. Murphy
John Murray
Vishnu Murty
Nandakumar Narayanan
Maiken Nedergaard
Bernd Nilius
John O'Doherty
Christopher Pack
Luiz Pessoa
Markus Ploner
Gina R. Poe
Gabriela Popescu
Lucas Pozzo-Miller
Theodore Price
Antonio Rangel
Margaret E. Rice
Erin Rich
Erik D. Roberson
Edward S. Ruthazer
Jorg B. Schulz
Hyojung Seo
Barry Setlow
Wayne S. Sossin
William C. Stacey
Thomas A. Stalnaker
Carla Tavecchia
Gregor Thut
Philippe N. Tobler
Kuei Y. Tseng
Matthijs van der Meer
Rufin VanRullen
Timothy J. Vickery
Rufin Vogels
Henrique Von Gersdorff
Nicole Wenderoth
Donna M. Wilcock
Catharine Antonia Winstanley
Teresa L. Wood
Lawrence Wrabetz
Geoffrey Woodman
Hanns Ulrich Zeilhofer
Hui Zheng
Ulf Ziemann

FEATURES EDITOR

Teresa Esch

EDITORIAL STAFF

Kelly Newton
Blythe Alexander
Zachary Douafei
Vicente Carmona
Mary Collins
Lesley Hillis
Eric Hoffmaster
Kara O'Leary
Krystin Ventura

JNeurosci is an official journal of the Society for Neuroscience (SfN). It is published weekly by the Society, 50 weeks a year, one volume a year. Email: JN@sfn.org.

Print ISSN: 0270-6474

Online ISSN: 1529-2401

Subscriptions are on a volume basis beginning with the first issue of the year. 2019 institutional subscription rates are available online at <https://jneurosci.org/content/subscriptions/cost>. Institutional subscribers should direct subscription orders, back issue requests, claims, and changes of address to subscriptions@sfn.org. Claims will be honored if received within four months of the month of issue. A maximum of three single-issue claims will be honored per volume per subscriber.

Advertising inquiries should be addressed to adsales@sfn.org.

Copyright of all individual articles published in *JNeurosci* remains with the authors. Six months after issue publication, articles become available to the public to copy, distribute, or display under a [Creative Commons Attribution 4.0 International \(CC BY 4.0\) license](https://creativecommons.org/licenses/by/4.0/). *JNeurosci* as a collective work is copyright © 2019 Society for Neuroscience. All rights reserved.

Permissions: Questions or requests for general distribution, resale, advertising, and promotional purposes, or for creating new works of non-CC BY content should be directed to Journal Permissions at jnpermissions@sfn.org. **Photocopies:** *JNeurosci* is registered with the Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, or www.copyright.com. Authorization to photocopy items for the internal or personal use of specific clients is granted by SfN provided that the copier pay the appropriate fee directly to the CCC.

Postmaster: Send address changes to *JNeurosci*, 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.

JNeurosci is indexed by BIOSIS, Chemical Abstracts Service, Current Contents, Embase, Index Medicus/Medline, PubMed, PubMed Central, and PsycINFO.

JNeurosci is printed on acid-free paper.

The ideas and opinions expressed in *JNeurosci* do not necessarily reflect those of SfN or the *JNeurosci* Editorial Board. Publication of an advertisement or other product mention in *JNeurosci* should not be construed as an endorsement of the manufacturer's claims. SfN 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 *JNeurosci*.