

# JNeurosci

THE JOURNAL OF NEUROSCIENCE

## EDITOR-IN-CHIEF

Marina Picciotto

## SENIOR EDITORS

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

## REVIEWING EDITORS

Bruno Averbeck  
Farran Briggs  
Heather Cameron  
Jonah Chan  
Jonathan Demb  
Ruth Anne Eatock  
Aidan Horner  
Jenny Hsieh  
Thorsten Kahnt  
Artur Kania  
Jon D. Levine  
Mary Kay Lobo  
Anita Luthi  
Margaret McCarthy  
Tirin Moore  
Jonas Obleser  
Hans Op de Beeck  
Anne-Marie Oswald  
Linda Overstreet-Wadiche  
Daniela Schiller  
Kevin J. Staley  
Mark Stopfer  
Kate Wassum  
Nicole Wenderoth  
Donna M. Wilcock

## ASSOCIATE EDITORS

Woo-Young Ahn  
Regina Armstrong  
Mark Baccei  
Til Ole Bergmann  
Stephanie Borgland  
Laura Bradfield  
Andreas Burkhalter  
Erin Calipari  
Donna Calu  
Jianhua Cang  
Yu-Qing Cao  
Marlene Cohen  
Michael Cohen  
Joanne Conover  
Laura Corbit  
Andre Cravo  
Carsten Culmsee  
Theresa Desrochers  
Yan Dong  
Julie Duque  
Gregory Dussor  
Marla Feller  
Lesley K. Fellows  
Antonio Ferrer-Montiel  
Alfredo Fontanini  
Rita Fuchs  
Nicholas Furl  
Gianluca Gallo  
Lindsey Glickfeld  
Christina Gremel  
Stephanie Gupton  
Saskia Haegens

Simon Hanslmayr

Gesa Hartwigsen  
Corey Harwell  
Yu Hayashi  
Matthew R. Hayes  
Randolph Helfrich  
Mary Heinricher  
Molly Henry  
Jochen Herms  
Susan Ingram  
Mihaela Iordanova  
Alicia Izquierdo  
Ru-Rong Ji

Bong-Kiun Kaang  
Thorsten Kahnt  
Josef Kapfhammer  
Thomas Kash  
Bradley Kerr  
Julian Keil  
Anne Keitel  
Mazen Kheirbek  
Satoshi Kida  
Hackjin Kim  
Conny Kopp-Scheinpflug  
Peter Kok  
Brice Kuhl  
Julie Lefebvre  
Julia Lemos  
Angelika Lingnau  
David M. Lovinger  
Arianna Maffei  
Stephen Mahler  
Nathan Marchant  
Courtney Miller  
Maria Concetta Morrone  
John Murray  
Vishnu Murty  
Nandakumar Narayanan  
Christopher Pack  
Marius Peelen  
Markus Ploner  
Gabriela Popescu  
Theodore Price  
Mengsheng Qiu  
Erin Rich  
Jocelyn Richard  
Peter Rudebeck  
Viji Santhakumar  
Hyojung Seo  
Juan Song  
Alexis Stranahan  
János Szabadics  
Arielle Tambini  
Katalin Tóth  
Vincent Tropepe  
Kuei Y. Tseng  
Anastassios Tzingounis  
Stephen Van Hooser  
Rufin VanRullen  
Felix Viana  
Timothy J. Vickery  
Rufin Vogels  
Kaspar Vogt  
Kerry Walker  
Lu-Yang Wang  
Michael Wegner  
Catherine Weisz  
Andrew Westbrook  
Maria Wimber  
Malte Wöstmann  
Catharine Antonia Winstanley  
Geoffrey Woodman  
Hanns Ulrich Zeilhofer  
Hui Zheng  
Ying Zhang  
Benedikt Zoefel

## FEATURES EDITOR

Teresa Esch

## EDITORIAL STAFF

Kelly Newton  
Blythe Alexander  
Zachary Dourafei  
Elizabeth Griffith  
Vicente Carmona  
Madeline Esworthy  
Ryan Yates

*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](mailto:JN@sfn.org).

Online ISSN: 1529-2401

**Subscriptions** are on a volume basis beginning with the first issue of the year. 2022 institutional subscription rates are available online at <https://www.jneurosci.org/subscriptions/rates>. Institutional subscribers should direct subscription orders to [subscriptions@sfn.org](mailto:subscriptions@sfn.org).

**Advertising** inquiries should be addressed to [adsales@sfn.org](mailto: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 © 2022 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](mailto:jnpermissions@sfn.org).

**Photocopies:** *JNeurosci* is registered with the Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, or [www.copyright.com](http://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.

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

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*.