

Editor-in-Chief

David Eisner

Associate Editors

Henk L. Granzier

Christopher J. Lingle

Joseph A. Mindell

Jeanne Nerbonne

Crina Nimigean

Eduardo Ríos

Consulting Editor

Olaf S. Andersen

Guest Editors

Alessio Accardi

Toby W. Allen

Bruce P. Bean

Olga Boudker

Vincent Jacquemond

Christopher J. Lingle

Anna Menini

Joseph A. Mindell

Richard L. Moss

Mark T. Nelson

Lawrence G. Palmer

Edward N. Pugh, Jr.

Janice L. Robertson

Dirk J. Slotboom

D. Peter Tieleman

Scientific Managing Editor

Nestor Saiz

phone (212) 327-7938

email: nsaiz@rockefeller.edu

Managing Editor

Meighan E. Schreiber

phone (212) 327-8615

email: jgp@rockefeller.edu

Editorial Advisory Board

Alessio Accardi

Christopher A. Ahern

Richard W. Aldrich

Toby W. Allen

Arun Anantharam

Frances Ashcroft

Robert S. Balaban

Bruce P. Bean

Francisco Bezanilla

Rikard Blunck

Olga Boudker

Michael D. Cahalan

Stephen C. Cannon

Anne Carlson

Nancy Carrasco

William A. Catterall

Sudha Chakrapani

Baron Chanda

Edwin R. Chapman

Tsung-Yu Chen

Heping (Peace) Cheng

Colleen Clancy

Henry Colecraft

Jorge Contreras

Christine Cremo

Jianmin Cui

Cynthia Czajkowski

Thomas E. DeCoursey

Lucie Delemotte

Robert T. Dirksen

Jose M. Eltit

David Fedida

Michael Fill

Karen Fleming

Robert J. French

Norio Fukuda

Rachelle Gaudet

Alfred L. George, Jr.

Ulrik Gether

Teresa Giraldez

Ana Maria Gomez

Miriam B. Goodman

Claudio F. Grosman

Andrew L. Harris

H. Criss Hartzell

Katherine Henzler-Wildman

Ryan Hibbs

Cecilia Hidalgo

Donald W. Hilgemann

Bertil Hille

Heedeok Hong

Toshinori Hoshi

Jochen S. Hub

Tzyh-Chang Hwang

León D. Islas

Meyer B. Jackson

Vincent Jacquemond

Vasanthi Jayaraman

Timothy Jegla

Youxing Jiang

Zayd Khaliq

Susy Kohout

Theresia Kraft

Nagomi Kurebayashi

Johanna Lanner

H. Peter Larsson

Ramon Latorre

Amy Lee

Richard S. Lewis

Emily R. Liman

Polina V. Lishko

Isabel Llano

Ellen Lumpkin

Merritt Maduke

Karl L. Magleby

Isabelle Marty

Alicia Mattiazzi

Anna Menini

Andrea L. Meredith

Joseph M. Metzger

Lorin Milescu

Mirela Milescu

Justin Molloy

Anna Moroni

Richard L. Moss

Ruth Murrell-Lagnado

Angus Nairn

Erwin Neher

Mark T. Nelson

Simon Newstead

Yasushi Okamura

Yasuko Ono

Lawrence G. Palmer

Medha Pathak

Eduardo Perozo

Geoffrey S. Pitt

Stephan Pless

Jennifer Pluznick

Régis Pomès

Murali Prakriya

Catherine Proenza

Ben Prosser

Edward N. Pugh, Jr.

Michael Pusch

Indira M. Raman

Padmini Rangamani

Rajini Rao

Michael Regnier

Gail A. Robertson

Janice L. Robertson

Tamara Rosenbaum

Brad S. Rothberg

Benoit Roux

Timothy A. Ryan

Jon T. Sack

Luis Fernando Santana

Avner Schlessinger

Show-Ling Shyng

Fred J. Sigworth

Karin Sipido

Lucia Sivilotti

Dirk J. Slotboom

Eric Sobie

R. John Solaro

Dimitrios Stamou

Randy Stockbridge

Byung-Chang Suh

Sergei Sukharev

Justin W. Taraska

Doug Tobias

Francesco Tombola

Susan Treves

Matthew C. Trudeau

Stephen Tucker

Jolanda van der Velden

Valeria Vásquez

Sarah Veatch

David M. Warshaw

Alexandra Zahradníková

Hailin Zhang

Jie Zheng

Senior Preflight Editor

Laura Smith

Preflight Editor

Rochelle Ritacco

Assistant Production Editor

Elissa Hunter

Production Editor

Andrew Lo Bello

Production Manager

Camille Clowery

Production Designer

Erinn A. Grady

Journal of General Physiology and the Society of General Physiologists have a long-standing collaborative relationship.

Copyright to articles published in this journal is held by the authors. Articles are published by Rockefeller University Press under license from the authors. Conditions for reuse of the articles by third parties are listed at <http://www.rupress.org/terms>

Print ISSN 0022-1295

Online ISSN 1540-7748

Rockefeller University Press



Executive Director

Susan King

Associate Finance Director

Laura Bisberg

Director of Editorial Development

Teodoro Pulvirenti

Director of Publishing Technologies

Robert J. O'Donnell

Director of Communications and Marketing

Rory Williams

Institutional Sales Manager

Miguel Peralta

Executive Assistant to Executive Director;

Office Administrator

Demantie (Sati) Motieram

Financial Analyst

Sarah S. Kraft

Senior Science Writer

Ben Short

Marketing and Design Coordinator

Yuko Tonohira

Journal of General Physiology (ISSN 0022-1295) is published monthly by Rockefeller University Press, 950 Third Avenue, New York, NY 10022. Periodical postage paid at New York, NY and additional mailing offices.

2021 Subscription Rates

Institutional Rates

	Tier 1	Tier 2	Tier 3	Tier 4
Online	\$1,470	\$1,760	\$2,190	\$2,800
Print + Online	\$2,860	\$3,160	\$3,650	\$4,660

For more information, please contact our subscription office.

Phone: +1 212-327-8590

email: subs@rockefeller.edu

Advertising Requests

Phone: 201-767-4170

email: rupads@rockefeller.edu

Permission Requests

email: permissions@rockefeller.edu

Media Requests

email: news@rockefeller.edu

Postmaster

Send address changes to *Journal of General Physiology* Subscriptions, Rockefeller University Press, 950 Third Avenue, 2nd Floor, New York, NY 10022.