

American Journal of Physiology- Renal Physiology

Editor: T. R. KLEYMAN

Associate Editors:

G. APODACA
P. D. BELL

J. L. GARVIN
L. M. SATLIN

K. SHARMA
S. M. WALL

Editorial Reviews Board:

M. CAPLAN, P. CARMINES, J. P. JOHNSON, M. A. KNEPPER, I. KURTZ, W. M. LEVI, J. M. SANDS, *United States*
R. J. BINDELS, F. LANG, S. NIELSEN, F. VERREY, *Europe*
M. KITAMURA, *United Kingdom* P. PORONNIK, *Australia* M. IMAI, *Japan*
J. Y. LAPOINTE, *Canada* G. GAMBA, *South America* H. GARTY, *Israel*

Editorial Board:

C. K. ABRASS
A. AGARWAL
R. BACALLAO
S. M. BAGNASCO
D. BASILE
M. BAUM
W. H. BEIERWALTES
M. BEVENSEE
V. BHALLA
D. BIEMESDERFER
L. A. BIRDER
B. BRAAM
S. BRETON
M. D. BREYER
H. L. BROOKS
F. BROSIUS
L. BRUGGEMAN
M. CARATTINO
T. CHAI
C. CHATZIANTONIOU
S. CHEN
M. CHOI
T. M. COFFMAN
D. COHEN
R. CUNARD
K. M. DELL
G. DESIR
H. DRUMMOND
K. DUNN
D. EATON
C. ECELBARGER

D. ELADARI
S. FRISCHE
J. FRØKLER
D. GELLER
A. GHARAVI
M. GOLIGORSKY
J. L. GOOCH
S. GUGGINO
V. HAASE
K. R. HALLOWS
K. HAMILTON
B. HANSS
R. R. HIRSCHBERG
R. P. HUGHEY
J. D. IMIG
E. W. INSCHO
E. K. JACKSON
P. A. JOSE
R. KALLURI
B. S. KASINATH
B. K. KISHORE
J. D. KLEIN
D. E. KOHAN
R. KOMERS
J. KOPP
G. KREITZER
P. H. LANE
T. LE
S. LINAS
J. H. LIPSCHUTZ
J. LORENZ

H. MAKINO
C. MARIC
D. L. MATTON
F. MCDONALD
A. A. MCDONOUGH
R. T. MILLER
O. W. MOE
L. C. MOORE
R. S. MORELAND
J. MORRISSEY
D. B. MOUNT
R. NATARAJAN
K. A. NATH
M. OKUSA
P. A. ORTIZ
T. L. PALLONE
L. G. PALMER
A. PAO
N. PASTOR-SOLER
D. PEARCE
V. PECH
S. PENNATHUR
J. PETI-PETERDI
D. M. POLLOCK
S. R. PRICE
J. B. PRITCHARD
H. RABB
J. R. RAYMOND
J. RECKELHOFF
J. L. RENFRO
M. F. ROMERO

M. ROSS
R. L. SAFIRSTEIN
P. W. SANDERS
S. SANSON
J. SCHELLING
W. SCHNAPER
R. G. SCHNELLMANN
E. M. SCHWIEBERT
A. S. SEGAL
D. SHEIKH-HAMAD
S. SHENG
R. SPURNEY
J. D. STOCKAND
C. THOMAS
V. VALLON
J. B. WADE
C. WAGNER
W. WANG
T. WEIMBS
I. D. WEINER
A. M. WEINSTEIN
W. J. WELCH
P. A. WELLING
S. H. WRIGHT
D. K. P. YIP
N. YOSHIMURA
A. S. L. YU
R. ZATZ

Publications Committee

K. E. BARRETT, *Chair*
D. GUTTERMAN
P. MASON
P. PERSSON
J. SANDS

Ex officio

M. REICH
*Director of Publications
and Executive Editor*
I. ZUCKER, *President*
M. FRANK, *Executive Director*

M. L. GOODWIN

Editorial Manager
S. DEMMA
Journal Supervisor
J. MARQUEZ
Copy Editor

The *American Journal of Physiology-Renal Physiology* (ISSN-0363-6127) is published monthly (two volumes a year) by the American Physiological Society, 9650 Rockville Pike, Bethesda, MD 20814-3991 and on-line at ajprenal.org (ESSN-1522-1466). *Subscription Prices (postpaid):* Institutions (print and online): \$525.00, US; \$585.00, Canada and Mexico; \$595.00, elsewhere. Institutions (print only): \$500.00, US; \$560.00, Canada and Mexico; \$570.00, elsewhere. Institutions (online only): \$435.00. Nonmember individuals (print and online): \$360.00, US; \$420.00, Canada and Mexico; \$430.00, elsewhere. Nonmember individuals (print only): \$335.00, US; \$395.00, Canada and Mexico; \$405.00, elsewhere. Nonmember individuals (online only): \$295.00. APS

members (print only—online is free): \$170.00, US; \$230.00, Canada and Mexico; \$240.00, elsewhere. Single copies and back issues when available: subscriber, \$30 each; nonsubscriber, \$60 each. Subscriptions from outside the United States are payable in US currency or full equivalent. Subscriptions are accepted on a calendar-year basis only. Periodicals postage paid at Bethesda, MD and at additional mailing offices. POSTMASTER: Send address changes to the American Journal of Physiology-Renal Physiology, 9650 Rockville Pike, Bethesda, MD 20814-3991.

Copyright © 2008 by the American Physiological Society. Printed in the United States of America by Cadmus Communications—Lancaster Division, Lancaster, PA 17601. The code at the bottom of the first page of an article indicates the copyright owner's con-

sent that copies of that article may be made beyond that permitted by sections 107 and 108 of the US Copyright Law—unless the copies are for general distribution, for advertising, for creating new works, or for resale—provided the per-copy fee is paid through the Copyright Clearance Center, Inc., 222 Rosewood Dr., Danvers, MA 01923. 0363-6127/08 \$8.00.

Change of Address: The Journal must be advised of a change of address at least 6 weeks prior to date of issue, with both the subscriber's old and new address given. Undelivered copies resulting from address change will not be replaced.

Editorial and Business Correspondence: AJP-Renal Physiology, 9650 Rockville Pike, Bethesda, MD 20814-3991.