

Journal of the
**American
Society of
Nephrology**

EDITOR

C. Craig Tisher, M.D.
Gainesville, Florida

SENIOR DEPUTY EDITOR

Kirsten M. Madsen, M.D., Ph.D.
Gainesville, Florida

DEPUTY EDITOR

R. Tyler Miller, M.D.
Gainesville, Florida

ASSOCIATE EDITORS

Alfred K. Cheung, M.D.
Salt Lake City, Utah

Mark A. Knepper, M.D., Ph.D.
Bethesda, Maryland

Alan M. Krensky, M.D.
Stanford, California

Richard P. Lifton, M.D., Ph.D.
New Haven, Connecticut

William E. Mitch, M.D.
Atlanta, Georgia

Giuseppe Remuzzi, M.D.
Bergamo, Italy

EDITORIAL BOARD

Kamal F. Badr, M.D.
Atlanta, Georgia

Walter H. Hörl, M.D., Ph.D.
Wien, Austria

Timothy W. Meyer, M.D.
Palo Alto, California

Terry B. Strom, M.D.
Boston, Massachusetts

Christine Baylis, Ph.D.
Morgantown, West Virginia

Enyu Imai, M.D.
Osaka, Japan

Bruce A. Molitoris, M.D.
Indianapolis, Indiana

Lawrence P. Sullivan, Ph.D.
Kansas City, Kansas

Gavin J. Becker, M.D.
Victoria, Australia

Richard J. Johnson, M.D.
Seattle, Washington

Karl A. Nath, M.D.
Rochester, Minnesota

Isaac Teitelbaum, M.D.
Denver, Colorado

David A. Bushinsky, M.D.
Rochester, NY

Carolyn J. Kelly, M.D.
San Diego, California

Luis G. Navar, Ph.D.
New Orleans, Louisiana

Nicholas Topley, Ph.D.
Cardiff, United Kingdom

David N. Churchill, M.D.
Ontario, Canada

Paul E. Klotman, M.D.
New York, New York

Eric G. Neilson, M.D.
Philadelphia, Pennsylvania

Laurence A. Turka, M.D.
Philadelphia, Pennsylvania

Thomas M. Coffman, M.D.
Durham, North Carolina

Bruce C. Kone, M.D.
Houston, Texas

Brian J. Pereira, M.D.
Boston, Massachusetts

Fokko van der Woude, M.D.
Mannheim, Germany

William G. Couser, M.D.
Seattle, Washington

Valentina Kon, M.D.
Nashville, Tennessee

Jeffrey L. Platt, M.D.
Durham, North Carolina

David G. Warnock, M.D.
Birmingham, Alabama

Christian P. deRouffignac, M.D.
Gif sur Yvette, France

Wilhelm Kriz, M.D.
Heidelberg, Germany

Helmut G. Rennke, M.D.
Boston, Massachusetts

Roger C. Wiggins, M.B., BCh.
Ann Arbor, Michigan

Gerald F. DiBona, M.D.
Iowa City, Iowa

Kiyoshi Kurokawa, M.D.
Kanagawa, Japan

David J. Salant, M.D.
Boston, Massachusetts

Charles S. Wingo, M.D.
Gainesville, Florida

Ronald J. Falk, M.D.
Chapel Hill, North Carolina

Nathan W. Levin, M.D.
New York, New York

Jeff M. Sands, M.D.
Atlanta, Georgia

Richard A. Zager, M.D.
Seattle, Washington

M. Roy First, M.D.
Cincinnati, Ohio

John K. Leypoldt, Ph.D.
Salt Lake City, Utah

John S. Savill, M.D.
Nottingham, England

CONSULTING EDITORS

Agnes Fogo, M.D.
Nashville, Tennessee

David H. Lovett, M.D.
San Francisco, California

Nestor Schor, M.D., Ph.D.
Sao Paulo, Brazil

Jared J. Grantham, M.D.
Kansas City, Kansas

Jeffrey L. Garvin, Ph.D.
Detroit, Michigan

Alicia A. McDonough, Ph.D.
Los Angeles, California

Sudhir V. Shah, M.D.
Little Rock, Arkansas

Robert G. Narins, M.D.
Detroit, Michigan

Gregory C. Germino, M.D.
Baltimore, Maryland

Phillip A. Marsden, M.D.
Toronto, Canada

James A. Shayman, M.D.
Ann Arbor, Michigan

MANAGING EDITOR

L. Lee Hamm, M.D.
New Orleans, Louisiana

Kevin J. Martin, M.B., B.Ch.
St. Louis, Missouri

Robert A. Star, M.D.
Dallas, Texas

Bonnie O'Brien
Gainesville, Florida

Marc R. Hammerman, M.D.
St. Louis, Missouri

Arvid B. Maunsbach, M.D., Ph.D.
Aarhus, Denmark

Theodore I. Steinman, M.D.
Boston, Massachusetts

J. Harold Helderman, M.D.
Nashville, Tennessee

Paolo Mené, M.D.
Rome, Italy

R. Bernd Sterzel, M.D.
Erlangen, Germany