EDITORIAL REVIEWS
Therapeutic Use of Growth Factors in Renal Failure
Marc R. Hammerman, Steven B. Miller .................................................. 1

Apoposis and the Kidney
John Savill .......................................................... 12

AMERICAN RENAL TRAINING CENTERS
Uncontrolled Hypertension and Hyperreninemia After Hemorrhage in a Patient with End-Stage Renal Disease and Acquired Renal Cysts
Sanjeev Bongu, Pierre F. Faubert, Jerome G. Porush, Frederick Gulmi .................. 22

ARTICLES
Experimental Renal Failure in the Rat Modulates Cardiac Na,K-ATPase α2 mRNA but Not Protein
José C. Teixeira da Silva, Jr., Xiao-Jie Shi, Conrado A. Johns, Douglas M. Jefferson, Shelley A. Grubman, Nicolaos E. Madias, Ronald D. Perrone .................................................. 27

Impaired Function of Platelet Membrane Glycoprotein IIb-IIIa in End-Stage Renal Disease
Meinrad P. Gawaz, Gustav Dobos, Michael Späth, Salim K. Mujais ...................... 36

Differential Growth Factor–Induced Modulation of Proteoglycans Synthesized by Normal Human Renal Versus Cyst-Derived Cells
Judith Kovacs, Frank A. Carone, Zheng Z. Liu, Sakie Nakamura, Anil Kumar, Yashpal S. Kanwar ........ 47

Presence of a Distinct Extracellular Matrix-Degrading Metalloproteinase Activity in Renal Tubules
Patrick D. Walker, Gur P. Kaushal, Sudhir V. Shah ..................................... 55

In Vivo Osmoregulation of Na/myo-Inositol Cotransporter mRNA in Rat Kidney Medulla
Atsushi Yamauchi, Takeshi Nakanishi, Yoshihiro Takamitsu, Minoru Sugita, Enyu Imai, Tamio Noguchi, Yoshihiro Fujiiwara, Takenobu Kamada, Naohiko Ueda ............. 62

Effect of Amphotericin B on Water and Urea Transport in the Inner Medullary Collecting Duct
Yuristella Yano, José L. Monteiro, Antonio C. Seguro .................................. 68

Characterization of Cimetidine Transport in LLCPK1 Cells
R. Bendayan, B. Lo, M. Silverman ........................................... 75

Brain Buffering Is Restored in Hyponatremic Rats by Correcting Their Plasma Sodium Concentration
Sheeldon Adler, Joseph G. Verbalis, D. Williams ...................................... 85

Continued
Deleterious Effect of Cyclosporines on the Ischemic Kidney in the Rat and the Protection by the Calcium Antagonist Verapamil
Aamer Ar’Rajab, Ingemar J.A. Davidson, Richard B. Harris, William J. Mileski, James T. Sentementes

Differential Effects of Ureteral Obstruction on Rat Kininogen Gene Family
Samir S. El-Dahr, Susana Dipp

Effect of Thrombosis on Complement Activation and Neutrophil Degranulation During In Vitro Hemodialysis
Alfred K. Cheung, Bita Faezi-Jenkin, John K. Leypoldt

CONCISE REPORT
Role of the Liver in Small-Solute Transport During Peritoneal Dialysis
Michael F. Flessner, Robert L. Dedrick

ANNOUNCEMENTS

INFORMATION FOR SUBSCRIBERS

JASN THE JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY—Frequency: Monthly One Volume per year beginning in July. Correspondence concerning business matters should be addressed to: Customer Service, Subscriptions, Williams & Wilkins, 428 E. Preston Street, Baltimore, MD 21202-3993. Telephone 410-528-6423 from anywhere in the U.S. and Canada. Information, call (410) 428-8555. Fax: (410) 528-8596. Correspondence regarding editorial matters should be addressed to the Editor: Jared J. Grantham, M.D., JASN, University of Kansas Medical Center, 3901 Rainbow Blvd., Kansas City, Kansas 66160-7361. For information on American Society of Nephrology membership, contact: Sherri Thomson (202) 857-1190. Instructions to Authors appears in each issue. Annual Subscription Rates: Personal $130.00; Institutional $260.00; In-training $125.00. Other countries, surface delivery: Personal $175.00; Institutional $260.00; In-training $95.00. Single copy $21.00. Special in-training rate available to residents, interns and students for a period of three years. In requesting this rate, please indicate training status and name of institution. This special in-training rate can be extended to all participants in four-year training programs, provided that sufficient proof of training status is supplied. Institutional (multiple reader) rate applies to libraries, schools, hospitals, clinics, group practices, and federal, commercial and private institutions and organizations. For Japanese rates, please contact: Igaku-Shoin MYW Ltd., 3-23-14 Hongo, Bunkyo-Ku, Tokyo 113, JAPAN. Phone: (03) 5689-5400 or 5401. Fax: (03) 5689-5402. PRICES ARE SUBJECT TO CHANGE.

Jasn Journal of the American Society of Nephrology, 1994, Vol. 5, No. 1

The GST number for Canadian subscribers is 123394371. Country of origin USA. New subscriptions received before May 1st of each year will begin with the first issue of the year. Subscriptions received between May 1st and October 31st will start with the mid-year issue. Subscriptions received after October 31st will start with the first issue of the following year. Subscriptions may start with any current year’s issue upon request. Subscriptions should be renewed promptly to avoid a break in journal delivery. The publisher cannot guarantee to supply back issues on late renewals. Change of address: The publisher must be notified 60 days in advance. Journals undeliverable because of incorrect address will be destroyed. Duplicate copies may be obtained, if available, from the Publisher at the regular price of a single issue. Send address changes to The American Society of Nephrology, 428 East Preston Street, Baltimore, MD 21202-3993. Reprints of individual articles are available only from the authors. Reprints in large quantities, for commercial or academic use, may be purchased from the Publisher. For information and prices call (410) 528-4292. Microfilm and Microfiche: Prices are upon request. Microfilm editions may be ordered from Williams & Wilkins. The Journal’s subscription list is available for rental on a controlled basis from Williams & Wilkins. All promotional literature must be approved in advance. Sound volumes for Volumes 3, 5, and 6 will be available early 1995 to subscribers only. (US: $82.00; Foreign $92.00). Orders must be received by the Publisher before December 1, 1994. Disclaimers: The statements and opinions contained in the articles of JASN Journal of the American Society of Nephrology are solely those of the individual authors and contributors and not of the American Society of Nephrology or Williams & Wilkins. The appearance of advertisements in the Journal is not a warranty, endorsement or approval of the products or services advertised or of their effectiveness, quality or safety. The American Society of Nephrology and the Publisher disclaim responsibility for any injury to persons or property resulting from any ideas or products referred to in the articles or advertisements. Volume index appears in the June issue. Indexing/Abstracting Services: The Journal is currently included by the following services in print and/or electronic format: Index Medicus, Current Contents (Clinical Medicine, Life Sciences, Science Citation Index, Research Alert, SciSearch Database), and BIOSIS Copyright Information: JASN: THE JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY is copyrighted by the American Society of Nephrology. No portion(s) of the work(s) may be reproduced without written consent from the Publisher. Permission to reproduce copies of articles for non-commercial use may be obtained from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (508) 750-8400, with a fee of $3.00 per copy.