REGULAR ARTICLES

Cell and Structural Biology

Increased Epithelial Cell Proliferation and Abnormal Extracellular Matrix in Rat Polycystic Kidney Disease
Kumudha Ramasubbu, Norbert Gretz, Sebastian Bachmann

Immunolocalization and Tissue-Specific Splicing of AE2 Anion Exchanger in Mouse Kidney
Alan K. Stuart-Tilley, Boris E. Shmukler, Dennis Brown, Seth L. Alper

Cell and Transport Physiology

Long-Term Protein Exposure Reduces Albumin Binding and Uptake in Proximal Tubule-Derived Opossum Kidney Cells
Michael Gekle, Sigrid Mildenberger, Ruth Freudinger, Stefan Silbernagl

Hormones, Autacoids, and Growth Factors

Effects of Angiotensin II on Endothelial Cell Growth: Role of AT-1 and AT-2 Receptors
Mercedes Montón, María Angeles Castilla, María Victoria Álvarez Arroyo, Dungyong Tan, Francisco R. González-Pacheco, Antonio López Farré, Santos Casado, Carlos Caramelo

Dopamine Regulates Phosphate Uptake by Opossum Kidney Cells Through Multiple Counter-Regulatory Receptors
Eleanor D. Lederer, Sameet S. Sohi, Kenneth R. McLeish

The Cyclin Kinase Inhibitor p21[^{WAF1, CIP1}] Is Increased in Experimental Diabetic Nephropathy: Potential Role in Glomerular Hypertrophy
Chia-Jen Kuan, Mouhannad Al-Douahji, Stuart J. Shankland

Immunology and Pathology

Anti-Vitronectin Antibodies Enhance Anti-Thy-1-Induced Proteinuria in PVG/C, But Not in Wistar Rats
Mienke G. A. Van Dixhorn, Daniel Salazar-Eaxire, Toshinobu Sato, Mohamed R. Daha, Richard J. Quigg, Jan A. Bruijn, William G. Couser, Emile De Heer

Chronic Obstructive Uropathy in Severe Combined Immunodeficient (SCID) Mice: Lymphocyte Infiltration Is Not Required for Progressive Tubulointerstitial Injury
Scott B. Shappell, Tayfun Gurpinar, Juan Lechago, Wadi N. Suki, Luan D. Truong

Myocyte/Capillary Mismatch in the Heart of Uremic Patients
Kerstin Amann, Michael Breitbach, Eberhard Ritz, Gerhard Mall

continued on next page
### Molecular Medicine, Genetics, and Development

#### Ultrastructural and Immunohistochemical Findings in Alport's Syndrome: A Study of 108 Patients from 97 Italian Families with Particular Emphasis on COL4A5 Gene Mutation Correlations

Gianna Mazzucco, Paola Barsotti, Andrea Onesti Muda, Mirella Fortunato, Michael Mihatsch, Laura Torri-Tarelli, Alessandra Renieri, Tullio Faraggiiana, Mario De Marchi, Guido Monga

Receptors of Vascular Endothelial Growth Factor/Vascular Permeability Factor (VEGF/VPF) in Fetal and Adult Human Kidney: Localization and \([^{25}\text{I}]\)VEGF Binding Sites

Matthias Simon, Wolfgang Röckl, Carsten Hornig, Elisabeth F. Gröne, Henner Theis, Herbert A. Weich, Eberhard Fuchs, Avner Yayon, Hermann-Josef Grone

The Genetics of Renal Tumors in End-Stage Renal Failure Differs from Those Occurring in the General Population

Jerzy Chudek, Jutta Herbers, Mônica Wilhelm, Christiane Kenck, Peter Bugert, Eberhard Ritz, Fred Waldman, Gyula Kovacs

#### Pathophysiology of Renal Disease

Angiotensin-Converting Enzyme Inhibition Reduces the Effect of Bromoethylamine-Induced Papillary Necrosis and Renal Fibrosis

Sandra L. Garber, Yelena Mirochnik, Sapan S. Desai, Jose A. L. Arruda, George Dunea

Glutathione Reverses the Growth Abnormalities of Skin Fibroblasts from Insulin-Dependent Diabetic Patients with Nephropathy

Anna Morocutti, Meera Sethi, Anthea Hayward, Alice Lee, Giancarlo Viberti

#### Clinical Nephrology

Leucine Turnover in Patients with Nephrotic Syndrome: Evidence Suggesting Body Protein Conservation

Victoria S. Lim, Marsha Wolfson, Kevin E. Yarasheski, Michael J. Flanigan, Joel D. Kopple

Inappropriate Elevation of Serum Leptin Levels in Children with Chronic Renal Failure

Markus Daschner, Burkhard Tonshoff, Werner F. Blum, Piera Englaro, Anne-Margret Wingen, Franz Schaefer, Elke Wühl, Wolfgang Rascher, Otto Mehls

#### Dialysis

Leptin, Body Composition, and Indices of Malnutrition in Patients on Dialysis

Kirsten L. Johansen, Kathleen Mulligan, Viva Tai, Morris Schambelan

Staphylococcus Aureus Prophylaxis in Hemodialysis Patients Using Central Venous Catheter: Effect of Mupirocin Ointment

Ricardo Sesso, Dulce Barbosa, Ivani L. Leme, Helio Sader, Maria E. Canziani, Silvia Manfredi, Sergio Draibe, Antonio C. Pignatari

Elevation of Whole-Blood Glutathione in Peritoneal Dialysis Patients by L-2-Oxothiazolidine-4-Carboxylate, a Cysteine Prodrug (Procysteine®)


#### Transplantation

Living Unrelated (Commercial) Renal Transplantation in Children

Yaacov Frishberg, Sofia Feinberg, Alfred Drucker

continued on next page
Losartan, an Angiotensin II Type 1 Receptor Antagonist, Lowers Hematocrit in Posttransplant Erythrocytosis
Bruce A. Julian, Roman R. Brantley Jr., Catherine V. Barker, Tomas Stopka, Robert S. Gaston, John J. Curtis,
Jeannette Y. Lee, Josef T. Prchal
1104
Fibrosing Cholestatic Hepatitis in Hepatitis C Virus-Infected Renal Transplant Recipients
Eduardo Muñoz De Bustillo, Carolina Ibarrola, Francisco Colina, Gregorio Castellano, Antonio Fuertes, Amado Andrés,
Jose M. Aguado, Jose L. Rodicio, Jose M. Morales
1109

REVIEW
Advances in the Cell Biology and Genetics of Human Kidney Malformations
Adrian S. Woolf; Paul J. D. Winyard
1114

DISEASE OF THE MONTH
The Pathogenesis and Treatment of Hemolytic Uremic Syndrome
Bernard S. Kaplan, Kevin E. Meyers, Seth L. Schulman
1126

MILESTONES IN NEPHROLOGY
The Mechanism of Bicarbonate Reabsorption in the Proximal and Distal Tubules of the Kidney [Rector FC Jr,
Carter NW, Seldin DW: J Clin Invest 44: 278–290, 1965 (with comments by Floyd C. Rector Jr. and
Thomas D. DuBose, Jr.)]
1134

ANNOUNCEMENTS

Cover picture: Proliferating cell nuclear antigen (PCNA) immunofluorescence staining and interference contrast microscopy
illustrating cysts of different sizes with densely packed, PCNA-positive nuclei in kidney from 3-wk-old homozygous polycystic kidney disease rat. For a full description, see the related article in this issue by Kumudha Ramasubbu et al., pp 937–945.

ATTENTION ALL MANUSCRIPT CONTRIBUTORS: The Journal of the American Society of Nephrology will assess excess page charges on articles and brief communications that exceed four pages in length at a charge of $60.00 per printed page. Invited reviews, editorials, and special features will be exempt.

The Journal of the American Society of Nephrology, ISSN 1046-6673, is the official journal of the American Society of Nephrology and is published 13 times a year, bimonthly in September, by Williams & Wilkins, 351 West Camden St., Baltimore, MD 21201-2436. Periodicals postage paid at Baltimore, MD and at additional mailing offices. Subscription rates: $279 U.S. ($344 for delivery to other countries); institutions: $389 U.S. ($454 for delivery to other countries); in-training: $112 U.S. ($177 for delivery to other countries); single copy: $32 ($38 foreign). Subscription prices subject to change. Annual dues include $75 for journal subscription. To order, call 1-800-638-6423 from anywhere in the U.S. In Maryland, call 1-800-638-4007. The GST number for Canadian subscribers is 123394371. C.P.C. International Publication Mail Number 0953814. Country of origin: USA. POSTMASTER: Send address changes to the Journal of the American Society of Nephrology, 351 West Camden St., Baltimore, MD 21201-2436. The Journal has been indexed by CURRENT CONTENTS/CLINICAL MEDICINE, CURRENT CONTENTS/LIFE SCIENCES, INDEX MEDICUS, BIOSIS, and EXCERPTA MEDICA. Copyright © 1998 by the American Society of Nephrology.