

1363 **This Month's Highlights**

Future Articles

ASN News

Editorials

1365 **A New Perspective for the Treatment of Renal Diseases?**

Jan T. Kielstein and Carmine Zoccali

→ See related article by Matsumoto et al. (pages 1525–1533).

1368 **Enzyme Replacement Therapy and Fabry Kidney Disease: Quo Vadis?**

David G. Warnock

→ See related articles by Germain et al. (pages 1547–1557) and Schiffman et al. (pages 1576–1583).

Frontiers in Nephrology

Peter Igarashi and Stefan Somlo, Guest Editors

1371 **Polycystic Kidney Disease**

Peter Igarashi and Stefan Somlo

1374 **Genotype–Phenotype Correlations in Autosomal Dominant and Autosomal Recessive Polycystic Kidney Disease**

Sandro Rossetti and Peter C. Harris

1381 **Role of Primary Cilia in the Pathogenesis of Polycystic Kidney Disease**

Bradley K. Yoder

1389 **Wnt Signaling in Polycystic Kidney Disease**

Thomas Benzing, Matias Simons, and Gerd Walz

1399 **Autosomal Dominant Polycystic Kidney Disease: Time for a Change?**

Arlene B. Chapman

Basic Science Articles

Cell and Transport Physiology

1408 ★ **Distal Renal Tubular Acidosis in Mice Lacking the AE1 (Band3) $\text{Cl}^-/\text{HCO}_3^-$ Exchanger (*slc4a1*)**

Paul A. Stehberger, Boris E. Shmukler, Alan K. Stuart-Tilley, Luanne L. Peters, Seth L. Alper, and Carsten A. Wagner

1419 **Sodium-Hydrogen Exchanger Regulatory Factor-1 Interacts with Mouse Urate Transporter 1 to Regulate Renal Proximal Tubule Uric Acid Transport**

Rochelle Cunningham, Marc Brazie, Srilatha Kanumuru, Xiaofei E, Rajat Biswas, Fengying Wang, Deborah Steplock, James B. Wade, Naohiko Anzai, Hitoshi Endou, Shirish Shenolikar, and Edward J. Weinman

1426 **Acidosis-Sensing Glutamine Pump SNAT2 Determines Amino Acid Levels and Mammalian Target of Rapamycin Signalling to Protein Synthesis in L6 Muscle Cells**

Kate Evans, Zeerak Nasim, Jeremy Brown, Heather Butler, Samira Kauser, Hélène Varoqui, Jeffrey D. Erickson, Terence P. Herbert, and Alan Bevington

- 1437 **Canonical Transient Receptor Potential 1 Channel Is Involved in Contractile Function of Glomerular Mesangial Cells**
Juan Du, Sherry Sours-Brothers, Rashadd Coleman, Min Ding, Sarabeth Graham, De-Hu Kong, and Rong Ma
- 1446 **Oxidative Stress Causes Renal Dopamine D1 Receptor Dysfunction and Hypertension *via* Mechanisms That Involve Nuclear Factor- κ B and Protein Kinase C**
Anees Ahmad Banday, Fatima Rizwan Fazili, and Mustafa F. Lokhandwala
- Genetics and Development**
- 1458 **Pax Transactivation-Domain Interacting Protein Is Required for Urine Concentration and Osmotolerance in Collecting Duct Epithelia**
Doyeob Kim, Min Wang, Qi Cai, Heddwen Brooks, and Gregory R. Dressler
- Hemodynamics and Vascular Regulation**
- 1466 ★ **Role of Microsomal Prostaglandin E Synthase 1 in the Kidney**
Helene Francois, Carie Facemire, Anil Kumar, Laurent Audoly, Beverly Koller, and Thomas Coffman
- Basic Immunology and Pathology**
- 1476 ★ **Overexpression of Interleukin-13 Induces Minimal-Change-Like Nephropathy in Rats**
Kin-Wai Lai, Chang-Li Wei, Li-Kiang Tan, Puay-Hoon Tan, Gilbert S.C. Chiang, Caroline G.L. Lee, Stanley C. Jordan, and Hui-Kim Yap
- 1486 **Neutralization of Macrophage-Stimulating Protein Ameliorates Renal Injury in Anti-Thy 1 Glomerulonephritis**
Teresa Rampino, Grazia Soccio, Marilena Gregorini, Cristina Guidetti, Maddalena Marasà, Milena Maggio, Vincenzo Panichi, Massimiliano Migliori, Carmelo Libetta, and Antonio Dal Canton
- Pathophysiology of Renal Disease and Progression**
- 1497 **Erythropoietin Decreases Renal Fibrosis in Mice with Ureteral Obstruction: Role of Inhibiting TGF- β -Induced Epithelial-to-Mesenchymal Transition**
Sun-Hee Park, Min-Jeong Choi, In-Kyung Song, Soon-Youn Choi, Ju-Ock Nam, Chan-Duck Kim, Byung-Heon Lee, Rang-Woon Park, Kwon Moo Park, Yong-Jin Kim, In-San Kim, Tae-Hwan Kwon, and Yong-Lim Kim
- 1508 **Complement C5 Mediates Experimental Tubulointerstitial Fibrosis**
Peter Boor, Andrzej Konieczny, Luigi Villa, Anna-Lisa Schult, Eva Bücher, Song Rong, Uta Kunter, Claudia R.C. van Roeyen, Thomas Polakowski, Heiko Hawlisch, Sonja Hillebrandt, Frank Lammert, Frank Eitner, Jürgen Floege, and Tammo Ostendorf
- 1516 **Uric Acid Heralds Ischemic Tissue Injury to Mobilize Endothelial Progenitor Cells**
Daniel Patschan, Susann Patschan, Glenda G. Gobe, Sreedhar Chintala, and Michael S. Goligorsky
- 1525 **Dimethylarginine Dimethylaminohydrolase Prevents Progression of Renal Dysfunction by Inhibiting Loss of Peritubular Capillaries and Tubulointerstitial Fibrosis in a Rat Model of Chronic Kidney Disease**
Yuriko Matsumoto, Seiji Ueda, Sho-ichi Yamagishi, Kyoko Matsuguma, Ryo Shibata, Kei Fukami, Hidehiro Matsuoka, Tsutomu Imaizumi, and Seiya Okuda
→ See related editorial by Kielstein & Zoccali (pages 1365–1367).

Clinical Science Articles

Clinical Nephrology

- 1534 **Relief of Nocturnal Enuresis by Desmopressin Is Kidney and Vasopressin Type 2 Receptor Independent**
Joris H. Robben, Mozes Sze, Nine V. Knoers, Paul Eggert, Peter Deen, and Dominik Müller
- 1540 ★ **Albuminuria Is a Target for Renoprotective Therapy Independent from Blood Pressure in Patients with Type 2 Diabetic Nephropathy: *Post Hoc* Analysis from the Reduction of Endpoints in NIDDM with the Angiotensin II Antagonist Losartan (RENAAL) Trial**
Wouter B.A. Eijkelkamp, Zhongxin Zhang, Giuseppe Remuzzi, Hans-Henrik Parving, Mark E. Cooper, William F. Keane, Shahnaz Shahinfar, Gilbert W. Gleim, Matthew R. Weir, Barry M. Brenner, and Dick de Zeeuw
- 1547 **Sustained, Long-Term Renal Stabilization After 54 Months of Agalsidase β Therapy in Patients with Fabry Disease**
Dominique P. Germain, Stephen Waldek, Maryam Banikazemi, David A. Bushinsky, Joel Charrow, Robert J. Desnick, Philip Lee, Thomas Loew, Anouk C. Vedder, Rekha Abichandani, William R. Wilcox, and Nathalie Guffon
→ See related editorial by Warnock (pages 1368–1370).

- 1558 **Urinary Angiotensinogen as a Marker of Intrarenal Angiotensin II Activity Associated with Deterioration of Renal Function in Patients with Chronic Kidney Disease**
Tatsuo Yamamoto, Tsutomu Nakagawa, Hiroyuki Suzuki, Naro Ohashi, Hirotaka Fukasawa, Yoshihide Fujigaki, Akihiko Kato, Yukio Nakamura, Fumiaki Suzuki, and Akira Hishida
- Human Genetics**
- 1566 ★ **High *NPHP1* and *NPHP6* Mutation Rate in Patients with Joubert Syndrome and Nephronophthisis: Potential Epistatic Effect of *NPHP6* and *AHI1* Mutations in Patients with *NPHP1* Mutations**
Kálmán Tory, Tiphane Lacoste, Lydie Burglen, Vincent Morinière, Nathalie Boddaert, Marie-Alice Macher, Brigitte Llanas, Hubert Nivet, Albert Bensman, Patrick Niaudet, Corinne Antignac, Rémi Salomon, and Sophie Saunier
- 1576 **Weekly Enzyme Replacement Therapy May Slow Decline of Renal Function in Patients with Fabry Disease Who Are on Long-Term Biweekly Dosing**
Raphael Schiffmann, Hasan Askari, Margaret Timmons, Chevalia Robinson, William Benko, Roscoe O. Brady, and Markus Ries
→ See related editorial by Warnock (pages 1368–1370).
- Epidemiology and Outcomes**
- 1584 **Hepatitis C Virus and Death Risk in Hemodialysis Patients**
Kamyar Kalantar-Zadeh, Ryan D. Kilpatrick, Charles J. McAllister, Loren G. Miller, Eric S. Daar, David W. Gjertson, Joel D. Kopple and Sander Greenland
- Clinical Dialysis**
- 1594 ★ **Progressive Exercise for Anabolism in Kidney Disease (PEAK): A Randomized, Controlled Trial of Resistance Training during Hemodialysis**
Bobby Cheema, Haifa Abas, Benjamin Smith, Anthony O’Sullivan, Maria Chan, Aditi Patwardhan, John Kelly, Adrian Gillin, Glen Pang, Brad Lloyd, and Maria Fiatarone Singh
- Clinical Transplantation**
- 1602 ★ **Hemodialysis Vintage, Black Ethnicity, and Pretransplantation Antidonator Cellular Immunity in Kidney Transplant Recipients**
Joshua J. Augustine, Emilio D. Poggio, Michael Clemente, Mark I. Aeder, Kenneth A. Bodziak, James A. Schulak, Peter S. Heeger, and Donald E. Hricik
- 1607 **Diurnal Blood Pressure Changes One Year after Kidney Transplantation: Relationship to Allograft Function, Histology, and Resistive Index**
Hani M. Wadei, Hatem Amer, Sandra J. Taler, Fernando G. Cosio, Matthew D. Griffin, Joseph P. Grande, Timothy S. Larson, Thomas R. Schwab, Mark D. Stegall, and Stephen C. Textor

Announcements

- 1616 **Announcements**