

2343 **This Month's Highlights**

**Future Articles**

**ASN News**

2345 **Nephrology beyond JASN**

## Editorials

2353 **Protecting the Microvasculature: A Tie-ght Connection to Ameliorating Chronic Kidney Disease?**

Jill T. Norman

→ See related article by Kim et al. (pp. 2474–2483).

2356 **Developmental Origins of Hypertension: Biology Meets Statistics**

Susan P. Bagby

→ See related article by Hemachandra et al. (pp. 2576–2581).

## Fast Track

2359 **Nephrogenic Systemic Fibrosis: Suspected Causative Role of Gadodiamide Used for Contrast-Enhanced Magnetic Resonance Imaging**

Peter Marckmann, Lone Skov, Kristian Rossen, Anders Dupont, Mette Brimnes Damholt, James Goya Heaf, and Henrik S. Thomsen

2363 **Hemodialysis Acutely Improves Hepatic CYP3A4 Metabolic Activity**

Thomas D. Nolin, Kofi Appiah, Scott A. Kendrick, Phuong Le, Ellen McMonagle, and Jonathan Himmelfarb

## Homer W. Smith Award Lecture

2368 **Acid-Base Transport by the Renal Proximal Tubule**

Walter F. Boron

## Young Investigator Award Lecture

2383 **Proteinuria with and without Renal Glomerular Podocyte Effacement**

Raghu Kalluri

## Review

2390 **Regrow or Repair: Potential Regenerative Therapies for the Kidney**

Melissa H. Little

## Basic Science Articles

### Cell and Transport Physiology

2402 ★ **Dietary Electrolyte-Driven Responses in the Renal WNK Kinase Pathway *In Vivo***

Michelle O'Reilly, Elaine Marshall, Thomas MacGillivray, Manish Mittal, Wei Xue, Chris J. Kenyon, and Roger W. Brown

## Cell Biology

- 2414 **Akt and Mammalian Target of Rapamycin Regulate Separate Systems of Proteolysis in Renal Tubular Cells**  
Wen Shen, Nikia S. Brown, Patrick F. Finn, J. Fred Dice, and Harold A. Franch
- 2424 **Nephrocystin Specifically Localizes to the Transition Zone of Renal and Respiratory Cilia and Photoreceptor Connecting Cilia**  
Manfred Fliegau, Judit Horvath, Christian von Schnakenburg, Heike Olbrich, Dominik Müller, Julia Thumfart, Bernhard Schermer, Gregory J. Pazour, Hartmut P.H. Neumann, Hanswalter Zentgraf, Thomas Benzing, and Heymut Omran
- 2434 **Dependence of Cisplatin-Induced Cell Death *In Vitro* and *In Vivo* on Cyclin-Dependent Kinase 2**  
Peter M. Price, Fang Yu, Philipp Kaldis, Eiman Aleem, Grażyna Nowak, Robert L. Safirstein, and Judit Megyesi

## Genetics and Development

- 2443 ★ **Isolation and Characterization of Multipotent Progenitor Cells from the Bowman's Capsule of Adult Human Kidneys**  
Costanza Sagrinati, Giuseppe Stefano Netti, Benedetta Mazzinghi, Elena Lazzeri, Francesco Liotta, Francesca Frosali, Elisa Ronconi, Claudia Meini, Mauro Gacci, Roberta Squecco, Marco Carini, Loreto Gesualdo, Fabio Francini, Enrico Maggi, Francesco Annunziato, Laura Lasagni, Mario Serio, Sergio Romagnani, and Paola Romagnani

## Hemodynamics and Vascular Regulation

- 2457 **Ouabain Inhibits Tubuloglomerular Feedback in Mutant Mice with Ouabain-Sensitive  $\alpha 1$  Na,K-ATPase**  
John N. Lorenz, Iva Dostanic-Larson, Gary E. Shull, and Jerry B. Lingrel

## Pathophysiology of Renal Disease and Progression

- 2464 **Anti-Inflammatory Effect of Hepatocyte Growth Factor in Chronic Kidney Disease: Targeting the Inflamed Vascular Endothelium**  
Rujun Gong, Abdalla Rifai, and Lance D. Dworkin
- 2474 ★ **COMP-Angiopoietin-1 Ameliorates Renal Fibrosis in a Unilateral Ureteral Obstruction Model**  
Won Kim, Sang-Ok Moon, Sang Yong Lee, Kyu Yun Jang, Chung-Hyun Cho, Gou Young Koh, Kyu-Sil Choi, Kwon-Ha Yoon, Mi Jeong Sung, Duk Hoon Kim, Sik Lee, Kyung Pyo Kang, and Sung Kwang Park  
→ See related editorial by Norman et al. (pp. 2353–2355).
- 2484 **Connective Tissue Growth Factor Plays an Important Role in Advanced Glycation End Product-Induced Tubular Epithelial-to-Mesenchymal Transition: Implications for Diabetic Renal Disease**  
Wendy C. Burns, Stephen M. Twigg, Josephine M. Forbes, Josefa Pete, Christos Tikellis, Vicki Thallas-Bonke, Merlin C. Thomas, Mark E. Cooper, and Phillip Kantharidis
- 2495 **Contribution of Nonproteolytically Activated Prorenin in Glomeruli to Hypertensive Renal Damage**  
Atsuhiko Ichihara, Yuki Kaneshiro, Tomoko Takemitsu, Mariyo Sakoda, Tsutomu Nakagawa, Akira Nishiyama, Hiroshi Kawachi, Fujio Shimizu, and Tadashi Inagami
- 2504 **Renal Bone Morphogenetic Protein-7 Protects against Diabetic Nephropathy**  
Shinong Wang, Mark de Caestecker, Jeffrey Kopp, Grace Mitu, Janine LaPage, and Raimund Hirschberg
- 2513 **Induction of Glomerular Heparanase Expression in Rats with Adriamycin Nephropathy Is Regulated by Reactive Oxygen Species and the Renin-Angiotensin System**  
Andrea Kramer, Mabel van den Hoven, Angelique Rops, Tessa Wijnhoven, Lambert van den Heuvel, Joost Lenssen, Toin van Kuppevelt, Harry van Goor, Johan van der Vlag, Gerjan Navis, and Jo H.M. Berden
- 2521 **CCL19-IgG Prevents Allograft Rejection by Impairment of Immune Cell Trafficking**  
Ekkehard Ziegler, Faikah Gueler, Song Rong, Michael Mengel, Oliver Witzke, Andreas Kribben, Hermann Haller, Ulrich Kunzendorf, and Stefan Krautwald

## Disease of the Month

- 2533 **Multiple Myeloma**  
Stephen M. Korbet and Melvin M. Schwartz

## Clinical Science Articles

### Clinical Nephrology

- 2546 ★ **Falling into the Doughnut Hole: Drug Spending among Beneficiaries with End-Stage Renal Disease under Medicare Part D Plans**  
Uptal D. Patel and Matthew M. Davis

## Hemodynamics and Vascular Regulation

- 2554 **Gender Differences in the Renal Response to Renin-Angiotensin System Blockade**  
Judith A. Miller, David Z. Cherney, John A. Duncan, Vesta Lai, Kevin D. Burns, Christopher R.J. Kennedy, Joseph Zimpelmann, Wei Gao, Daniel C. Cattran, and James W. Scholey

## Epidemiology and Outcomes

- 2561 ★ **Prospective Study of the Effect of Blood Pressure on Renal Function in Old Age: The Leiden 85-Plus Study**  
Thomas van Bommel, Karen Woittiez, Gerard J. Blauw, Femke van der Sman-de Beer, Friedo W. Dekker, Rudi G.J. Westendorp, and Jacobijn Gussekloo
- 2567 **High Urinary Calcium Excretion and Genetic Susceptibility to Hypertension and Kidney Stone Disease**  
Andrew Mente, R. John D'A. Honey, John M. McLaughlin, Shelley B. Bull, and Alexander G. Logan
- 2576 **Racial Disparities in the Association between Birth Weight in the Term Infant and Blood Pressure at Age 7 Years: Results from the Collaborative Perinatal Project**  
Anusha H. Hemachandra, Mark A. Klebanoff, and Susan L. Furth  
→ See related editorial by Bagby et al. (pp. 2356–2358).
- 2582 **Macroalbuminuria Is a Better Risk Marker than Low Estimated GFR to Identify Individuals at Risk for Accelerated GFR Loss in Population Screening**  
Nynke Halbesma, Dirk-Sjoerd Kuiken, Auke H. Brantsma, Stephan J.L. Bakker, Jack F.M. Wetzels, Dick De Zeeuw, Paul E. De Jong, and Ronald T. Gansevoort; for the PREVEND Study Group
- 2591 **Meta-Analysis: Peritoneal Membrane Transport, Mortality, and Technique Failure in Peritoneal Dialysis**  
K. Scott Brimble, Michelle Walker, Peter J. Margetts, Kiran K. Kundhal, and Christian G. Rabbat
- 2599 **Adiponectin and Mortality in Patients with Chronic Kidney Disease**  
Vandana Menon, Lijun Li, Xuelei Wang, Tom Greene, Vaidyanathapuram Balakrishnan, Magdalena Madero, Arema A. Pereira, Gerald J. Beck, John W. Kusek, Allan J. Collins, Andrew S. Levey, and Mark J. Sarnak
- ## Clinical Dialysis
- 2607 ★ **Alleviation of Sleep Apnea in Patients with Chronic Renal Failure by Nocturnal Cycler-Assisted Peritoneal Dialysis Compared with Conventional Continuous Ambulatory Peritoneal Dialysis**  
Sydney C.W. Tang, Bing Lam, Pui Pui Ku, Wah Shing Leung, Chung Ming Chu, Yiu Wing Ho, Mary S.M. Ip, and Kar Neng Lai
- ## Chronic Kidney Disease
- 2617 **Cardiovascular Disease in Early Stages of Chronic Kidney Disease in a Chinese Population**  
LuXia Zhang, Li Zuo, Fang Wang, Mei Wang, ShuYu Wang, JiCheng Lv, LiSheng Liu, and HaiYan Wang
- ## Clinical Transplantation
- 2622 ★ **Untreated Rejection in 6-Month Protocol Biopsies Is Not Associated with Fibrosis in Serial Biopsies or with Loss of Graft Function**  
Eduard M. Scholten, Ajda T. Rowshani, Serge Cremers, Frederike J. Bemelman, Michael Eikmans, Erik van Kan, Marko J. Mallat, Sandrine Florquin, Janto Surachno, Ineke J. ten Berge, Ingeborg M. Bajema, and Johan W. de Fijter

## Announcements

- 2633 **Announcements**