

2635 **This Month's Highlights**

**Future Articles**

**ASN News**

2637 **Nephrology beyond JASN**

## Editorials

2644 **Immunosuppression and Regulation: Cast in New Light?**

David M. Rothstein

→ See related articles by Najafian et al. (pp. 2652–2663) and Lopez et al. (pp. 2844–2853).

2647 **Renal Hypoplasia and Dysplasia: Starting to Put the Puzzle Together**

Adrian S. Woolf

→ See related article by Weber et al. (pp. 2864–2870).

2650 **The Downside of a Drug-Crazed World**

Eric G. Neilson

→ See related article by Spanou et al. (pp. 2919–2927).

## Review

2652 **How Can We Measure Immunologic Tolerance in Humans?**

Nader Najafian, Monica J. Albin, and Kenneth A. Newell

→ See related editorial by Rothstein (pp. 2644–2646).

## Fast Track

2664 **Endothelial Nitric Oxide Synthase Deficiency Produces Accelerated Nephropathy in Diabetic Mice**  
Hui John Zhao, Suwan Wang, Huifang Cheng, Ming-zhi Zhang, Takamune Takahashi, Agnes B. Fogo,  
Matthew D. Breyer, and Raymond C. Harris

## Basic Science Articles

### Cell and Transport Physiology

2670 ★ **Expression of the Ammonia Transporter, Rh C Glycoprotein, in Normal and Neoplastic Human Kidney**

Ki-Hwan Han, Byron P. Croker, William L. Clapp, Dietrich Werner, Manisha Sahni, Jin Kim, Hye-Young Kim,  
Mary E. Handlogten, and I. David Weiner

2680 **Vasopressin Increases Plasma Membrane Accumulation of Urea Transporter UT-A1 in Rat Inner Medullary Collecting Ducts**

Janet D. Klein, Otto Fröhlich, Mitsi A. Blount, Christopher F. Martin, Tekla D. Smith, and Jeff M. Sands

2687 **Mitogen-Activated Protein Kinases Inhibit the ROMK (Kir 1.1)-Like Small Conductance K Channels in the Cortical Collecting Duct**

Elisa Babilonia, Dimin Li, Zhijian Wang, Peng Sun, Dao-Hong Lin, Yan Jin, and Wen-Hui Wang

## Cell Biology

- 2697 **A Non-Nephrotoxic Gentamicin Congener That Retains Antimicrobial Efficacy**  
Ruben M. Sandoval, James P. Reilly, William Running, Silvia B. Campos, Joseph R. Santos, Carrie L. Phillips, and Bruce A. Molitoris

## Genetics and Development

- 2706 ★ **Polycystin-2 Immunolocalization and Function in Zebrafish**  
Tomoko Obara, Steven Mangos, Yan Liu, Jinhua Zhao, Stephanie Wiessner, Albrecht G. Kramer-Zucker, Felix Olale, Alexander F. Schier, and Iain A. Drummond
- 2719 **A Truncated Polycystin-2 Protein Causes Polycystic Kidney Disease and Retinal Degeneration in Transgenic Rats**  
Anna Rachel Gallagher, Sigrid Hoffmann, Nelson Brown, Anna Cedzich, Sujatha Meruvu, Dirk Podlich, Yuxi Feng, Vera Könecke, Uwe de Vries, Hans-Peter Hammes, Norbert Gretz, and Ralph Witzgall

## Chronic Kidney Disease

- 2731 ★ **CD4<sup>+</sup>CD25<sup>+</sup> Regulatory T Cells Protect against Injury in an Innate Murine Model of Chronic Kidney Disease**  
Deepika Mahajan, Yiping Wang, Xiahong Qin, Ying Wang, Guoping Zheng, Yuan Min Wang, Stephen I. Alexander, and David C.H. Harris

## Hemodynamics and Vascular Regulation

- 2742 **Maximizing the Renal Cyclic 3'-5'-Guanosine Monophosphate System with Type V Phosphodiesterase Inhibition and Exogenous Natriuretic Peptide: A Novel Strategy to Improve Renal Function in Experimental Overt Heart Failure**  
Horng H. Chen, Brenda K. Huntley, John A. Schirger, Alessandro Cataliotti, and John C. Burnett, Jr.

## Basic Immunology and Pathology

- 2748 **Synaptic Vesicle Protein 2B Is Expressed in Podocyte, and Its Expression Is Altered in Proteinuric Glomeruli**  
Naoko Miyauchi, Akira Saito, Tamaki Karasawa, Yutaka Harita, Koichi Suzuki, Hiroko Koike, Gi Dong Han, Fujio Shimizu, and Hiroshi Kawachi
- 2760 **Renal Effects of Coxsackie B4 Virus in Hyper-IgA Mice**  
Yukihiko Kawasaki, Hosoya Mitsuaki, Masato Isome, Ruriko Nozawa, and Hitoshi Suzuki

## Pathophysiology of Renal Disease and Progression

- 2770 **Parietal Podocytes in Normal Human Glomeruli**  
Jean Bariety, Chantal Mandet, Gary S. Hill, and Patrick Bruneval
- 2781 **Downregulation of SnoN Expression in Obstructive Nephropathy Is Mediated by an Enhanced Ubiquitin-Dependent Degradation**  
Ruoyun Tan, Jinglan Zhang, Xiaoyue Tan, Xianghong Zhang, Junwei Yang, and Youhua Liu
- 2792 **Leptospiral Outer Membrane Protein Induces Extracellular Matrix Accumulation through a TGF- $\beta$ 1/Smad-Dependent Pathway**  
Ya-Chung Tian, Yung-Chang Chen, Cheng-Chieh Hung, Chiz-Tzung Chang, Mai-Szu Wu, Aled O. Phillips, Chih-Wei Yang
- 2799 **Blockade of p38 Mitogen-Activated Protein Kinase and TGF- $\beta$ 1/Smad Signaling Pathways Rescues Bone Marrow-Derived Peritubular Capillary Endothelial Cells in Adriamycin-Induced Nephrosis**  
Jinhua Li, James A. Deane, Naomi V. Campanale, John F. Bertram, and Sharon D. Ricardo
- 2812 **Wnt/ $\beta$ -Catenin Signaling Modulates Survival of High Glucose-Stressed Mesangial Cells**  
Chun-Liang Lin, Jeng-Yi Wang, Yu-Ting Huang, Yu-Hsia Kuo, Kameswaran Surendran, and Feng-Sheng Wang
- 2821 ★ **Development of Polycystic Kidney Disease in Juvenile Cystic Kidney Mice: Insights into Pathogenesis, Ciliary Abnormalities, and Common Features with Human Disease**  
Laurie A. Smith, Nikolay O. Bukanov, Hervé Husson, Ryan J. Russo, Tiffany C. Barry, Ava L. Taylor, David R. Beier, and Oxana Ibraghimov-Beskrovnaya

- 2832 **HIV-1 Genes *vpr* and *nef* Synergistically Damage Podocytes, Leading to Glomerulosclerosis**  
Yiqin Zuo, Taiji Matsusaka, Jianyong Zhong, Ji Ma, Li-jun Ma, Zaher Hanna, Paul Jolicoeur, Agnes B. Fogo, and Iekuni Ichikawa

## Basic Transplantation

- 2844 **A Novel Mechanism of Action for Anti-Thymocyte Globulin: Induction of CD4<sup>+</sup>CD25<sup>+</sup>Foxp3<sup>+</sup> Regulatory T Cells**  
Marta Lopez, Michael R. Clarkson, Monica Albin, Mohamed H. Sayegh, and Nader Najafian  
→ See related editorial by Rothstein (pp. 2644–2646).

## Disease of the Month

- 2854 **Collapsing Glomerulopathy**  
Mamdouh Albaqumi, Timothy J. Soos, Laura Barisoni, and Peter J. Nelson

## Clinical Science Articles

- 2864 ★ **Human Genetics**  
**Prevalence of Mutations in Renal Developmental Genes in Children with Renal Hypodysplasia: Results of the ESCAPE Study**  
Stefanie Weber, Vincent Moriniere, Tanja Knüppel, Marina Charbit, Jiri Dusek, Gian Marco Ghiggeri, Augustina Jankauskienė, Sevgi Mir, Giovanni Montini, Amira Peco-Antic, Elke Wühl, Aleksandra M. Zurowska, Otto Mehls, Corinne Antignac, Franz Schaefer, and Remi Salomon  
→ See related editorial by Woolf (pp. 2647–2649).
- 2871 ★ **Epidemiology and Outcomes**  
**Associations of Increases in Serum Creatinine with Mortality and Length of Hospital Stay after Coronary Angiography**  
Steven D. Weisbord, Huanyu Chen, Roslyn A. Stone, Kevin E. Kip, Michael J. Fine, Melissa I. Saul, and Paul M. Palevsky
- 2878 **Association of Mortality and Hospitalization with Achievement of Adult Hemoglobin Targets in Adolescents Maintained on Hemodialysis**  
Sandra Amaral, Wenke Hwang, Barbara Fivush, Alicia Neu, Diane Frankenfield, and Susan Furth
- 2886 **Increase in Creatinine and Cardiovascular Risk in Patients with Systolic Dysfunction after Myocardial Infarction**  
Powell Jose, Hicham Skali, Nagesh Anavekar, Charles Tomson, Harlan M. Krumholz, Jean L. Rouleau, Lemuel Moye, Marc A. Pfeffer, and Scott D. Solomon; for the SAVE Investigators
- 2892 **Risks for End-Stage Renal Disease, Cardiovascular Events, and Death in Hispanic versus Non-Hispanic White Adults with Chronic Kidney Disease**  
Carmen A. Peralta, Michael G. Shlipak, Dongjie Fan, Juan Ordoñez, James P. Lash, Glenn M. Chertow, and Alan S. Go
- 2900 **Validation of Creatinine-Based Estimates of GFR When Evaluating Risk Factors in Longitudinal Studies of Kidney Disease**  
Xuelei Wang, Julia Lewis, Lawrence Appel, DeAnna Cheek, Gabriel Contreras, Marquette Faulkner, Harold Feldman, Jennifer Gassman, Janice Lea, Joel Kopple, Mohammed Sika, Robert Toto, and Tom Greene; for the AASK Investigators
- 2910 ★ **Revisiting Survival Differences by Race and Ethnicity among Hemodialysis Patients: The Dialysis Outcomes and Practice Patterns Study**  
Bruce M. Robinson, Marshall M. Joffe, Ronald L. Pisoni, Friedrich K. Port, and Harold I. Feldman
- 2919 ★ **Clinical Immunology and Pathology**  
**Involvement of Drug-Specific T Cells in Acute Drug-Induced Interstitial Nephritis**  
Zoi Spanou, Monika Keller, Markus Britschgi, Nikhil Yawalkar, Thomas Fehr, Jörg Neuweiler, Mathias Gugger, Markus Mohaupt, and Werner J. Pichler  
→ See related editorial by Neilson (pp. 2650–2651).
- 2928 **Chronic Kidney Disease**  
**Baseline Predictors of Renal Disease Progression in the African American Study of Hypertension and Kidney Disease**  
Keith C. Norris, Tom Greene, Joel Kopple, Janice Lea, Julia Lewis, Mike Lipkowitz, Pete Miller, Annie Richardson, Stephen Rostand, Xuelei Wang, and Lawrence J. Appel; for the AASK Study Group
- 2937 **Modified Glomerular Filtration Rate Estimating Equation for Chinese Patients with Chronic Kidney Disease**  
Ying-Chun Ma, Li Zuo, Jiang-Hua Chen, Qiong Luo, Xue-Qing Yu, Ying Li, Jin-Sheng Xu, Song-Min Huang, Li-Ning Wang, Wen Huang, Mei Wang, Guo-Bin Xu, and Hai-Yan Wang; on behalf of the Chinese eGFR Investigation Collaboration

## Announcements

- 2945 **Announcements**