This Month’s Highlights

Future Articles

ASN News

Nephrology beyond JASN

Editorials

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).

Renal Hypoplasia and Dysplasia: Starting to Put the Puzzle Together
Adrian S. Woolf
See related article by Weber et al. (pp. 2864–2870).

The Downside of a Drug-Crazed World
Eric G. Neilson
See related article by Spanou et al. (pp. 2919–2927).

Review

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

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

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

Vasopressin Increases Plasma Membrane Accumulation of Urea Transporter UT-A1 in Rat Inner Medullary Collecting Ducts
Janet D. Klein, Otto Fröhlich, Mitsu A. Blount, Christopher F. Martin, Tekla D. Smith, and Jeff M. Sands

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

Maroon stars indicate articles that are featured in This Month’s Highlights.
For all articles highlighted in blue, access to UpToDate online is available for additional clinical information.
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⁺CD25⁺ 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 Bariey, 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-β1/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-β1/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/β-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 Ikumi Ichikawa

2844 A Novel Mechanism of Action for Anti-Thymocyte Globulin: Induction of CD4⁺CD25⁺Foxp3⁺ 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 ★ Prevalence of Mutations in Renal Developmental Genes in Children with Renal Hypodysplasia: Results of the ESCAPE Study
See related editorial by Woolf (pp. 2647–2649).

2871 ★ 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

Epidemiology and Outcomes

2871 ★ 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

2919 ★ Involvement of Drug-Specific T Cells in Acute Drug-Induced Interstitial Nephritis
Zoi Spanou, Monika Keller, Markus Britschgi, NikhilYawalkar, Thomas Fehr, Jörg Neuweiler, Mathias Gugger, Markus Mohaupt, and Werner J. Pichler
See related editorial by Neilson (pp. 2650–2651).

Chronic Kidney Disease

2928 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, Yining 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