This Month’s Highlights

Future Articles
ASN News

Nephrology beyond JASN

Editorials

Protecting the Microvasculature: A Tight Connection to Ameliorating Chronic Kidney Disease?
Jill T. Norman
See related article by Kim et al. (pp. 2474–2483).

Developmental Origins of Hypertension: Biology Meets Statistics
Susan P. Bagby
See related article by Hemachandra et al. (pp. 2576–2581).

Fast Track

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

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

Acid-Base Transport by the Renal Proximal Tubule
Walter F. Boron

Young Investigator Award Lecture

Proteinuria with and without Renal Glomerular Podocyte Effacement
Raghu Kalluri

Review

Regrow or Repair: Potential Regenerative Therapies for the Kidney
Melissa H. Little

Basic Science Articles

Cell and Transport Physiology

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

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

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

Nephrocystin Specifically Localizes to the Transition Zone of Renal and Respiratory Cilia and Photoreceptor Connecting Cilia
Manfred Flieglauf, 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

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

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

Ouabain Inhibits Tubuloglomerular Feedback in Mutant Mice with Ouabain-Sensitive α1 Na,K-ATPase
John N. Lorenz, Iva Dostanic-Larson, Gary E. Shull, and Jerry B. Lingrel

Pathophysiology of Renal Disease and Progression

Anti-Inflammatory Effect of Hepatocyte Growth Factor in Chronic Kidney Disease: Targeting the Inflamed Vascular Endothelium
Rujun Gong, Abdalla Rifai, and Lance D. Dworkin

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).

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

Contribution of Nonproteolytically Activated Prorenin in Glomeruli to Hypertensive Renal Damage
Atsuhiro Ichihara, Yuki Kaneshiro, Tomoko Takemitsu, Mariyo Sakoda, Tsutomu Nakagawa, Akira Nishiyama, Hiroshi Kawachi, Fujio Shimizu, and Tadashi Inagami

Renal Bone Morphogenetic Protein-7 Protects against Diabetic Nephropathy
Shinong Wang, Mark de Caestecker, Jeffrey Kopp, Grace Mitu, Janine LaPage, and Raimund Hirschberg

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 Lensen, Toin van Kuppevelt, Harry van Goor, Johan van der Vlag, Gerjan Navis, and Jo H.M. Berden

Basic Transplantation

CCL19-IgG Prevents Allograft Rejection by Impairment of Immune Cell Trafficking
Ekkehard Ziegler, Faikah Gueiler, Song Rong, Michael Mengel, Oliver Witzke, Andreas Kribben, Hermann Haller, Ulrich Kunzendorf, and Stefan Krautwald

Disease of the Month

Multiple Myeloma
Stephen M. Korbet and Melvin M. Schwartz

Clinical Science Articles

Clinical Nephrology

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
Gender Differences in the 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
Prospective Study of the Effect of Blood Pressure on Renal Function in Old Age: The Leiden 85-Plus Study
Thomas van Bemmel, Karen Woittiez, Gerard J. Blauw, Femke van der Sman-de Beer, Friedo W. Dekker, Rudi G.J. Westendorp, and Jacobijn Gussekloo

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

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).

Macroalbuminuria Is a Better Risk Marker than Low Estimated GFR to Identify Individuals at Risk for Accelerated GFR Loss in Population Screening

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

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
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
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
Untreated Rejection in 6-Month Protocol Biopsies Is Not Associated with Fibrosis in Serial Biopsies or with Loss of Graft Function

Announcements
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