This Month’s Highlights

Future Articles

ASN News

Nephrology beyond JASN

Editorial

Early Detection of Progressive Chronic Kidney Disease: Is It Feasible?
Ron T. Gansevoort, Stephan J.L. Bakker, and Paul E. de Jong
See related article by Ishani et al. (pp. 1444–1452).

Frontiers in Nephrology
Charles D. Pusey, Guest Editor

The Continuing Challenge of Anti-Neutrophil Cytoplasm Antibody–Associated Systemic Vasculitis and Glomerulonephritis
Charles D. Pusey

Anti-Neutrophil Cytoplasm–Associated Glomerulonephritis
Matthew David Morgan, Lorraine Harper, Julie Williams, and Caroline Savage

Pathogenesis of Vascular Inflammation by Anti-Neutrophil Cytoplasmic Antibodies
J. Charles Jennette, Hong Xiao, and Ronald J. Falk

Is There a Role for TNF-α in Anti-Neutrophil Cytoplasmic Antibody–Associated Vasculitis? Lessons from Other Chronic Inflammatory Diseases
Marc Feldmann and Charles D. Pusey

T Cells in Crescentic Glomerulonephritis
Peter G. Tipping and Stephen R. Holdsworth

Basic Science Articles

Cell and Transport Physiology

Dietary Sodium Intake Regulates the Ubiquitin-Protein Ligase Nedd4-2 in the Renal Collecting System
Dominique Loffing-Cueni, Sandra Y. Flores, Daniel Sauter, Dorothée Daidié, Nicole Siegrist, Pierre Meneton, Olivier Staub, and Johannes Loffing

Distal Colonic K⁺ Secretion Occurs via BK Channels
Matthias Sausbier, Joana E. Matos, Ulrike Sausbier, Golo Beranek, Claudia Arntz, Winfried Neuhuber, Peter Ruth, and Jens Leipziger

Genetics and Development

Differential Expression of the Intermediate Filament Protein Nestin during Renal Development and Its Localization in Adult Podocytes
Jing Chen, Scott Boyle, Min Zhao, Wei Su, Keiko Takahashi, Linda Davis, Mark DeCaestecker, Takamune Takahashi, Matthew D. Breyer, and Chuan-Ming Hao

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.
Isolation and Confirmation of a Calcium Excretion Quantitative Trait Locus on Chromosome 1 in Genetic Hypercalciuric Stone-Forming Congenic Rats
Richard R. Hoopes, Jr., Frank A. Middleton, Saunak Sen, Paul A. Hueber, Robert Reid, David A. Bushinsky, and Steven J. Scheinman

Basic Mineral Metabolism

Fibroblast Growth Factor 23 Is a Counter-Regulatory Phosphaturic Hormone for Vitamin D
Shiguang Liu, Wen Tang, Jianping Zhou, Jason R. Stubbs, Qiang Luo, Min Pi, and L. Darryl Quarles

Hemodynamics and Vascular Regulation

★ Influence of Acute Renal Failure on Coronary Vasoregulation in Dogs
John G. Kingma, Jr., Chantal Vincent, Jacques R. Rouleau, and Iris Kingma

Basic Immunology and Pathology

Relaxin Improves Renal Function and Histology in Aging Munich Wistar Rats
Lee A. Danielson, Angela Welford, and Alexis Harris

★ Podocyte-Specific Deletion of Integrin-Linked Kinase Results in Severe Glomerular Basement Membrane Alterations and Progressive Glomerulosclerosis
Chiraz El-Aouni, Nadja Herbach, Simone M. Blattner, Anna Henger, Maria P. Rastaldi, George Jarad, Jeffrey H. Miner, Marcus J. Moeller, Rene St-Arnaud, Shoukat Dedhar, Lawrence B. Holzman, Ruediger Wanke, and Matthias Kretzler

Distinct and Separable Roles of the Complement System in Factor H–Deficient Bone Marrow Chimeric Mice with Immune Complex Disease

Pathophysiology of Renal Disease and Progression

★ Spironolactone Prevents Diabetic Nephropathy through an Anti-Inflammatory Mechanism in Type 2 Diabetic Rats
Sang-Youb Han, Cy-Hyun Kim, Han-Seong Kim, Yi-Hwa Jee, Hye-Kyoung Song, Mi-Hwa Lee, Kum-Hyun Han, Hyoung-Kyu Kim, Young-Sun Kang, Jee-Young Han, Young-Sik Kim, and Dae-Ryong Cha

Heme Oxygenase-1 Protects Rat Kidney from Ureteral Obstruction via an Antiapoptotic Pathway
Jin Hyun Kim, Jung Ill Yang, Myeong Hee Jung, Jeong Seok Hwa, Kee-Ryeong Kang, Dong Jun Park, Gu Seob Roh, Gyeong Jae Cho, Wan Sung Choi, and Se-Ho Chang

Antioxidant Ceruloplasmin Is Expressed by Glomerular Parietal Epithelial Cells and Secreted into Urine in Association with Glomerular Aging and High-Calorie Diet
Jocelyn E. Wiggins, Meera Goyal, Bryan L. Wharram, and Roger C. Wiggins

Chronic Kidney Disease Causes Defects in Signaling through the Insulin Receptor Substrate/Phosphatidylinositol 3-Kinase/Akt Pathway: Implications for Muscle Atrophy

Mammalian Target of Rapamycin Pathway Blockade Slows Progression of Diabetic Kidney Disease in Rats
Núria Lloberas, Josep M. Cruzado, Marcella Franquesa, Immaculada Herrero-Fresneda, Joan Torras, Gabriela Alperovich, Inés Rama, August Vidal, and Josep M. Grinyó

High Glucose Blunts Vascular Endothelial Growth Factor Response to Hypoxia via the Oxidative Stress-Regulated Hypoxia-Inducible Factor/Hypoxia-Responsible Element Pathway
Pisut Katavetin, Toshio Miyata, Reiko Inagi, Tetsuhiro Tanaka, Ryoji Sassa, Julie R. Ingelfinger, Toshiro Fujita, and Masaomi Nangaku

Uptake of Chemically Reactive, DNA-Damaging Sulfuric Acid Esters into Renal Cells by Human Organic Anion Transporters
Nadiya Bakhiya, Monika Stephani, Andrew Bahn, Bernhard Ugele, Albrecht Seidel, Gerhard Burckhardt, and Hansruedi Glatt
Clinical Science Articles

Clinical Nephrology

1422 Urine Composition in Type 2 Diabetes: Predisposition to Uric Acid Nephrolithiasis
Mary Ann Cameron, Naim M. Maalouf, Beverley Adams-Huet, Orson W. Moe, and Khashayar Sakhaee

Human Genetics

1429 Autosomal Dominant Pseudohypoaldosteronism Type 1: Mechanisms, Evidence for Neonatal Lethality, and Phenotypic Expression in Adults
David S. Geller, Junhui Zhang, Maria-Christina Zennaro, Alberto Vallo-Boado, Juan Rodriguez-Soriano, Laszlo Furu, Robert Haw, Daniel Metzger, Barbara Botelho, Lefkothea Karaviti, Andrea M. Haqq, Howard Corey, Sandra Janssens, Pierre Corvol, and Richard P. Lifton

1437 Genetic Investigation of Autosomal Recessive Distal Renal Tubular Acidosis: Evidence for Early Sensorineural Hearing Loss Associated with Mutations in the ATP6V0A4 Gene

Epidemiology and Outcomes

1444 Association of Single Measurements of Dipstick Proteinuria, Estimated Glomerular Filtration Rate, and Hematocrit with 25-Year Incidence of End-Stage Renal Disease in the Multiple Risk Factor Intervention Trial
Areef Ishani, Greg A. Grandits, Richard H. Grimm, Kenneth H. Svendsen, Allan J. Collins, Ronald J. Prineas, and James D. Neaton; for the MRFIT Research Group

1453 Increasing Body Mass Index and Obesity in the Incident ESRD Population

1460 Left Ventricular Systolic Function Monitoring in Asymptomatic Dialysis Patients: A Prospective Cohort Study
Carmine Zoccali, Francesco A. Benedetto, Giovanni Tripepi, Francesca Mallamaci, Francesco Rapisarda, Giuseppe Seminara, Graziella Bonanno, and Lorenzo S. Malatino

Hemodynamics and Vascular Regulation

1466 Uric Acid and Endothelial Dysfunction in Essential Hypertension
Carmine Zoccali, Raffaele Maio, Francesca Mallamaci, Giorgio Sesti, and Francesco Perticone

Chronic Kidney Disease

1472 Non–Contrast-Enhanced Computerized Tomography and Analgesic-Related Kidney Disease: Report of the National Analgesic Nephropathy Study

1481 Early Changes in Bioelectrical Estimates of Body Composition in Chronic Kidney Disease
Vincenzo Belluzzi, Luca Scalfi, Vincenzo Terracciano, Luca De Nicola, Roberto Minutolo, Maurizio Marra, Bruna Guida, Bruno Cianciaruso, Giuseppe Conte, and Biagio R. Di Iorio

Announcements

1488 Announcements

Erratum

1489 Erratum