This Month’s Highlights

Future Articles

ASN News

Nephrology beyond JASN

Editorial

1218  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

1221  The Continuing Challenge of Anti-Neutrophil Cytoplasm Antibody–Associated Systemic Vasculitis and Glomerulonephritis
Charles D. Pusey

1224  Anti-Neutrophil Cytoplasm–Associated Glomerulonephritis
Matthew David Morgan, Lorraine Harper, Julie Williams, and Caroline Savage

1235  Pathogenesis of Vascular Inflammation by Anti-Neutrophil Cytoplasmic Antibodies
J. Charles Jennette, Hong Xiao, and Ronald J. Falk

1243  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

1253  T Cells in Crescentic Glomerulonephritis
Peter G. Tipping and Stephen R. Holdsworth

Basic Science Articles

Cell and Transport Physiology

1264  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

1275  ★ 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

1283  ★ 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

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

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

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

Fever-Like Temperatures Affect Neutrophil NF-κB Signaling, Apoptosis, and ANCA-Antigen Expression
Ralph Kettritz, Mira Choi, Birgit Salanova, Maren Wellner, Susanne Rolle, and Friedrich C. Luft

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

High Glucose Blunts Vascular Endothelial Growth Factor Response to Hypoxia via the Oxidative Stress-Regulated Hypoxia-Inducible Factor/Hypoxia-Responsible Element Pathway
Pisut Katavetin, Tosho 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 Bakhya, Monika Stephani, Andrew Bahn, Bernhard Ugele, Albrecht Seidel, Gerhard Burckhardt, and Hansruedi Glatt
Clinical Science Articles

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

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 Haws, 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**

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, Grazia Bonanno, and Lorenzo S. Malatino

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

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 Bellizzi, Luca Scalfi, Vincenzo Terracciano, Luca De Nicola, Roberto Minutolo, Maurizio Marra, Bruna Guida, Bruno Cianciaruso, Giuseppe Conte, and Biagio R. Di Iorio

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

Announcements

1488 Announcements

Erratum

1489 Erratum