

1757 **This Month's Highlights**

Future Articles

ASN News

1759 **Nephrology beyond JASN**

Special Tribute

In Memoriam

1765 **Norman J. Siegel, MD: 1943–2006**

Editorials

1767 **Uric Acid: An Old Dog with New Tricks?**

Paul W. Sanders

→ See related article by Price et al. (pp. 1791–1795).

1769 **Toll-Like Receptors: The Interface between Innate and Adaptive Immunity**

Peter G. Tipping

→ See related article by Brown et al. (pp. 1931–1939).

1772 **Molecular Dissection of Target Antigens and Nephritogenic Antibodies in Membranous Nephropathy: Towards Epitope-Driven Therapies**

Pierre Ronco and Hanna Debiec

→ See related article by Tramontano et al. (pp. 1979–1985).

1775 **Atypical HUS and Complement Dysregulation**

Timothy H.J. Goodship

→ See related article by Fremeaux-Bacchi et al. (pp. 2017–2025).

Special Features

1777 **Why Kidneys Fail: Report from an American Society of Nephrology Advances in Research Conference**

H. William Schnaper and Jeffrey B. Kopp

1782 **Genetics of Kidneys in Diabetes (GoKinD) Study: A Genetics Collection Available for Identifying Genetic Susceptibility Factors for Diabetic Nephropathy in Type 1 Diabetes**

Patricia W. Mueller, John J. Rogus, Patricia A. Cleary, Yuan Zhao, Adam M. Smiles, Michael W. Steffes, Jean Bucksa, Therese B. Gibson, Suzanne K. Cordovado, Andrzej S. Krolewski, Concepcion R. Nierras, and James H. Warram

Fast Track

1791 **Human Vascular Smooth Muscle Cells Express a Urate Transporter**

Karen L. Price, Yuri Y. Sautin, David A. Long, Li Zhang, Hiroki Miyazaki, Wei Mu, Hitoshi Endou, and Richard J. Johnson

→ See related editorial by Sanders (pp. 1767–1768).

- 1796 **An Ancestral Haplotype Defines Susceptibility to Doxorubicin Nephropathy in the Laboratory Mouse**
Zongyu Zheng, Paul Pavlidis, Streamson Chua, Vivette D. D'Agati, and Ali G. Gharavi
- 1801 **Formation of Primary Cilia in the Renal Epithelium Is Regulated by the von Hippel-Lindau Tumor Suppressor Protein**
Miguel A. Esteban, Sarah K. Harten, Maxine G. Tran, and Patrick H. Maxwell

Reviews

- 1807 **Protein Degradation by the Ubiquitin-Proteasome Pathway in Normal and Disease States**
Stewart H. Lecker, Alfred L. Goldberg, and William E. Mitch
- 1820 **Body Water Homeostasis: Clinical Disorders of Urinary Dilution and Concentration**
Robert W. Schrier

Basic Science Articles

- 1833 **Cell and Transport Physiology**
Phosphorylation of S⁹⁵⁵ at the Protein Kinase A Consensus Promotes Maturation of the α Subunit of the Colonic H⁺,K⁺-ATPase
Juan Codina, Jingfang Liu, Anthony J. Bleyer, Raymond B. Penn, and Thomas D. DuBose, Jr.
- 1841 **Intraluminal ATP Concentrations in Rat Renal Tubules**
Renu M. Vekaria, Robert J. Unwin, and David G. Shirley
- 1848 ★ **Low Doses of Ouabain Protect from Serum Deprivation-Triggered Apoptosis and Stimulate Kidney Cell Proliferation via Activation of NF- κ B**
Juan Li, Sergey Zelenin, Anita Aperia, and Oleg Aizman
- 1858 **Vacuolar H⁺-ATPase B1 Subunit Mutations that Cause Inherited Distal Renal Tubular Acidosis Affect Proton Pump Assembly and Trafficking in Inner Medullary Collecting Duct Cells**
Qiongqiong Yang, Guangmu Li, Satish K. Singh, Edward A. Alexander, and John H. Schwartz
- 1867 **WNK1 Affects Surface Expression of the ROMK Potassium Channel Independent of WNK4**
Georgina Cope, Meena Murthy, Amir P. Golbang, Abbas Hamad, Che-Hsiung Liu, Alan W. Cuthbert, and Kevin M. O'Shaughnessy
- 1875 **Cell Biology**
Cytoprotective Effects of Hypoxia against Cisplatin-Induced Tubular Cell Apoptosis: Involvement of Mitochondrial Inhibition and p53 Suppression
Jinzhaoyang Wang, Mangatt P. Biju, Mong-Heng Wang, Volker H. Haase, and Zheng Dong
- 1886 ★ **Angiotensin Type 1 Receptor Blocker Restores Podocyte Potential to Promote Glomerular Endothelial Cell Growth**
Xiu-Bin Liang, Li-Jun Ma, Takashi Naito, Yihan Wang, Michael Madaio, Roy Zent, Ambra Pozzi, and Agnes B. Fogio
- 1896 **Genetics and Development**
Kidney Side Population Reveals Multilineage Potential and Renal Functional Capacity but also Cellular Heterogeneity
Grant A. Challen, Ivan Bertoncello, James A. Deane, Sharon D. Ricardo, and Melissa H. Little
- 1913 **A Hypomorphic Mutation in the Mouse Laminin α 5 Gene Causes Polycystic Kidney Disease**
M. Brendan Shannon, Bruce L. Patton, Scott J. Harvey, and Jeffrey H. Miner
- 1923 **Basic Mineral Metabolism**
Parathyroid Hormone 7-84 Induces Hypocalcemia and Inhibits the Parathyroid Hormone 1-84 Secretory Response to Hypocalcemia in Rats with Intact Parathyroid Glands
Jinxing Huan, Klaus Olgaard, Lars Bo Nielsen, and Ewa Lewin
- 1931 **Basic Immunology and Pathology**
Toll-Like Receptor 2 Agonists Exacerbate Accelerated Nephrotoxic Nephritis
Heather J. Brown, Steven H. Sacks, and Michael G. Robson
→ See related editorial by Tipping (pp. 1769–1771).
- 1940 ★ **Anti-Neutrophil Cytoplasmic Antibodies and Effector CD4⁺ Cells Play Nonredundant Roles in Anti-Myeloperoxidase Crescentic Glomerulonephritis**
Amanda-Jane Ruth, A. Richard Kitching, Rain Y.Q. Kwan, Dragana Odobasic, Joshua D.K. Ooi, Jennifer R. Timoshanko, Michael J. Hickey, and Stephen R. Holdsworth

Pathophysiology of Renal Disease and Progression

- 1950 **Prorenin Receptor Blockade Inhibits Development of Glomerulosclerosis in Diabetic Angiotensin II Type 1a Receptor-Deficient Mice**
Atsuhiko Ichihara, Fumiaki Suzuki, Tsutomu Nakagawa, Yuki Kaneshiro, Tomoko Takemitsu, Mariyo Sakoda, A.H.M. Nurun Nabi, Akira Nishiyama, Takeshi Sugaya, Matsuhiko Hayashi, and Tadashi Inagami
- 1962 **Loss of $\alpha 3/\alpha 4$ (IV) Collagen from the Glomerular Basement Membrane Induces a Strain-Dependent Isoform Switch to $\alpha 5\alpha 6$ (IV) Collagen Associated with Longer Renal Survival in $Col4a3^{-/-}$ Alport Mice**
Jeong Suk Kang, Xu-Ping Wang, Jeffrey H. Miner, Roy Morello, Yoshikazu Sado, Dale R. Abrahamson, and Dorin-Bogdan Borza
- 1970 ★ **Preconditional Activation of Hypoxia-Inducible Factors Ameliorates Ischemic Acute Renal Failure**
Wanja M. Bernhardt, Valentina Câmpean, Sarah Kany, Jan-Steffen Jürgensen, Alexander Weidemann, Christina Warnecke, Michael Arend, Stephen Klaus, Volkmar Günzler, Kerstin Amann, Carsten Willam, Michael S. Wiesener, and Kai-Uwe Eckardt
- 1979 **Nested N-Terminal Megalin Fragments Induce High-Titer Autoantibody and Attenuated Heymann Nephritis**
Alfonso Tramontano, Thomas Knight, Domenica Vizzuso, and Sudesh P. Makker
→ See related editorial by Ronco and Debiec (pp. 1772–1774).
- 1986 **Chronic Renal Failure and Shortened Lifespan in $COL4A3^{+/-}$ Mice: An Animal Model for Thin Basement Membrane Nephropathy**
Bogdan Beirowski, Manfred Weber, and Oliver Gross

Disease of the Month

- 1995 **Chronic Kidney Disease in Long-Term Survivors of Hematopoietic Cell Transplantation: Epidemiology, Pathogenesis, and Treatment**
Sangeeta Hingorani

Clinical Science Articles

Clinical Nephrology

- 2006 **Statins for Improving Renal Outcomes: A Meta-Analysis**
Sabrina Sandhu, Natasha Wiebe, Linda F. Fried, and Marcello Tonelli
- 2017 ★ **Genetic and Functional Analyses of Membrane Cofactor Protein (CD46) Mutations in Atypical Hemolytic Uremic Syndrome**
Véronique Fremeaux-Bacchi, Elizabeth A. Moulton, David Kavanagh, Marie-Agnès Dragon-Durey, Jacques Blouin, Amy Caudy, Nadia Arzouk, Roxanna Cleper, Maud Francois, Genevieve Guest, Jacques Pourrat, Roland Seligman, Wolf Herman Fridman, Chantal Loirat, and John P. Atkinson
→ See related editorial by Goodship (pp. 1775–1776).
- 2026 **Type 2 Diabetes Increases the Risk for Uric Acid Stones**
Michel Daudon, Olivier Traxer, Pierre Conort, Bernard Lacour, and Paul Jungers
- 2034 ★ **Chronic Kidney Disease and Mortality Risk: A Systematic Review**
Marcello Tonelli, Natasha Wiebe, Bruce Culleton, Andrew House, Chris Rabbat, Mei Fok, Finlay McAlister, and Amit X. Garg
- 2048 **Influence of Genomic Loci on Measures of Chronic Kidney Disease in Hypertensive Sibships**
Stephen T. Turner, Sharon L.R. Kardia, Thomas H. Mosley, Andrew D. Rule, Eric Boerwinkle, and Mariza de Andrade
- 2056 **Epidemiology and Outcomes**
Peripheral Arterial Disease and Renal Transplantation
Jon J. Snyder, Bertram L. Kasiske, and Ross Maclean
- 2069 ★ **Incidental Renal Artery Stenosis Is an Independent Predictor of Mortality in Patients with Peripheral Vascular Disease**
Kwok-Wai Mui, Mengalvio Sleswijk, Huib van den Hout, Jef van Baal, Gerjan Navis, and Arend-Jan Woittiez