

1491 **This Month's Highlights**

Future Articles

ASN News

1493 **Nephrology beyond JASN**

Editorials

1498 **MEK Inhibition Holds Promise for Polycystic Kidney Disease**

James P. Calvet

→ See related article by Omori et al. (pp. 1604–1614).

1501 **The Enlarging Body of Evidence: Obesity and Chronic Kidney Disease**

Glenn M. Chertow, Chi-yuan Hsu, and Kirsten L. Johansen

→ See related article by Ejerblad et al. (pp. 1695–1702).

Review

1503 **Update on Mechanisms of Ischemic Acute Kidney Injury**

Prasad Devarajan

Basic Science Articles

Cell and Transport Physiology

1521 ★ **Tonicity-Responsive Enhancer Binding Protein Is an Essential Regulator of Aquaporin-2 Expression in Renal Collecting Duct Principal Cells**

Udo Hasler, Un Sil Jeon, Jeong Ah Kim, David Mordasini, H. Moo Kwon, Eric Féraille, and Pierre-Yves Martin

Cell Biology

1532 ★ **Downregulation of Connexin 43 Expression by High Glucose Induces Senescence in Glomerular Mesangial Cells**

Xiaojie Zhang, Xiangmei Chen, Di Wu, Weiping Liu, Jianzhong Wang, Zhe Feng, Guangyan Cai, Bo Fu, Quan Hong, and Jing Du

1543 **Glial Cell Line-Derived Neurotrophic Factor and Its Receptor Ret Is a Novel Ligand-Receptor Complex Critical for Survival Response during Podocyte Injury**

Cynthia C. Tsui, Stuart J. Shankland, and Brian A. Pierchala

1553 **Overexpression of Hyaluronan Synthase 2 Alters Hyaluronan Distribution and Function in Proximal Tubular Epithelial Cells**

Wisam Selbi, Anthony J. Day, Marilyn S. Rugg, Csaba Fülöp, Carol A. de la Motte, Timothy Bowen, Vincent C. Hascall, and Aled O. Phillips

Genetics and Development

1568 **Suppression of Ureteric Bud Apoptosis Rescues Nephron Endowment and Adult Renal Function in Pax2 Mutant Mice**

Alison Dziarmaga, Michael Eccles, and Paul Goodyer

- 1576 **Erythropoietin Delivery by Genetically Engineered Bone Marrow Stromal Cells for Correction of Anemia in Mice with Chronic Renal Failure**
Nicoletta Eliopoulos, Raymonde F. Gagnon, Moira Francois, and Jacques Galipeau
- Basic Immunology and Pathology**
- 1585 ★ **Angiotensin II Upregulates Toll-Like Receptor 4 on Mesangial Cells**
Gunter Wolf, Jürgen Bohlender, Tzvetanka Bondeva, Thierry Roger, Friedrich Thaiss, and Ulrich O. Wenzel
- Pathophysiology of Renal Disease and Progression**
- 1594 **Role of Parathyroid Hormone-Related Protein in Tubulointerstitial Apoptosis and Fibrosis after Folic Acid-Induced Nephrotoxicity**
Arantxa Ortega, David Rámila, Juan Antonio Ardura, Vanesa Esteban, Marta Ruiz-Ortega, Antonio Barat, Rosa Gazapo, Ricardo J. Bosch, and Pedro Esbrit
- 1604 **Extracellular Signal-Regulated Kinase Inhibition Slows Disease Progression in Mice with Polycystic Kidney Disease**
Sayu Omori, Mariko Hida, Hisayo Fujita, Hisahide Takahashi, Susumu Tanimura, Michiaki Kohno, and Midori Awazu
→ See related editorial by Calvet (pp. 1498–1500).
- 1615 **Role of EGF Receptor Activation in Angiotensin II-Induced Renal Epithelial Cell Hypertrophy**
Jianchun Chen, Jian-Kang Chen, Eric G. Neilson, and Raymond C. Harris
- 1624 **Transcriptional Regulation of Neph rin Gene by Peroxisome Proliferator-Activated Receptor- γ Agonist: Molecular Mechanism of the Antiproteinuric Effect of Pioglitazone**
Ariela Benigni, Carla Zoja, Susanna Tomasoni, Marco Campana, Daniela Corna, Cristina Zanchi, Elena Gagliardini, Elvira Garofano, Daniela Rottoli, Takahito Ito, and Giuseppe Remuzzi
- 1633 **Activation of Tubular Epithelial Cells in Diabetic Nephropathy and the Role of the Peroxisome Proliferator-Activated Receptor- γ Agonist**
Sydney C.W. Tang, Joseph C.K. Leung, Loretta Y.Y. Chan, Anita W.L. Tsang, and Kar Neng Lai
- 1644 **IGF-Binding Protein-3 Modulates TGF- β /BMP-Signaling in Glomerular Podocytes**
Imke Peters, Irini Tossidou, Johannes Achenbach, Robert Woroniecki, Michael Mengel, Joon-Keun Park, Melanie Paschy, Kirsten de Groot, Hermann Haller, and Mario Schiffer
- 1657 **Hyperosmolality *In Vivo* Upregulates Aquaporin 2 Water Channel and Na-K-2Cl Co-Transporter in Brattleboro Rats**
Chunling Li, Weidong Wang, Sandra N. Summer, Melissa A. Cadnapaphornchai, Sandor Falk, Fuminori Umenishi, and Robert W. Schrier
- Basic Transplantation**
- 1665 ★ **Adeno-Associated Virus-Mediated CTLA4Ig Gene Transfer Protects MHC-Mismatched Renal Allografts from Chronic Rejection**
Ariela Benigni, Susanna Tomasoni, Laurence A. Turka, Lorena Longaretti, Lorena Zentilin, Marilena Mister, Anna Pezzotta, Nadia Azzollini, Marina Noris, Sara Conti, Mauro Abbate, Mauro Giacca, and Giuseppe Remuzzi

Disease of the Month

- 1673 **Crystal Retention in Renal Stone Disease: A Crucial Role for the Glycosaminoglycan Hyaluronan?**
Carl Friedrich Verkoelen

Clinical Science Articles

- Clinical Nephrology**
- 1688 ★ **Validity of *International Classification of Diseases, Ninth Revision, Clinical Modification* Codes for Acute Renal Failure**
Sushrut S. Waikar, Ron Wald, Glenn M. Chertow, Gary C. Curhan, Wolfgang C. Winkelmayer, Orfeas Liangos, Marie-Anne Sosa, and Bertrand L. Jaber
- Epidemiology and Outcomes**
- 1695 ★ **Obesity and Risk for Chronic Renal Failure**
Elisabeth Ejerblad, C. Michael Fored, Per Lindblad, Jon Fryzek, Joseph K. McLaughlin, and Olof Nyrén
→ See related editorial by Chertow et al. (pp. 1501–1502).

Hemodynamics and Vascular Regulation

- 1703 **Impact of Renin Angiotensin System Modulation on the Hyperfiltration State in Type 1 Diabetes**
Etienne B. Sochett, David Z.I. Cherney, Jacqueline R. Curtis, Maria G. Dekker, James W. Scholey, and Judith A. Miller

Chronic Kidney Disease

- 1710 ★ **Racial Differences in the Prevalence of Chronic Kidney Disease among Participants in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Cohort Study**
William McClellan, David G. Warnock, Leslie McClure, Ruth C. Campbell, Britt B. Newsome, Virginia Howard, Mary Cushman, and George Howard
- 1716 **Ethnic Disparities in Cardiovascular Risk Factors and Coronary Disease Prevalence among Individuals with Chronic Kidney Disease: Findings from the Third National Health and Nutrition Examination Survey**
Hoang Thanh Nguyen and Austin G. Stack

Clinical Immunology and Pathology

- 1724 ★ **Glomerular Activation of the Lectin Pathway of Complement in IgA Nephropathy Is Associated with More Severe Renal Disease**
Anja Roos, Maria Pia Rastaldi, Novella Calvaresi, Beatrijs D. Oortwijn, Nicole Schlagwein, Danielle J. van Gijlswijk-Janssen, Gregory L. Stahl, Misao Matsushita, Teizo Fujita, Cees van Kooten, and Mohamed R. Daha

Clinical Transplantation

- 1735 **Safety and Efficacy of a Calcineurin Inhibitor Avoidance Regimen in Pediatric Renal Transplantation**
William Harmon, Kevin Meyers, Julie Ingelfinger, Ruth McDonald, Matthew McIntosh, Martin Ho, Leslie Spaneas, Jo Ann Palmer, Marena Hawk, Chris Geehan, Kathryn Tinckam, Wayne W. Hancock, and Mohamed H. Sayegh
- 1746 **Early Posttransplant Serum Osteoprotegerin Levels Predict Long-Term (8-Year) Patient Survival and Cardiovascular Death in Renal Transplant Patients**
Jøran Hjelmæsæth, Thor Ueland, Allan Flyvbjerg, Jens Bollerslev, Torbjørn Leivestad, Trond Jensen, Troels Krarup Hansen, Steffen Thiel, Solbjørg Sagedal, Jo Røislien, and Anders Hartmann

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