

This Month's Highlights

UP FRONT MATTERS

Editorials

- 865 **Epigenetic Unsilencing Reverses Renal Fibrosis**
Debra F. Higgins and Madeline Murphy
• See related article by Tampe et al. (pp. 905–912).
- 866 **All of the Twos, 22—Bingo!**
Andrew J. Rees
• See related articles by Xu et al. (pp. 967–977); and Kulkarni et al. (pp. 978–989).
- 869 **Endothelin Antagonists in Diabetic Nephropathy: Back to Basics**
Kiran Chandrashekar and Luis A. Juncos
• See related articles by Lenoir et al. (pp. 1050–1062); and de Zeeuw et al. (pp. 1083–1093).
- 871 **HDL in CKD: How Good Is the “Good Cholesterol?”**
Ian H. de Boer and John D. Brunzell
• See related article by Zewinger et al. (pp. 1073–1082).

Clinical Commentary

- 875 **An Inadvertent but Explicable Error in Calculating Number Needed to Treat for Reporting Survival Data**
Sudhir K. Bowry, Volker Schoder, and Christian Apel

Brief Reviews

- 877 **Challenges and Advances in the Treatment of AKI**
Gur P. Kaushal and Sudhir V. Shah
- 884 **Volatile Anesthetics and AKI: Risks, Mechanisms, and a Potential Therapeutic Window**
Kyota Fukazawa and H. Thomas Lee

Special Articles

- 893 **ASN Presidential Address 2013: Innovation and Individualization—The Path Forward for Nephrology**
Bruce A. Molitoris

- 898 **The Kidney Research Predicament**
Lisa Bryan, Tod Ibrahim, Roy Zent, and Michael J. Fischer

BRIEF COMMUNICATIONS

- 905 **Tet3-Mediated Hydroxymethylation of Epigenetically Silenced Genes Contributes to Bone Morphogenic Protein 7-Induced Reversal of Kidney Fibrosis**
Björn Tampe, Desiree Tampe, Claudia A. Müller, Hikaru Sugimoto, Valerie LeBleu, Xingbo Xu, Gerhard A. Müller, Elisabeth M. Zeisberg, Raghu Kalluri, and Michael Zeisberg
• See related editorial by Higgins and Murphy (pp. 865–866).
- 913 **Nonlinear Trajectory of GFR in Children before RRT**
Yichen Zhong, Alvaro Muñoz, George J. Schwartz, Bradley A. Warady, Susan L. Furth, and Alison G. Abraham
- 918 **Neonatal Fc Receptor Promotes Immune Complex-Mediated Glomerular Disease**
Florina Olaru, Wentian Luo, Hani Suleiman, Patricia L. St. John, Linna Ge, Adam R. Mezo, Andrey S. Shaw, Dale R. Abrahamson, Jeffrey H. Miner, and Dorin-Bogdan Borza

BASIC RESEARCH

- 927 **Extensive Podocyte Loss Triggers a Rapid Parietal Epithelial Cell Response**
Samy Hakrrouch, Angelika Cebulla, Thomas Schaldecker, Daniel Behr, Peter Mundel, and Astrid Weins
- 939 **★Global Analysis Reveals the Complexity of the Human Glomerular Extracellular Matrix**
Rachel Lennon, Adam Byron, Jonathan D. Humphries, Michael J. Randles, Alex Carisey, Stephanie Murphy, David Knight, Paul E. Brenchley, Roy Zent, and Martin J. Humphries

- 953 Glomerular Cell Cross-Talk Influences Composition and Assembly of Extracellular Matrix**
Adam Byron, Michael J. Randles, Jonathan D. Humphries, Aleksandr Mironov, Hellyeh Hamidi, Shelley Harris, Peter W. Mathieson, Moin A. Saleem, Simon C. Satchell, Roy Zent, Martin J. Humphries, and Rachel Lennon
- 967 IL-22 Ameliorates Renal Ischemia-Reperfusion Injury by Targeting Proximal Tubule Epithelium**
Ming-Jiang Xu, Dechun Feng, Hua Wang, Youfei Guan, Xiaoqiang Yan, and Bin Gao
• See related editorial by Rees (pp. 866–869).
- 978 Toll-Like Receptor 4–Induced IL-22 Accelerates Kidney Regeneration**
Onkar P. Kulkarni, Ingo Hartter, Shrikant R. Mulay, Jan Hagemann, Murthy N. Darisipudi, Santhosh Kumar VR, Simone Romoli, Dana Thomasova, Mi Ryu, Sebastian Kobold, and Hans-Joachim Anders
• See related editorial by Rees (pp. 866–869).
- 990 ★Enhanced Formation and Disordered Regulation of NETs in Myeloperoxidase-ANCA–Associated Microscopic Polyangiitis**
Daigo Nakazawa, Haruki Shida, Utano Tomaru, Masaharu Yoshida, Saori Nishio, Tatsuya Atsumi, and Akihiro Ishizu
- 998 Renal Cortical Pyruvate Depletion during AKI**
Richard A. Zager, Ali C.M. Johnson, and Kirsten Becker
- 1013 ★Syndecan-4 Knockout Leads to Reduced Extracellular Transglutaminase-2 and Protects against Tubulointerstitial Fibrosis**
Alessandra Scarpellini, Linghong Huang, Izhar Burhan, Nina Schroeder, Muriel Funck, Timothy S. Johnson, and Elisabetta A.M. Verderio
- 1028 ★Cubilin Maintains Blood Levels of HDL and Albumin**
Obaidullah Aseem, Brian T. Smith, Marion A. Cooley, Brent A. Wilkerson, Kelley M. Argraves, Alan T. Remaley, and W. Scott Argraves
- 1037 Genetics of New-Onset Diabetes after Transplantation**
Jennifer A. McCaughan, Amy Jayne McKnight, and Alexander P. Maxwell
- 1050 Direct Action of Endothelin-1 on Podocytes Promotes Diabetic Glomerulosclerosis**
Olivia Lenoir, Marine Milon, Anne Virsolvy, Carole Hénique, Alain Schmitt, Jean-Marc Massé, Yuri Kotelevtsev, Masashi Yanagisawa, David J. Webb, Sylvain Richard, and Pierre-Louis Tharaux
• See related editorial by Chandrashekar and Juncos (pp. 869–871).
- CLINICAL EPIDEMIOLOGY**
- 1063 ★Urinary Biomarkers of AKI and Mortality 3 Years after Cardiac Surgery**
Steven G. Coca, Amit X. Garg, Heather Thiessen-Philbrook, Jay L. Koyner, Uptal D. Patel, Harlan M. Krumholz, Michael G. Shlipak, and Chirag R. Parikh, for the TRIBE-AKI Consortium
- 1073 HDL Cholesterol Is Not Associated with Lower Mortality in Patients with Kidney Dysfunction**
Stephen Zewinger, Thimoteus Speer, Marcus E. Kleber, Hubert Scharnagl, Rainer Woitas, Philipp M. Lepper, Karolin Pfahler, Sarah Seiler, Gunnar H. Heine, Winfried März, Günther Silbernagel, and Danilo Fliser
• See related editorial by de Boer and Brunzell (pp. 871–874).
- CLINICAL RESEARCH**
- 1083 The Endothelin Antagonist Atrasentan Lowers Residual Albuminuria in Patients with Type 2 Diabetic Nephropathy**
Dick de Zeeuw, Blai Coll, Dennis Andress, John J. Brennan, Hui Tang, Mark Houser, Ricardo Correa-Rotter, Donald Kohan, Hiddo J. Lambers Heerspink, Hirofumi Makino, Vlado Perkovic, Yili Pritchett, Giuseppe Remuzzi, Sheldon W. Tobe, Robert Toto, Giancarlo Viberti, and Hans-Henrik Parving
• See related editorial by Chandrashekar and Juncos (pp. 869–871).
- 1094 ★Long-Term Effects of Spironolactone in Peritoneal Dialysis Patients**
Yasuhiko Ito, Masashi Mizuno, Yasuhiro Suzuki, Hirofumi Tamai, Takeyuki Hiramatsu, Hiroshige Ohashi, Isao Ito, Hirotake Kasuga, Masanobu Horie, Shoichi Maruyama, Yukio Yuzawa, Tatsuaki Matsubara, and Seiichi Matsuo, on behalf of the Nagoya Spiro Study Group

- 1103 Intensive Hemodialysis Associates with Improved Pregnancy Outcomes: A Canadian and United States Cohort Comparison**
Michelle A. Hladunewich, Susan Hou, Ayodele Odutayo, Tom Cornelis, Andreas Pierratos, Marc Goldstein, Karthik Tennankore, Johannes Keunen, Dini Hui, and Christopher T. Chan
- 1110 Clinical Findings, Pathology, and Outcomes of C3GN after Kidney Transplantation**
Ladan Zand, Elizabeth C. Lorenz, Fernando G. Cosio, Fernando C. Fervenza, Samih H. Nasr, Manish J. Gandhi, Richard J. H. Smith, and Sanjeev Sethi
- 1118 Estimating Podocyte Number and Density Using a Single Histologic Section**
Madhusudan Venkatareddy, Su Wang, Yan Yang, Sanjeevkumar Patel, Larysa Wickman, Ryuzoh Nishizono, Mahboob Chowdhury, Jeffrey Hodgkin, Paul A. Wiggins, and Roger C. Wiggins
- 1130 ERRATUM**