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

895 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 Hakroush, 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

Red star ★ indicates articles that are features in This Month’s Highlights.
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

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).

Toll-Like Receptor 4–Induced IL-22 Accelerates Kidney Regeneration
Onkar P. Kulkami, 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).

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

Renal Cortical Pyruvate Depletion during AKI
Richard A. Zager, Ali C.M. Johnson, and Kirsten Becker

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

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

Genetics of New-Onset Diabetes after Transplantation
Jennifer A. McCaughan, Amy Jayne McKnight, and Alexander P. Maxwell

Direct Action of Endothelin-1 on Podocytes Promotes Diabetic Glomerulosclerosis
* See related editorial by Chandrashekar and Juncos (pp. 869–871).

CLINICAL EPIDEMIOLOGY

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

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).

The Endothelin Antagonist Atrasentan Lowers Residual Albuminuria in Patients with Type 2 Diabetic Nephropathy
* See related editorial by Chandrashekar and Juncos (pp. 869–871).

Long-Term Effects of Spironolactone in Peritoneal Dialysis Patients
Yasuhiro Ito, Masashi Mizuno, Yasuhiro Suzuki, Hirofumi Tamai, Takeyuki Hiramoto, Hiroshi Ohashi, Isao Ito, Hirokata Kasuga, Masanobu Horie, Shoichi Maruyama, Yukio Yuzawa, Tatsuki 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

1118  Estimating Podocyte Number and Density Using a Single Histologic Section
Madhusudan Venkatapadhy, Su Wang, Yan Yang, Sanjeevkumar Patel, Larysa Wickman, Ryuzoh Nishizono, Mahboob Chowdhury, Jeffrey Hodgin, Paul A. Wiggins, and Roger C. Wiggins

1130  ERRATUM