This Month’s Highlights

UP FRONT MATTERS

Editorials
1339 Kindlin-2: A New Player in Renal Fibrogenesis
Raimund Hirschberg
• See related article by Wei et al. (pp. 1387–1398).

1340 Ultrasonic Stimulation of the Cholinergic Anti-Inflammatory Pathway for Renal Protection
Jean-Michel Hougardy, Claude Sais, and Alain Le Moine
• See related article by Gigliotti et al. (pp. 1451–1460).

1342 Galectin-3 and New-Onset CKD: Marker or Mediator?
Pietro Ravani and Brendan J. Barrett
• See related article by O’Seaghdha et al. (pp. 1470–1477).

1344 APOL1 and Progression of Nondiabetic Nephropathy
Nicholette D. Palmer and Barry I. Freedman
• See related article by Foster et al. (pp. 1484–1491).

Brief Reviews
1347 Human Kidney Cell Reprogramming: Applications for Disease Modeling and Personalized Medicine
Adam C. O’Neill and Sharon D. Ricardo

1357 The Pathogenesis of Lupus Nephritis
Maciej Lech and Hans-Joachim Anders

Clinical Commentary
1367 Has the Yearly Increase in the Renal Replacement Therapy Population Ended?
Steven Jay Rosansky and William F. Clark

BRIEF COMMUNICATIONS
1371 Estimating Renal Survival Using the ANCA-Associated GN Classification
Marc Hilhorst, Benjamin Wilde, Peter van Breda Vriesman, Pieter van Paassen, and Jan Willem Cohen Tervaert, for the Limburg Renal Registry

1376 Genomic Biomarkers Correlate with HLA-Identical Renal Transplant Tolerance
Joseph R. Leventhal, James M. Mathew, Daniel R. Salomon, Sunil M. Kurian, Manikam Suthanthiran, Anat Tambur, John Friedewald, Lorenzo Gallon, Jane Charette, Josh Levitsky, Yashpal Kanwar, Michael Abecassis, and Joshua Miller

Basic Research
1387 Kindlin-2 Mediates Activation of TGF-β/Smad Signaling and Renal Fibrosis
Xiaofan Wei, Yang Xia, Feng Li, Yan Tang, Jing Nie, Youhua Liu, Zhanmei Zhou, Hongquan Zhang, and Fan Fan Hou
• See related editorial by Hirschberg (pp. 1339–1340).

1399 Wnt4/β-Catenin Signaling in Medullary Kidney Myofibroblasts
Derek P. DiRocco, Akio Kobayashi, Makoto M. Taketo, Andrew P. McMahon, and Benjamin D. Humphreys

1413 Ouabain Protects against Shiga Toxin–Triggered Apoptosis by Reversing the Imbalance between Bax and Bcl-xL
Ievgeniia Burlaka, Xiao Li Liu, Johan Rebetz, Ida Arvidsson, Liping Yang, Hjalmar Brismar, Diana Karpman, and Anita Aperia

1424 Direct Transcriptional Reprogramming of Adult Cells to Embryonic Nephron Progenitors
Caroline E. Hendry, Jessica M. Vanslambrouck, Jessica Ineson, Norseha Suhaimi, Minoru Takasato, Fiona Rae, and Melissa H. Little

1435 Cdc42 Deficiency Causes Ciliary Abnormalities and Cystic Kidneys
Soo Young Choi, Maria F. Chacon-Heszele, Liwei Huang, Sarah McKenna, F. Perry Wilson, Xiaofeng Zuo, and Joshua H. Lipschutz

Red star ★ indicates articles that are features in This Month’s Highlights.
Ultrasound Prevents Renal Ischemia-Reperfusion Injury by Stimulating the Splenic Cholinergic Anti-Inflammatory Pathway
Joseph C. Gigliotti, Liping Huang, Hong Ye, Amandeep Bajwa, Kryt Chattrabhuti, Sangju Lee, Alexander L. Klibanov, Kambiz Kalantari, Diane L. Rosin, and Mark D. Okusa
See related editorial by Hougardy et al. (pp. 1340–1342).

Temporal Trends in Fracture Rates and Postdischarge Outcomes among Hemodialysis Patients
Anne C. Beaubrun, Ryan D. Kilpatrick, Janet K. Freburger, Brian D. Bradbury, Lily Wang, and M. Alan Brookhart

Elevated Galectin-3 Precedes the Development of CKD
Conall M. O'Seaghdha, Shih-Jen Hwang, Jennifer E. Ho, Ramachandran S. Vasan, Daniel Levy, and Caroline S. Fox
See related editorial by Ravani and Barrett (pp. 1342–1344).

Medical Costs of CKD in the Medicare Population
Amanda A. Honeycutt, Joel E. Segel, Xiaohui Zhuo, Thomas J. Hoerger, Kumiko Imai, and Desmond Williams

APOL1 Variants Associate with Increased Risk of CKD among African Americans
Meredith C. Foster, Josef Coresh, Myriam Fornage, Brad C. Astor, Morgan Grams, Nora Franceschini, Eric Boenwinkle, Rulan S. Parekh, and W.H. Linda Kao
See related editorial by Palmer and Freedman (pp. 1344–1346).

Associations of Frequency and Duration of Patient-Doctor Contact in Hemodialysis Facilities with Mortality
Takehiko Kawaguchi, Angelo Karaboyas, Bruce M. Robinson, Yun Li, Shunichi Fukuhara, Brian A. Bieber, Hugh C. Rayner, Vittorio E. Andreucci, Ronald L. Pisoni, Friedrich K. Port, Hal Morgenstern, Tadao Akizawa, and Rajiv Saran