This Month’s Highlights

UP FRONT MATTERS

Obituary
1161 The Bill Schwartz I Knew
Arnold S. Relman

Editorials
1162 Finding New Sea Legs for Urine Proteomics
Eric G. Neilson
See related article by Knepper et al. (pp. 1175–1178).

1162 Vascular Calcification: The Three-Hit Model
Sharon M. Moe
See related article by Westenfeld et al. (pp. 1264–1274).

1164 Illuminating Mitochondrial Function and Dysfunction using Multiphoton Technology
Joel M. Weinberg and Bruce A. Molitoris
See related article by Hall et al. (pp. 1293–1302).

1166 Splicing a Kinase and the Regulation of Salt Transport
David B. Mount
See related article by Glover et al. (pp. 1314–1322).

1168 How Long Can We Afford to Wait for Equity in the Renal Transplant Waiting List?
Keith C. Norris and Lawrence Y. Agodoa
See related article by Patzer et al. (pp. 1333–1340).

1170 Anti–IL-2 Receptor Antibodies versus Anti-Thymocyte Globulin for Induction Therapy in Kidney Transplantation
Didier Mandelbrot
See related article by Noël et al. (pp. 1385–1392).

1172 Complex Renal Traits: Role of Adrenergic Genetic Polymorphism
Maple M. Fung and Daniel T. O’Connor
See related article by Haase-Fielitz et al. (pp. 1393–1403).

Occasional Observation
1175 Common Sense Approaches to Urinary Biomarker Study Design
Mark A. Knepper
See related editorial by Neilson (p. 1162).

Brief Review
1179 The Mesangial Cell Revisited: No Cell Is an Island
Detlef Schlöndorff and Bernhard Banas

Special Articles
1188 2008 Homer W. Smith Award: Insights into the Pathogenesis of Polycystic Kidney Disease from Gene Discovery
Peter C. Harris

1199 Prediction, Progression, and Outcomes of Chronic Kidney Disease in Older Adults

Pathophysiology of the Renal Biopsy
1210 The Renal Lesions of Alport Syndrome
Laurence Heidet and Marie-Claire Gubler

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

1217 ★ Reduced Production of Creatinine Limits Its Use as Marker of Kidney Injury in Sepsis
Kent Doi, Peter S.T. Yuen, Christoph Eisner, Xuzhen Hu, Asada Leelahavanichkul, Jürgen Schnermann, and Robert A. Star

BASIC RESEARCH

1223 Loss of TIMP3 Enhances Interstitial Nephritis and Fibrosis
Zamaneh Kassiri, Gavin Y. Oudit, Vijay Kandalam, Ahmed Awad, Xiuhua Wang, Xiuhua Ziou, Nobuyo Maeda, Andrew M. Herzenberg, and James W. Scholey

1236 CKD Accelerates Development of Neointimal Hyperplasia in Arteriovenous Fistulas
Taku Kokubo, Noriyuki Ishikawa, Hisashi Uchida, Sara E. Chasnoff, Xun Xie, Suresh Mathew, Keith A. Hruska, and Eric T. Choi

1246 Thiosulfate Reduces Calcium Phosphate Nephrolithiasis
John R. Asplin, Susan E. Donahue, Christina Lindeman, Anne Michalenka, Kelly Laplante Strutz, and David A. Bushinsky

1254 ★ Ferritin Prevents Calcification and Osteoblastic Differentiation of Vascular Smooth Muscle Cells
Abolfazl Zarjou, Viktória Jeney, Paolo Arosio, Maura Poli, Péter Antal-Szalmás, Anupam Agarwal, György Balla, and József Balla

1264 Fetuin-A Protects against Atherosclerotic Calcification in CKD
Ralf Westenfeld, Cora Schäfer, Thilo Krüger, Christian Haarmann, Leon J. Schurgers, Chris Reutelingsperger, Ognen Ivanovski, Tilman Drueke, Ziad A. Massy, Markus Ketteler, Jürgen Floege, and Willi Jahnhen-Dechent

See related editorial by Moe (pp. 1162–1164).

1275 P2X7 Deficiency Attenuates Renal Injury in Experimental Glomerulonephritis

1282 ★ Invariant Natural Killer T Cells and TGF-β Attenuate Anti-GBM Glomerulonephritis
Laurent Mesnard, Alexandre D.C. Keller, Marie-Laure Michel, Sophie Vandermeersch, Cédric Rafat, Emmanuel Letavernier, Yves Tillet, Eric Rondeau, and Maria C. Leite-de-Moraes

1293 ★ Multiphoton Imaging Reveals Differences in Mitochondrial Function between Nephron Segments
Andrew M. Hall, Robert J. Unwin, Nadeene Parker, and Michael R. Duchen

See related editorial by Weinberg and Molitoris (pp. 1164–1166).

1303 Reduction of Renal Superoxide Dismutase in Progressive Diabetic Nephropathy
Hiroki Fujita, Hiromi Fujishima, Shinsuke Chida, Keiko Takahashi, Zhonghua Qi, Yukiko Kanetsuna, Matthew D. Breyer, Raymond C. Harris, Yuichiro Yamada, and Takamune Takahashi

1314 Renal and Brain Isoforms of WNK3 Have Opposite Effects on NCCT Expression
Mark Glover, Annie Mercier Zuber, and Kevin M. O’Shaughnessy

See related editorial by Mount (pp. 1166–1168).

1323 Functional TauT Protects Against Acute Kidney Injury
Xiaobin Han, Junming Yue, and Russell W. Chesney

CLINICAL EPIDEMIOLOGY

1333 ★ Neighborhood Poverty and Racial Disparities in Kidney Transplant Waitlisting
Rachel E. Patzer, Sandra Amaral, Haimanot Wasse, Nataliya Volkova, David Kleinbaum, and William M. McClellan

See related editorial by Norris and Agodoa (pp. 1168–1170).

1341 Association of CKD and Cancer Risk in Older People
Germaine Wong, Andrew Hayen, Jeremy R. Chapman, Angela C. Webster, Jie Jin Wang, Paul Mitchell, and Jonathan C. Craig

1351 “Nature versus Nurture” Study of Deceased-Donor Pairs in Kidney Transplantation
Daniel W. Louvar, Na Li, Jon Snyder, Yi Peng, Bertram L. Kasiske, and Ajay K. Israni
1359 TRAC Variants Associate with IgA Nephropathy

Ru Li, Chao Xue, Caixia Li, Tanqi Lou, Yu Tao, Youji Li, Weijun Huang, Jun Zhang, Joseph C. K. Leung, Man F. Lam, Tim J. Vyse, Kar N. Lai, Changyou Wu, and Yiming Wang

1368 Oxidized LDL Modulates Apoptosis of Regulatory T Cells in Patients with ESRD

Pascal Meier, Dela Golshayan, Edouard Blanc, Manuel Pascual, and Michel Burnier

1385 Daclizumab versus Antithymocyte Globulin in High-Immunological-Risk Renal Transplant Recipients

Christian Noël, Daniel Abramowicz, Dominique Durand, Georges Mourad, Philippe Lang, Michèle Kessler, Bernard Charpentier, Guy Touchard, François Berthoux, Pierre Merville, Nacera Ouali, Jean-Paul Squifflet, François Bayle, Karl Martin Wissing, and Marc Hazzan

See related editorial by Mandelbrot (pp. 1170–1171).

1393 Decreased Catecholamine Degradation Associates with Shock and Kidney Injury after Cardiac Surgery

Anja Haase-Fielitz, Michael Haase, Rinaldo Bellomo, Gavin Lambert, George Matalanis, David Story, Laurie Doolan, Brian Buxton, Geoff Gutteridge, Friedrich C. Luft, Wolf-Hagen Schunck, and Duska Dragun

See related editorial by Fung and O’Connor (pp. 1172–1174).

1404 ABCB1 Genotypes Predict Cyclosporine-Related Adverse Events and Kidney Allograft Outcome

Dario Cattaneo, Piero Ruggenenti, Sara Baldelli, Nicola Motterlini, Eliana Gotti, Silvio Sandrini, Maurizio Salvadori, Giuseppe Segoloni, Paolo Rigotti, Donato Donati, Norberto Perico, and Giuseppe Remuzzi, for the Mycophenolate Steroids Sparing (MYSS) Genetics Study Group