This Month’s Highlights

UP FRONT MATTERS

Editorials

455 Albuminuria, Wherefore Art Thou?
George Jarad and Jeffrey H. Miner
See related article by Russo et al. (pp. 489–494).

457 The Not-so-Sweet Side of Fructose
Mary E. Choi
See related article by Cirillo et al. (pp. 545–553).

459 Proteinuria and Epithelial-to-Mesenchymal Transition: The Role of Complement
Serena Bagnasco and Lorraine Racusen
See related article by Tang et al. (pp. 593–603).

460 Salivary Phosphorus Binding: A Novel Approach to Control Hyperphosphatemia
Garabed Eknoyan
See related article by Savica et al. (pp. 639–644).

462 Effect of Membrane Permeability on Survival of Hemodialysis Patients
Alfred K. Cheung and Tom Greene
See related article by Locatelli et al. (pp. 645–654).

Occasional Observation
465 The Case for Using Albuminuria in Staging Chronic Kidney Disease
Ron T. Gansevoort and Paul E. de Jong

Clinical Commentary
469 Modern Treatment of Amyloidosis: Unresolved Questions
Laura M. Dember

Brief Review
473 Lipid–Protein Interactions along the Slit Diaphragm of Podocytes
Bernhard Schermer and Thomas Benzing

479 Hemoglobin Variability in Anemia of Chronic Kidney Disease
Kamyar Kalantar-Zadeh and George R. Aronoff

BRIEF COMMUNICATION
489 Impaired Tubular Uptake Explains Albuminuria in Early Diabetic Nephropathy
Leileata M. Russo, Ruben M. Sandoval, Silvia B. Campos, Bruce A. Molitoris, Wayne D. Comper, and Dennis Brown
See related editorial by Jarad and Miner et al. (pp. 455–457).

BASIC RESEARCH
495 CD36 Regulates Oxidative Stress and Inflammation in Hypercholesterolemic CKD
Daryl M. Okamura, Subramaniam Pennathur, Katie Pasichnyk, Jesús M. López-Guisa, Sarah Collins, Maria Febbraio, Jay Heinecke, and Allison A. Eddy

506 Connexin Expression in Renin-Producing Cells
Lisa Kurtz, Ulrike Janssen-Bienhold, Armin Kurtz, and Charlotte Wagner

513 Epoxyeicosatrienoic Acid Activates BK Channels in the Cortical Collecting Duct
Peng Sun, Wen Liu, Dao-Hong Lin, Peng Yue, Rowena Kemp, Lisa M. Satlin, and Wen-Hui Wang

Red star ★ indicates articles that are features in This Month’s Highlights.
524 Soluble Thrombomodulin Protects Ischemic Kidneys
Asif A. Sharfuddin, Ruben M. Sandoval, David T. Berg, Grant E. McDougall, Silvia B. Campos, Carrie L. Phillips, Bryan E. Jones, Akanksha Gupta, Brian W. Grinnell, and Bruce A. Molitoris

535 Divergent Role of Donor Dendritic Cells in Rejection versus Tolerance of Allografts
Takuya Ueno, Katsunori Tanaka, Mollie Jurewicz, Takaya Murayama, Indira Guleria, Paolo Fiorina, Jesus C. Paez, Andrea Augello, Andrea Vergani, Masie Wong, R. Neal Smith, and Reza Abdi

545 Ketohexokinase-Dependent Metabolism of Fructose Induces Proinflammatory Mediators in Proximal Tubular Cells
Pietro Cirillo, Michael S. Gersch, Wei Mu, Philip M. Scherer, Kyung Mee Kim, Loreto Gesualdo, George N. Henderson, Richard J. Johnson, and Yuri Y. Sautin

554 PKC-β1 Mediates Glucose-Induced Akt Activation and TGF-β1 Upregulation in Mesangial Cells
Dongcheng Wu, Fangfang Peng, Baifang Zhang, Alistair J. Ingram, Darren J. Kelly, Richard E. Gilbert, Bo Gao, and Joan C. Krepinsky

567 HGF and BMP-7 Ameliorate High Glucose–Induced Epithelial-to-Mesenchymal Transition of Peritoneal Mesothelium
Min-A Yu, Kyung-Sook Shin, Jung Hye Kim, Yong-Il Kim, Soon Sup Chung, Sun-Hee Park, Yong-Lim Kim, and Duk-Hee Kang

582 Cyclooxygenase-2 Mediates Dialysate-Induced Alterations of the Peritoneal Membrane
Luiz S. Aroeira, Enrique Lara-Pezzi, Jesus Loureiro, Abelardo Aguilera, Marta Ramirez-Huesca, Guadalupe Gonzalez-Mateo, M. Luisa Perez-Lozano, Patricia Albar-Vizcaino, M-Auxiliadora Bajo, Gloria del Peso, Jose Antonio Sanchez-Tomero, Jose Antonio Jiménez-Hefferman, Rafael Selgas, and Manuel López-Cabrera

593 C3a Mediates Epithelial-to-Mesenchymal Transition in Proteinuric Nephropathy
Ziyong Tang, Bao Lu, Ellen Hatch, Steven H. Sacks, and Neil S. Sheerin

604 IL-6 and Serum Amyloid A Synergy Mediates Angiotensin II-Induced Muscle Wasting
Liping Zhang, Jie Du, Zhaoyong Hu, Guofeng Han, Patrice Delafontaine, Gabriela Garcia, and William E. Mitch

613 Low Serum Testosterone Increases Mortality Risk among Male Dialysis Patients
Juan Jesús Carrero, Abdul Rashid Qureshi, Paolo Parini, Stefan Arver, Bengt Lindholm, Peter Bárány, Olof Heimbürger, and Peter Stenvinkel

621 Age and Comorbidities Are Effect Modifiers of Gender Disparities in Renal Transplantation
Dorry L. Segev, Lauren M. Kucirka, Pooja C. Oberai, Rulan S. Parekh, L. Ebony Boulware, Neil R. Powe, and Robert A. Montgomery

629 New Equations to Estimate GFR in Children with CKD
George J. Schwartz, Alvaro Muñoz, Michael F. Schneider, Robert H. Mak, Frederick Kaskel, Bradley A. Warady, and Susan L. Furth

639 Salivary Phosphate-Binding Chewing Gum Reduces Hyperphosphatemia in Dialysis Patients
Vincenzo Savica, Lorenzo A. Caló, Paolo Monardo, Paul A. Davis, Antonio Granata, Domenico Santoro, Rodolfo Savica, Rosa Musolino, Maria Cristina Comelli, and Guido Bellinghieri

645 Effect of Membrane Permeability on Survival of Hemodialysis Patients
Francesco Locatelli, Alejandro Martin-Malo, Thierry Hannedouche, Alfredo Loureiro, Menelaos Papadimitriou, Volker Wizemann, Stefan H. Jacobson, Stanislaw Czekalski, Claudio Ronco, and Raymond Vanholder, for the Membrane Permeability Outcome (MPO) Study Group

655 Avosentan Reduces Albumin Excretion in Diabetics with Macroalbuminuria
René Wenzel, Thomas Littke, Susan Kuranoff, Christiane Jürgens, Heike Bruck, Eberhard Ritz, Thomas Philipp, and Anna Mitchell, for the SPP301 (Avosentan) Endothelin Antagonist Evaluation in Diabetic Nephropathy Study Investigators

665 Nocturnal Hemodialysis Improves Erythropoietin Responsiveness and Growth of Hematopoietic Stem Cells
Christopher T. Chan, Peter P. Liu, Sara Arab, Nazir Jamal, and Hans A Messner

672 Creatinine Kinetics and the Definition of Acute Kidney Injury
Sushrut S. Waikar and Joseph V. Bonventre