

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1951 Targeting Plasma Cells with Proteasome Inhibitors: Principles from Primates**
E. Steve Woodle, Simon Tremblay, and James Driscoll
• See related article by Kwun et al. (pp. 1991–1996).
- 1953 ILC2: There's a New Cell in Town**
Yuan Min Wang, Mahnoor Bakhtiar, and Stephen I. Alexander
• See related article by Riedel et al. (pp. 2068–2080).
- 1955 Uromodulin in the Bloodstream: Old Wine in a New Wineskin**
Daniel Kraus and Christoph Wanner
• See related articles by Delgado et al. (pp. 2201–2210).
- 1957 Balancing Anticoagulation Decisions in Patients on Dialysis with Atrial Fibrillation**
Eli N. Deal and Jerrica E. Shuster
• See related article by Mavrakanas et al. (pp. 2241–2248).
- Brief Reviews**
- 1960 Cell Therapy in Kidney Transplantation: Focus on Regulatory T Cells**
Nicholas A. Zwing and Joseph R. Leventhal
- 1973 The Angiotensin-Tie2 Signaling Axis in Systemic Inflammation**
Samir M. Parikh
- Special Article**
- 1983 Education in Nephrology Fellowship: A Survey-Based Needs Assessment**
Robert W. Rope, Kurtis A. Pivert, Mark G. Parker, Stephen M. Sozio, and Sylvia Berekenyi Merell

BRIEF COMMUNICATIONS

- 1991 Humoral Compensation after Bortezomib Treatment of Allosensitized Recipients**
Jean Kwun, Christopher Burghuber, Miriam Manook, Neal Iwakoshi, Adriana Gibby, Jung Joo Hong, and Stuart Knechtle
• See related editorial by Woodle et al. (pp. 1951–1953).
- 1998 Pharmacologic Blockade of $\alpha\text{v}\beta\text{1}$ Integrin Ameliorates Renal Failure and Fibrosis In Vivo**
Yongen Chang, Wei Ling Lau, Hyunil Jo, Kazuyuki Tsujino, Leslie Gewin, Nilgun Isik Reed, Amha Atakilit, Ane Claudia Fernandes Nunes, William F. DeGrado, and Dean Sheppard

BASIC RESEARCH

- 2007 Inhibition of Reticulon-1A-Mediated Endoplasmic Reticulum Stress in Early AKI Attenuates Renal Fibrosis Development**
Ying Fan, Wenzhen Xiao, Kyung Lee, Fadi Salem, Jiejun Wen, Li He, Jing Zhang, Yang Fei, Dongsheng Cheng, Hongda Bao, Yumei Liu, Fujun Lin, Gengru Jiang, Zhiyong Guo, Niansong Wang, and John Cijiang He
- 2022 IL-36 Signaling Facilitates Activation of the NLRP3 Inflammasome and IL-23/IL-17 Axis in Renal Inflammation and Fibrosis**
Hsi-Hua Chi, Kuo-Feng Hua, Yu-Chuan Lin, Ching-Liang Chu, Chih-Yu Hsieh, Yu-Juei Hsu, Shuk-Man Ka, Yu-Ling Tsai, Feng-Cheng Liu, and Ann Chen
- 2038 The NLRP3 Inflammasome Has a Critical Role in Peritoneal Dialysis-Related Peritonitis**
Nicolas Hautem, Johann Morelle, Amadou Sow, Cyril Corbet, Olivier Feron, Eric Goffin, François Huaux, and Olivier Devuyst
- 2053 Macrophage-to-Myofibroblast Transition Contributes to Interstitial Fibrosis in Chronic Renal Allograft Injury**
Ying-Ying Wang, Hong Jiang, Jun Pan, Xiao-Ru Huang, Yu-Cheng Wang, Hong-Feng Huang, Ka-Fai To, David J. Nikolic-Paterson, Hui-Yao Lan, and Jiang-Hua Chen

- 2068 IL-33–Mediated Expansion of Type 2 Innate Lymphoid Cells Protects from Progressive Glomerulosclerosis**
Jan-Hendrik Riedel, Martina Becker, Kerstin Kopp, Mathis Düster, Silke R. Brix, Catherine Meyer-Schwesinger, Luis A. Kluth, Ann-Christin Gnirck, Madena Attar, Sonja Krohn, Boris Fehse, Rolf A.K. Stahl, Ulf Panzer, and Jan-Eric Turner
• See related editorial by Wang et al. (pp. 1953–1955).
- 2081 ★Hydrodynamic Isotonic Fluid Delivery Ameliorates Moderate-to-Severe Ischemia-Reperfusion Injury in Rat Kidneys**
Jason A. Collett, Peter R. Corridon, Purvi Mehrotra, Alexander L. Kolb, George J. Rhodes, Caroline A. Miller, Bruce A. Molitoris, Janice G. Pennington, Ruben M. Sandoval, Simon J. Atkinson, Silvia B. Campos-Bilderback, David P. Basile, and Robert L. Bacallao
- 2093 Pals1 Haploinsufficiency Results in Proteinuria and Cyst Formation**
Thomas Weide, Beate Vollenbröcker, Ulf Schulze, Ivona Djuric, Maria Edeling, Jakob Bonse, Florian Hochapfel, Olga Panichkina, Dirk-Oliver Wennmann, Britta George, Seonhee Kim, Christoph Daniel, Jochen Seggewis, Kerstin Amann, Wilhelm Kriz, Michael P. Krahn, and Hermann Pavenstädt
- 2108 Quantitative Three-Dimensional Tissue Cytometry to Study Kidney Tissue and Resident Immune Cells**
Seth Winfree, Shehnaz Khan, Radmila Micanovic, Michael T. Eadon, Katherine J. Kelly, Timothy A. Sutton, Carrie L. Phillips, Kenneth W. Dunn, and Tarek M. El-Achkar
- 2119 Deficiency of the Angiotensinase Aminopeptidase A Increases Susceptibility to Glomerular Injury**
Juan Carlos Q. Velez, Ehtesham Arif, Jessalyn Rodgers, Megan P. Hicks, John M. Arthur, Deepak Nihalani, Evelyn T. Bruner, Milos N. Budisavljevic, Carl Atkinson, Wayne R. Fitzgibbon, and Michael G. Janech
- 2133 A Novel Inhibitor of Homeodomain Interacting Protein Kinase 2 Mitigates Kidney Fibrosis through Inhibition of the TGF- β 1/Smad3 Pathway**
Ruijie Liu, Bhaskar Das, Wenzhen Xiao, Zhengzhe Li, Huilin Li, Kyung Lee, and John Cijiang He
- 2144 ★Targeting mTOR Signaling Can Prevent the Progression of FSGS**
Stefan Zschiedrich, Tillmann Bork, Wei Liang, Nicola Wanner, Kristina Eulenbruch, Stefan Munder, Björn Hartleben, Oliver Kretz, Simon Gerber, Matias Simons, Amandine Viau, Martine Burtin, Changli Wei, Jochen Reiser, Nadja Herbach, Maria-Pia Rastaldi, Clemens D Cohen, Pierre-Louis Tharoux, Fabiola Terzi, Gerd Walz, Markus Gödel, and Tobias B Huber
- 2158 ★Galactosylation of IgA1 Is Associated with Common Variation in C1GALT1**
Daniel P. Gale, Karen Molyneux, David Wimbury, Patricia Higgins, Adam P. Levine, Ben Caplin, Anna Ferlin, Peiran Yin, Christopher P. Nelson, Horia Stanescu, Nilesh J. Samani, Robert Kleta, Xueqing Yu, and Jonathan Barratt
- CLINICAL EPIDEMIOLOGY**
- 2167 ★Global Cardiovascular and Renal Outcomes of Reduced GFR**
Global Burden of Disease 2013 GFR Collaborators, CKD Prognosis Consortium, and Global Burden of Disease Genitourinary Expert Group
- 2180 Sickle Cell Trait and the Risk of ESRD in Blacks**
Rakhi P. Naik, Marguerite R. Irvin, Suzanne Judd, Orlando M. Gutiérrez, Neil A. Zakai, Vimal K. Derebail, Carmen Peralta, Michael R. Lewis, Degui Zhi, Donna Arnett, William McClellan, James G. Wilson, Alexander P. Reiner, Jeffrey B. Kopp, Cheryl A. Winkler, and Mary Cushman
- 2188 Comparing Outcomes between Antibody Induction Therapies in Kidney Transplantation**
Neel Koyawala, Jeffrey H. Silber, Paul R. Rosenbaum, Wei Wang, Alexander S. Hill, Joseph G. Reiter, Bijan A. Niknam, Orit Even-Shoshan, Roy D. Bloom, Deirdre Sawinski, Susanna Nazarian, Jennifer Trofe-Clark, Mary Ann Lim, Jesse D. Schold, and Peter P. Reese
- 2201 Serum Uromodulin and Mortality Risk in Patients Undergoing Coronary Angiography**
Graciela E. Delgado, Marcus E. Kleber, Hubert Schamagl, Bernhard K. Krämer, Winfried März, and Jürgen E. Scherberich
• See related editorial by Kraus et al. (pp. 1955–1957).
- CLINICAL RESEARCH**
- 2211 ★Admixture Mapping Identifies an Amerindian Ancestry Locus Associated with Albuminuria in Hispanics in the United States**
Lisa A. Brown, Tamar Sofer, Adrienne M. Stilp, Leslie J. Baier, Holly J. Kramer, Ivica Masindova, Daniel Levy, Robert L. Hanson, Ashley E. Moncrieff, Susan Redline, Sylvia E. Rosas, James P. Lash, Jianwen Cai, Cathy C. Laurie, Sharon Browning, Timothy Thornton, and Nora Franceschini

2221 Cell-Free DNA and Active Rejection in Kidney Allografts
Roy D. Bloom, Jonathan S. Bromberg, Emilio D. Poggio, Suphamai Bunnapradist, Anthony J. Langone, Puneet Sood, Arthur J. Matas, Shikha Mehta, Roslyn B. Mannon, Asif Sharfuddin, Bernard Fischbach, Mohanram Narayanan, Stanley C. Jordan, David Cohen, Matthew R. Weir, David Hiller, Preethi Prasad, Robert N. Woodward, Marica Grskovic, John J. Sninsky, James P. Yee, and Daniel C. Brennan, for the Circulating Donor-Derived Cell-Free DNA in Blood for Diagnosing Active Rejection in Kidney Transplant Recipients (DART) Study Investigators

2233 ★Growth Differentiation Factor-15 and Risk of CKD Progression
Viji Nair, Cassianne Robinson-Cohen, Michelle R. Smith, Keith A. Bellovich, Zeenat Yousuf Bhat,

Maria Bobadilla, Frank Brosius, Ian H. de Boer, Laurent Essieux, Ivan Formentini, Crystal A. Gadegbeku, Debbie Gipson, Jennifer Hawkins, Jonathan Himmelfarb, Bryan Kestenbaum, Matthias Kretzler, Maria Chiara Magnone, Kalyani Perumal, Susan Steigerwalt, Wenjun Ju, and Nisha Bansal

2241 Apixaban Pharmacokinetics at Steady State in Hemodialysis Patients

Thomas A. Mavranakas, Caroline F. Samer, Sharon J. Nessim, Gershon Frisch, and Mark L. Lipman

• See related editorial by Deal et al. (pp. 1957–1959).

2249 ERRATA