

## This Month's Highlights

## UP FRONT MATTERS

### Editorials

- 893 Tubular MST1/2 Deletion and Renal Fibrosis**  
Monica Chang-Panesso  
• See related article by Xu et al. (pp. 946–961).
- 894 Biomarkers of CKD in Children**  
Ziyad Al-Aly and Benjamin Bowe  
• See related article by Greenberg et al. (pp. 1067–1077).
- 896 The Value of Intravenous Iron: Beyond the Cave of Speculation**  
Daniel W. Coyne and Steven Fishbane  
• See related article by Macdougall et al. (pp. 1118–1127).

### Reviews

- 898 Fructose Production and Metabolism in the Kidney**  
Takahiko Nakagawa, Richard J. Johnson, Ana Andres-Hernando, Carlos Roncal-Jimenez, Laura G. Sanchez-Lozada, Dean R. Tolan, and Miguel A. Lanasa
- 907 Role of Impaired Nutrient and Oxygen Deprivation Signaling and Deficient Autophagic Flux in Diabetic CKD Development: Implications for Understanding the Effects of Sodium-Glucose Cotransporter 2-Inhibitors**  
Milton Packer

## RAPID COMMUNICATION

- 921 In Vivo Assessment of Size-Selective Glomerular Sieving in Transplanted Human Induced Pluripotent Stem Cell-Derived Kidney Organoids**  
Cathelijne W. van den Berg, Angela Koudijs, Laila Ritsma, and Ton J. Rabelink

## BASIC RESEARCH

- 931 ★Atorvastatin Reduces In Vivo Fibrin Deposition and Macrophage Accumulation, and Improves Primary Patency Duration and Maturation of Murine Arteriovenous Fistula**  
Jie Cui, Chase W. Kessinger, Harkamal S. Jhajj, Madeleine S. Grau, Sanjay Misra, Peter Libby, Jason R. McCarthy, and Farouc A. Jaffer

- 946 Tubule-Specific Mst1/2 Deficiency Induces CKD via YAP and Non-YAP Mechanisms**  
Chunhua Xu, Li Wang, Yu Zhang, Wenling Li, Jinhong Li, Yang Wang, Chenling Meng, Jinzhong Qin, Zhi-Hua Zheng, Hui-Yao Lan, Kingston King-Lun Mak, Yu Huang, and Yin Xia  
• See related editorial by Chang-Panesso (pp. 893–894).
- 962 Use of Human Induced Pluripotent Stem Cells and Kidney Organoids To Develop a Cysteamine/mTOR Inhibition Combination Therapy for Cystinosis**  
Jennifer A. Hollywood, Aneta Przepiorski, Randall F. D'Souza, Sreevalsan Sreebhavan, Ernst J. Wolvetang, Patrick T. Harrison, Alan J. Davidson, and Teresa M. Holm
- 983 ★Serpina2 Regulates Immune Response in Kidney Injury and Aging**  
Payel Sen, Alexandra Helmke, Chieh Ming Liao, Inga Sörensen-Zender, Song Rong, Jan-Hinrich Bräsen, Anette Melk, Hermann Haller, Sibylle von Vietinghoff, and Roland Schmitt
- 996 ARHGEF7 ( $\beta$ -PIX) Is Required for the Maintenance of Podocyte Architecture and Glomerular Function**  
Jun Matsuda, Mirela Maier, Lamine Aoudjit, Cindy Baldwin, and Tomoko Takano
- 1009 Interaction between Epithelial Sodium Channel  $\gamma$ -Subunit and Claudin-8 Modulates Paracellular Sodium Permeability in Renal Collecting Duct**  
Ali Sassi, Yubao Wang, Alexandra Chassot, Olga Komarynets, Isabelle Roth, Valérie Olivier, Gilles Crambert, Eva Dizin, Emilie Boscardin, Edith Hummler, and Eric Feraille
- 1024 Exocyst Genes Are Essential for Recycling Membrane Proteins and Maintaining Slit Diaphragm in *Drosophila* Nephrocytes**  
Pei Wen, Fujian Zhang, Yulong Fu, Jun-yi Zhu, and Zhe Han
- 1035 Tubular STAT3 Limits Renal Inflammation in Autosomal Dominant Polycystic Kidney Disease**  
Amandine Viau, Maroua Baaziz, Amandine Aka, Manal Mazloun, Clément Nguyen, E. Wolfgang Kuehn, Fabiola Terzi, and Frank Bienaimé

- 1050 ★ **Protein Kinase C- $\delta$  Mediates Kidney Tubular Injury in Cold Storage–Associated Kidney Transplantation**  
Jiefu Zhu, Gang Zhang, Zhixia Song, Xiaohong Xiang, Shaoqun Shu, Zhiwen Liu, Danyi Yang, Qingqing Wei, and Zheng Dong

### CLINICAL RESEARCH

- 1067 ★ **Plasma Biomarkers of Tubular Injury and Inflammation Are Associated with CKD Progression in Children**  
Jason H. Greenberg, Alison G. Abraham, Yunwen Xu, Jeffrey R. Schelling, Harold I. Feldman, Venkata S. Sabbiseti, Mariana Cardenas Gonzalez, Steven Coca, Sarah J. Schrauben, Sushrut S. Waikar, Vasana S. Ramachandran, Michael G. Shlipak, Bradley Warady, Paul L. Kimmel, Joseph V. Bonventre, Michelle Denburg, Chirag R. Parikh, and Susan Furth, on behalf of the CKD Biomarkers Consortium
- See related editorial by Al-Aly and Bowe (pp. 894–896).

- 1078 **Effect of Low-Sodium versus Conventional Sodium Dialysate on Left Ventricular Mass in Home and Self-Care Satellite Facility Hemodialysis Patients: A Randomized Clinical Trial**  
Mark R. Marshall, Alain C. Vandal, Janak R. de Zoysa, Ruvina S. Gabriel, Imad A. Haloob, Christopher J. Hood, John H. Irvine, Philip J. Matheson, David O.R. McGregor, Kannaiyan S. Rabindranath, John B.W. Schollum, David J. Semple, Zhengxiu Xie, Tian Min Ma, Rose Sisk, and Joanna L. Dunlop

- 1092 **Chitotriosidase as a Novel Biomarker for Therapeutic Monitoring of Nephropathic Cystinosis**  
Koenraad R.P. Veys, Mohamed A. Elmonem, Maria Van Dyck, Mirian C. Janssen, Elisabeth A.M. Cornelissen, Katharina Hohenfellner, Giusi Prencipe, Lambertus P. van den Heuvel, and Elena Levtchenko

- 1107 **A Simple Clinical Tool for Stratifying Risk of Clinically Significant CKD after Nephrectomy: Development and Multinational Validation**  
Robert J. Ellis, Sharon J. Del Vecchio, Kevin M.J. Gallagher, Danielle N. Aliano, Neil Barber, Damien M. Bolton, Etienne T.S. Chew, Jeff S. Coombes, Michael D. Coory, Ian D. Davis, James F. Donaldson, Ross S. Francis, Graham G. Giles, Glenda C. Gobe, Carmel M. Hawley, David W. Johnson, Alexander Laird, Steve Leung, Manar Malki, David J.T. Marco, Alan S. McNeill, Rachel E. Neale, Keng L. Ng, Simon Phipps, Grant D. Stewart, Victoria M. White, Simon T. Wood, and Susan J. Jordan

- 1118 ★ **Intravenous Iron Dosing and Infection Risk in Patients on Hemodialysis: A Prespecified Secondary Analysis of the PIVOTAL Trial**  
Iain C. Macdougall, Sunil Bhandari, Claire White, Stefan D. Anker, Kenneth Farrington, Philip A. Kalra, Patrick B. Mark, John J. V. McMurray, Chante Reid, Michele Robertson, Charles R.V. Tomson, David C. Wheeler, Christopher G. Winearls, and Ian Ford, on behalf of the PIVOTAL Investigators and Committees
- See related editorial by Coyne and Fishbane (pp. 896–897).

- 1128 ★ **Renal, Cardiovascular, and Safety Outcomes of Canagliflozin by Baseline Kidney Function: A Secondary Analysis of the CREDENCE Randomized Trial**  
Meg J. Jardine, Zien Zhou, Kenneth W. Mahaffey, Megumi Oshima, Rajiv Agarwal, George Bakris, Harpreet S. Bajaj, Scott Bull, Christopher P. Cannon, David M. Charytan, Dick de Zeeuw, Gian Luca Di Tanna, Tom Greene, Hidde J.L. Heerspink, Adeera Levin, Bruce Neal, Carol Pollock, Rose Qiu, Tao Sun, David C. Wheeler, Hong Zhang, Bernard Zinman, Norman Rosenthal, and Vlado Perkovic, on behalf of the CREDENCE Study Investigators

- 1140 **ERRATUM**