

## This Month's Highlights

## UP FRONT MATTERS

### Editorials

- 183 **Producing Purer Podocytes**  
Benjamin S. Freedman  
• See related special article by Yoshimura et al. (pp.304–321).
- 184 **Readmissions Metrics in Hemodialysis: Do the Specifics Matter?**  
Taimur Dad and Daniel E. Weiner  
• See related article by Lin et al. (pp. 323–335).
- 187 **Therapeutic Inhibition of VEGF Signaling and Associated Nephrotoxicities**  
Chelsea C. Estrada, Alejandro Maldonado, and Sandeep K. Mallipattu
- BASIC RESEARCH**
- 201 ★ **Whole-Exome Sequencing Enables a Precision Medicine Approach for Kidney Transplant Recipients**  
Nina Mann, Daniela A. Braun, Kassandra Amann, Weizhen Tan, Shirlee Shril, Dervla M. Connaughton, Makiko Nakayama, Ronen Schneider, Thomas M. Kitzler, Amelie T. van der Ven, Jing Chen, Hadas Ityel, Asaf Vivante, Amar J. Majmundar, Ankana Daga, Jillian K. Warejko, Svyetlana Lovric, Shazia Ashraf, Tilman Jobst-Schwan, Eugen Widmeier, Hannah Hugo, Shrikant M. Mane, Leslie Spaneas, Michael J.G. Somers, Michael A. Ferguson, Avram Z. Traum, Deborah R. Stein, Michelle A. Baum, Ghaleb H. Daouk, Richard P. Lifton, Shannon Manzi, Khashayar Vakili, Heung Bae Kim, Nancy M. Rodig, and Friedhelm Hildebrandt
- 216 **Kir4.1/Kir5.1 Activity Is Essential for Dietary Sodium Intake-Induced Modulation of Na-Cl Cotransporter**  
Peng Wu, Zhong-Xiuzi Gao, Xiao-Tong Su, Ming-Xiao Wang, Wen-Hui Wang, and Dao-Hong Lin

- 228 **Lipid Peroxidation Drives Renal Cyst Growth In Vitro through Activation of TMEM16A**  
Rainer Schreiber, Björn Buchholz, Andre Kraus, Gunnar Schley, Julia Scholz, Jirapom Ousingawat, and Karl Kunzelmann
- 244 ★ **IL-34-Dependent Intrarenal and Systemic Mechanisms Promote Lupus Nephritis in MRL-Fas<sup>lpr</sup> Mice**  
Yukihiro Wada, Hilda M. Gonzalez-Sanchez, Julia Weinmann-Menke, Yasunori Iwata, Amrendra K. Ajay, Myriam Meineck, and Vicki R. Kelley
- 261 **Hepatocyte Growth Factor-Secreting Mesothelial Cell Sheets Suppress Progressive Fibrosis in a Rat Model of CKD**  
Masatoshi Oka, Sachiko Sekiya, Ryoichi Sakiyama, Tatsuya Shimizu, and Kosaku Nitta
- 277 **Activation and Proliferation of PD-1<sup>+</sup> Kidney Double-Negative T Cells Is Dependent on Nonclassical MHC Proteins and IL-2**  
Mohanraj Sadasivam, Sanjeev Noel, Sul A. Lee, Jing Gong, Mohamad E. Allaf, Phillip Pierorazio, Hamid Rabb, and Abdel Rahim A. Hamad
- 293 **New Insights into the Mechanism of NO<sub>3</sub><sup>-</sup> Selectivity in the Human Kidney Chloride Channel ClC-Ka and the CLC Protein Family**  
Laura Lagostena, Giovanni Zifarelli, and Alessandra Picollo
- 304 ★ **Manipulation of Nephron-Patterning Signals Enables Selective Induction of Podocytes from Human Pluripotent Stem Cells**  
Yasuhiro Yoshimura, Atsuhiko Taguchi, Shunsuke Tanigawa, Junji Yatsuda, Tomomi Kamba, Satoru Takahashi, Hidetake Kurihara, Masashi Mukoyama, and Ryuichi Nishinakamura  
• See related editorial by Freedman (pp. 183–184).
- CLINICAL EPIDEMIOLOGY**
- 323 **Prior Hospitalization Burden and the Relatedness of 30-Day Readmissions in Patients Receiving Hemodialysis**  
Eugene Lin, Jay Bhattacharya, and Glenn M. Chertow  
• See related editorial by Dad et al. (pp. 184–186).

**336 ★Frailty and Changes in Cognitive Function after Kidney Transplantation**

Nadia M. Chu, Alden L. Gross, Ashton A. Shaffer, Christine E. Haugen, Silas P. Norman, Qian-Li Xue, A. Richey Sharrett, Michelle C. Carlson, Karen Bandeen-Roche, Dorry L. Segev, and Mara A. McAdams-DeMarco

**346 ★Excess Deaths Attributable to Influenza-Like Illness in the ESRD Population**

David T. Gilbertson, Kenneth J. Rothman, Glenn M. Chertow, Brian D. Bradbury, M. Alan Brookhart, Jiannong Liu, Wolfgang C. Winkelmayr, Til Stürmer,

Keri L. Monda, Charles A. Herzog, Akhtar Ashfaq, Allan J. Collins, and James B. Wetmore

**CLINICAL RESEARCH**

**355 ★A Randomized Trial of Zoledronic Acid to Prevent Bone Loss in the First Year after Kidney Transplantation**

Igor Denizarde Bacelar Marques, Maria Júlia Correia Lima Nepomuceno Araújo, Fabiana Giorgetti Graciolli, Luciene Machado dos Reis, Rosa Maria R. Pereira, Jackeline C. Alvarenga, Melani Ribeiro Custódio, Vanda Jorgetti, Rosilene Motta Elias, Rosa Maria Affonso Moysés, and Elias David-Neto