

This Month's Highlights

UP FRONT MATTERS

Editorials

- 259 **Animal Model of Pregnancy after Acute Kidney Injury Mirrors the Human Observations**
Jessica Sheehan Tangren and Ravi Thadhani
• See related article by Gillis et al. (pp. 375–384).
- 260 **The Road Ahead for Research on Air Pollution and Kidney Disease**
Ziyad Al-Aly and Benjamin Bowe
• See related article by Li et al. (pp. 448–458).
- 262 **Missing Self and DSA—Synergy of Two NK Cell Activation Pathways in Kidney Transplantation**
Luis G. Hidalgo
• See related article by Koenig et al. (pp. 479–494).

Perspective

- 265 **Ensuring the Equitable Advancement of American Kidney Health—the Need to Account for Socioeconomic Disparities in the ESRD Treatment Choices Model**
Yuvaram N.V. Reddy, Sri Lekha Tummalapalli, and Mallika L. Mendu

Reviews

- 268 **New 'Antigens' in Membranous Nephropathy**
Sanjeev Sethi
- 279 **The Mineralocorticoid Receptor in Salt-Sensitive Hypertension and Renal Injury**
Nobuhiro Ayuzawa and Toshiro Fujita

BASIC RESEARCH

- 291 **Kidney Single-cell Transcriptomes Predict Spatial Corticomedullary Gene Expression and Tissue Osmolality Gradients**
Christian Hinze, Nikos Karaiskos, Anastasiya Boltengagen, Katharina Walentin, Klea Redo, Nina Himmerkus, Markus Bleich, S. Steven Potter, Andrew S. Potter, Kai-Uwe Eckardt, Christine Kocks, Nikolaus Rajewsky, and Kai M. Schmidt-Ott

- 307 **Dysregulated Dynein-Mediated Trafficking of Nephrin Causes INF2-related Podocytopathy**
Hua Sun, Chandra Perez-Gill, Johannes S Schlöndorff, Balajikarthick Subramanian, and Martin R. Pollak
- 323 **Renal AAV2-Mediated Overexpression of Long Non-Coding RNA H19 Attenuates Ischemic Acute Kidney Injury Through Sponging of microRNA-30a-5p**
George Haddad, Malte Kölling, Urs A. Wegmann, Angela Dettling, Harald Seeger, Roland Schmitt, Inga Soerensen-Zender, Hermann Haller, Andreas D. Kistler, Anne Dueck, Stefan Engelhardt, Thomas Thum, Thomas F. Mueller, Rudolf P. Wüthrich, and Johan M. Lorenzen
- 342 **★Changes in NAD and Lipid Metabolism Drive Acidosis-Induced Acute Kidney Injury**
Milica Bugarski, Susan Ghazi, Marcello Polesel, Joana R. Martins, and Andrew M. Hall
- 357 **TrkC Is Essential for Nephron Function and Trans-Activates Igf1R Signaling**
Carolin Lepa, Sascha Hoppe, Antje Stöber, Boris V. Skryabin, Laura Katharina Sievers, Barbara Heitplatz, Giuliano Ciarimboli, Ute Neugebauer, Maja T. Lindenmeyer, Clemens D. Cohen, Hannes C.A. Drexler, Peter Boor, Thomas Weide, Hermann Pavenstädt, and Britta George
- 375 **★Adverse Maternal and Fetal Outcomes in a Novel Experimental Model of Pregnancy after Recovery from Renal Ischemia-Reperfusion Injury**
Ellen E. Gillis, Michael W. Brands, and Jennifer C. Sullivan
• See related editorial by Tangren and Thadhani (pp. 259–260).

CLINICAL EPIDEMIOLOGY

- 385 **Incidence, Characteristics, and Outcome of COVID-19 in Adults on Kidney Replacement Therapy: A Regionwide Registry Study**
Johan De Meester, Dirk De Bacquer, Maarten Naesens, Bjorn Meijers, Marie M. Couttenye, and An S. De Vriese, for the NBNV Kidney Registry Group

- 397 ★ **Assessment of the Utility of Kidney Histology as a Basis for Discarding Organs in the United States: A Comparison of International Transplant Practices and Outcomes**
Peter P. Reese, Olivier Aubert, Maarten Naesens, Edmund Huang, Vishnu Potluri, Dirk Kuypers, Antoine Bouquegneau, Gillian Divard, Marc Raynaud, Yassine Bouatou, Ashley Vo, Denis Glotz, Christophe Legendre, Carmen Lefaucheur, Stanley Jordan, Jean-Philippe Empana, Xavier Jouven, and Alexandre Loupy
- 411 **Inflammatory Bowel Disease Is More Common in Patients with IgA Nephropathy and Predicts Progression of ESKD: A Swedish Population-Based Cohort Study**
Johanna Rehnberg, Adina Symreng, Jonas F. Ludvigsson, and Louise Emilsson
- 424 **Stopping Renin-Angiotensin System Inhibitors in Patients with Advanced CKD and Risk of Adverse Outcomes: A Nationwide Study**
Edouard L. Fu, Marie Evans, Catherine M. Clase, Laurie A. Tomlinson, Merel van Diepen, Friedo W. Dekker, and Juan J. Carrero
- 436 **Quantifying Duration of Proteinuria Remission and Association with Clinical Outcome in IgA Nephropathy**
Mark Canney, Sean J. Barbour, Yuyan Zheng, Rosanna Coppo, Hong Zhang, Zhi-Hong Liu, Keiichi Matsuzaki, Yusuke Suzuki, Ritsuko Katafuchi, Heather N. Reich, and Daniel Cattran, for the International IgA Nephropathy Network
- 448 ★ **Long-Term Exposure to Ambient PM_{2.5} and Increased Risk of CKD Prevalence in China**
Guoxing Li, Jing Huang, Jinwei Wang, Minghui Zhao, Yang Liu, Xinbiao Guo, Shaowei Wu, and Luxia Zhang
• See related editorial by Al-Aly and Bowe (pp. 260–262).
- CLINICAL RESEARCH**
- 459 **Prediction of Kidney Drug Clearance: A Comparison of Tubular Secretory Clearance and Glomerular Filtration Rate**
Yan Chen, Leila R. Zelnick, Andrew N. Hoofnagle, Catherine K. Yeung, Laura M. Shireman, Brian Phillips, Calder C. Brauchla, Ian de Boer, Linda Manahan, Susan R. Heckbert, Jonathan Himmelfarb, and Bryan R. Kestenbaum
- 469 ★ **A Randomized Trial of Strategies Using Darbepoetin Alfa To Avoid Transfusions in CKD**
Robert Toto, Jeffrey Petersen, Jeffrey S. Berns, Eldrin Foster Lewis, Qui Tran, and Matthew R. Weir
- 479 ★ **Missing Self-Induced Activation of NK Cells Combines with Non-Complement-Fixing Donor-Specific Antibodies to Accelerate Kidney Transplant Loss in Chronic Antibody-Mediated Rejection**
Alice Koenig, Sarah Mezaache, Jasper Callemeyn, Thomas Barba, Virginie Mathias, Antoine Sicard, Béatrice Charreau, Maud Rabeyrin, Frédérique Dijoud, Cécile Picard, Vannary Meas-Yedid, Jean-Christophe Olivo-Marin, Emmanuel Morelon, Maarten Naesens, Valérie Dubois, and Olivier Thauinat
• See related editorial by Hidalgo (pp. 262–264).
- 495 **Childhood Cancer and the Risk of ESKD**
Ronit Calderon-Margalit, Oren Pleniceanu, Dorit Tzur, Michal Stern-Zimmer, Arnon Afek, Tomer Erlich, Guy Verhovsky, Lital Keinan-Boker, Karl Skorecki, Gilad Twig, and Asaf Vivante
- 502 **Steering Transplant Immunosuppression by Measuring Virus-Specific T Cell Levels: The Randomized, Controlled IVIST Trial**
Thurid Ahlenstiel-Grunow, Xiaofei Liu, Raphael Schild, Jun Oh, Christina Taylan, Lutz T. Weber, Hagen Staude, Murielle Verboom, Christoph Schröder, Ruxandra Sabau, Anika Großhennig, and Lars Pape
- LETTERS TO THE EDITOR**
- 517 **Can Total Nephron Number Predict Progressive CKD after Radical Nephrectomy?**
Jean Seibel, Jean-Michel Rebibou, and Mathieu Legendre
• See related reply by Denic and Rule (pp. 517–518), and original article by Rule et al. in Vol. 31, Iss. 11 (pp. 2642–2652).
- 517 **Authors' Reply**
Aleksandar Denic and Andrew D. Rule
• See related letter to the editor by Seibel et al. (pp. 517), and original article by Rule et al. in Vol. 31, Iss. 11 (pp. 2642–2652).
- 518 **Remdesivir in COVID-19 Patients with Impaired Renal Function**
Sanna Gevers, Jan Welink, and Cees van Nieuwkoop
• See related reply by Adamsick et al. (pp. 519–520), and original perspective article by Sise et al. in Vol. 31, Iss. 7 (pp. 1384–1386).
- 519 **Authors' Reply**
Meagan L. Adamsick, Roby P. Bhattacharyya, and Meghan E. Sise, on behalf of the coauthors
• See related letter to the editor by Gevers et al. (pp. 518–519), and original perspective article by Sise et al. in Vol. 31, Iss. 7 (pp. 1384–1386).
- 521 **ERRATUM**