

This Month's Highlights

UP FRONT MATTERS

Editorials

- 233 **Unraveling the Complexity of the Renal Mononuclear Phagocyte System by Genetic Cell Lineage Tracing**
Alexander M.C. Böhrer, Susanne F. Viehmann, and Christian Kurts
• See related article by Salei et al. (pp. 257–278).
- 235 **New Paradigm for Cytoskeletal Organization in Podocytes: Proteolytic Fragments of INF2 Formin Function Independently of INF2 Actin Regulatory Activity**
Mira Krendel and David Pruyne
• See related article by Subramanian et al. (pp. 374–391).
- 236 **Renal Functional Decline in Sickle Cell Disease and Trait**
Karl A. Nath and Gregory M. Vercellotti
• See related article by Olaniran et al. (pp. 393–404).
- 238 **The Dialysis Safety Net: Who Cares for Those Without Medicare?**
Rebecca Thorsness and Amal N. Trivedi
• See related article by Erickson et al. (pp. 424–433).
- 241 **CFHR Gene Variations Provide Insights in the Pathogenesis of the Kidney Diseases Atypical Hemolytic Uremic Syndrome and C3 Glomerulopathy**
Peter F. Zipfel, Thorsten Wiech, Emma D. Stea, and Christine Skerka

Review

BASIC RESEARCH

- 257 **The Kidney Contains Ontogenetically Distinct Dendritic Cell and Macrophage Subtypes throughout Development That Differ in Their Inflammatory Properties**
Natalia Salei, Stephan Rambichler, Johanna Salvermoser, Nikos E. Papaioannou, Ronja Schuchert,

Dalia Pakalniškytė, Na Li, Julian A. Marschner, Julia Lichtnekert, Christopher Stremmel, Filippo M. Cemilogar, Melanie Salvermoser, Barbara Walzog, Tobias Straub, Gunnar Schotta, Hans-Joachim Anders, Christian Schulz, and Barbara U. Schraml
• See related editorial by Böhrer et al. (pp. 233–235).

- 280 **Drugs Repurposed as Antiferroptosis Agents Suppress Organ Damage, Including AKI, by Functioning as Lipid Peroxyl Radical Scavengers**
Eikan Mishima, Emiko Sato, Junya Ito, Ken-ichi Yamada, Chitose Suzuki, Yoshitsugu Oikawa, Tetsuro Matsushashi, Koichi Kikuchi, Takafumi Toyohara, Takehiro Suzuki, Sadayoshi Ito, Kiyotaka Nakagawa, and Takaaki Abe
- 297 **Kinin B1 Receptor Is Important in the Pathogenesis of Myeloperoxidase-Specific ANCA GN**
Peiqi Hu, Hua Su, Hong Xiao, Shen-Ju Gou, Carolina A. Herrera, Marco A. Alba, Masao Kakoki, Ronald J. Falk, and J. Charles Jennette
- 309 **★Whole-Genome Sequencing of Finnish Type 1 Diabetic Siblings Discordant for Kidney Disease Reveals DNA Variants associated with Diabetic Nephropathy**
Jing Guo, Owen J. L. Rackham, Niina Sandholm, Bing He, Anne-May Österholm, Erkkka Valo, Valma Harjutsalo, Carol Forsblom, Iiro Toppila, Maija Parkkonen, Qibin Li, Wenjuan Zhu, Nathan Hamston, Sonia Chothani, Miina K. Öhman, Eudora Eng, Yang Sun, Enrico Petretto, Per-Henrik Groop, and Karl Tryggvason
- 324 **BP Fluctuations and the Real-Time Dynamics of Renal Blood Flow Responses in Conscious Rats**
Anil K. Bidani, Aaron J. Polichnowski, Hector Licea-Vargas, Jianrui Long, Stephanie Kliethermes, Geoffrey A. Williamson, and Karen A. Griffin
- 337 **Loss of Histone H3 K79 Methyltransferase Dot11 Facilitates Kidney Fibrosis by Upregulating Endothelin 1 through Histone Deacetylase 2**
Long Zhang, Lihe Chen, Chao Gao, Enoo Chen, Andrea R. Lightle, Llewellyn Foulke, Bihong Zhao, Paul J. Higgins, and Wenzheng Zhang

350 **Therapeutic Myeloperoxidase Inhibition Attenuates Neutrophil Activation, ANCA-Mediated Endothelial Damage, and Crescentic GN**
Marilina Antonelou, Erik Michaëlsson, Rhys D.R. Evans, Chun Jing Wang, Scott R. Henderson, Lucy S.K. Walker, Robert John Unwin, Alan D. Salama, and RAVE-ITN Investigators

365 ★**Large-Scale Whole-Genome Sequencing Reveals the Genetic Architecture of Primary Membranoproliferative GN and C3 Glomerulopathy**
Adam P. Levine, Melanie M.Y. Chan, Omid Sadeghi-Alavijeh, Edwin K.S. Wong, H. Terence Cook, Sofie Ashford, Keren Carss, Martin T. Christian, Matthew Hall, Claire Louise Harris, Paul McAlinden, Kevin J. Marchbank, Stephen D. Marks, Heather Maxwell, Karyn Megy, Christopher J. Penkett, Monika Mozere, Kathleen E. Stirrups, Salih Tuna, Julie Wessels, Deborah Whitehorn, MPGN/DDD/C3 Glomerulopathy Rare Disease Group, NIHR BioResource, Sally A. Johnson, and Daniel P. Gale

374 **FSGS-Causing INF2 Mutation Impairs Cleaved INF2 N-Fragment Functions in Podocytes**
Balajikarthick Subramanian, Justin Chun, Chandra Perez-Gill, Paul Yan, Isaac E. Stillman, Henry N. Higgs, Seth L. Alper, Johannes S. Schlöndorff, and Martin R. Pollak
• See related editorial by Krendel and Pruyne (pp. 235–236).

CLINICAL EPIDEMIOLOGY

393 ★**Kidney Function Decline among Black Patients with Sickle Cell Trait and Sickle Cell Disease: An Observational Cohort Study**
Kabir O. Olaniran, Andrew S. Allegretti, Sophia H. Zhao, Maureen M. Achebe, Nwamaka D. Eneanya, Ravi I. Thadhani, Sagar U. Nigwekar, and Sahir Kalim
• See related editorial by Nath and Vercellotti (pp. 236–238).

405 **Incident Hospitalization with Major Cardiovascular Diseases and Subsequent Risk of ESKD: Implications for Cardiorenal Syndrome**
Junichi Ishigami, Logan T. Cowan, Ryan T. Demmer, Morgan E. Grams, Pamela L. Lutsey, Juan-Jesus Carrero, Josef Coresh, and Kunihiro Matsushita

415 ★**Kidney Structural Features from Living Donors Predict Graft Failure in the Recipient**
Naim Issa, Camden L. Lopez, Aleksandar Denic, Sandra J. Taler, Joseph J. Larson, Walter K. Kremers, Luisa Ricaurte, Massini A. Merzkani, Mariam Priya Alexander, Harini A. Chakkerla, Mark D. Stegall, Joshua J. Augustine, and Andrew D. Rule

424 ★**Safety-Net Care for Maintenance Dialysis in the United States**
Kevin F. Erickson, Jenny I. Shen, Bo Zhao, Wolfgang C. Winkelmayr, Glenn M. Chertow, Vivian Ho, and Jay Bhattacharya
• See related editorial by Thorsness and Trivedi (pp. 238–240).

CLINICAL RESEARCH

435 ★**Clinical Features and Outcomes of Immune Checkpoint Inhibitor–Associated AKI: A Multicenter Study**
Frank B. Cortazar, Zoe A. Kibbelaar, Ilya G. Glezerman, Ala Abudayyeh, Omar Mamlouk, Shveta S. Motwani, Naoka Murakami, Sandra M. Herrmann, Sandhya Manohar, Anushree C. Shirali, Abhijat Kitchlu, Shayan Shirazian, Amer Assal, Anitha Vijayan, Amanda DeMauro Renaghan, David I. Ortiz-Melo, Sunil Rangarajan, A. Bilal Malik, Jonathan J. Hogan, Alex R. Dinh, Daniel Sanghoon Shin, Kristen A. Marrone, Zain Mithani, Douglas B. Johnson, Afrooz Hosseini, Deekchha Uprety, Shreyak Sharma, Shruti Gupta, Kerry L. Reynolds, Meghan E. Sise, and David E. Leaf

LETTER TO THE EDITOR

447 **Age-Dependent Definition of CKD**
Howard Trachtman

447 **Current CKD Definition Takes into Account Both Relative and Absolute Risk**
Josef Coresh, and Ron T. Gansevoort on behalf of the CKD Prognosis Consortium, Adeera Levin, and Michel Jadoul on behalf of KDIGO

448 **Authors' Reply**
Andrew D. Rule, Kitty J. Jager, Jan A.J.G. van den Brand, and Pierre Delanaye