

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1073 **Unique Gene Expression in Developing Ascending Vasa Recta: A Tale of Tie**
David P. Basile and Mervin C. Yoder
• See related article by Kenig-Kozlovsky et al. (pp. 1097–1107).
- 1075 **Maintenance and Breakdown of Glomerular Tuft Architecture**
Wilhelm Kriz
• See related article by Zimmerman et al. (pp. 1128–1140).
- 1077 **We AIM2 Inflammation**
Andreas Linkermann, Simon P. Parmentier, and Christian Hugo
• See related article by Komada et al. (pp. 1165–1181).
- 1079 **Evaluation of Potential Living Kidney Donors in the APOL1 Era**
Barry I. Freedman and Bruce A. Julian
• See related article by Doshi et al. (pp. 1309–1316).
- 1081 **Gender Disparities and Financial Barriers to Living Kidney Donation**
Arthur J. Matas and Rebecca E. Hays
• See related article by Gill et al. (pp. 1301–1308).
- 1083 **Targeting Zero Infections in Dialysis: New Devices, Yes, but also Guidelines, Checklists, and a Culture of Safety**
Alan S. Kliger
• See related article by Brunelli et al. (pp. 1336–1343).
- Perspectives**
- 1085 **Bariatric Surgery and Kidney Health**
John C. Lieske
• See related article by Freidman et al. (pp. 1289–1300).
- 1087 **Filtering the Evidence: Is There a Cognitive Cost of Hemodialysis?**
Dawn F. Wolfgram
• See related article by Polinder-Bos et al. (pp. 1317–1325).

Brief Review

- 1090 **HIV-Positive Kidney Donor Selection for HIV-Positive Transplant Recipients**
Elmi Muller and Zunaid Barday

BASIC RESEARCH

- 1097 ★ **Ascending Vasa Recta Are Angiopoietin/Tie2-Dependent Lymphatic-Like Vessels**
Yael Kenig-Kozlovsky, Rizaldy P. Scott, Tuncer Onay, Isabel Anna Carota, Benjamin R. Thomson, Hyea Jin Gil, Veronica Ramirez, Shinji Yamaguchi, Christine E. Tanna, Stefan Heinen, Christine Wu, Radu V. Stan, Janet D. Klein, Jeff M. Sands, Guillermo Oliver, and Susan E. Quaggin
• See related editorial by Basile and Yoder (pp. 1073–1074).
- 1108 **The Adiponectin Receptor Agonist AdipoRon Ameliorates Diabetic Nephropathy in a Model of Type 2 Diabetes**
Yaeni Kim, Ji Hee Lim, Min Young Kim, Eun Nim Kim, Hye Eun Yoon, Seok Joon Shin, Bum Soon Choi, Yong-Soo Kim, Yoon Sik Chang, and Cheol Whee Park
- 1128 ★ **Nephronectin Regulates Mesangial Cell Adhesion and Behavior in Glomeruli**
Susan E. Zimmerman, Chitkale Hiremath, Jun Tsunozumi, Zhufeng Yang, Bronwyn Finney, and Denise K. Marciano
• See related editorial by Kriz (pp. 1075–1077).
- 1141 **The MFHR1 Fusion Protein Is a Novel Synthetic Multitarget Complement Inhibitor with Therapeutic Potential**
Stefan Michelfelder, Friedericke Fischer, Astrid Wäldin, Kim V. Hörle, Martin Pohl, Juliana Parsons, Ralf Reski, Eva L. Decker, Peter F. Zipfel, Christine Skerka, and Karsten Häffner
- 1154 **Exogenous Gene Transmission of Isocitrate Dehydrogenase 2 Mimics Ischemic Preconditioning Protection**
Alexander L. Kolb, Peter R. Corridon, Shijun Zhang, Weimin Xu, Frank A. Witzmann, Jason A. Collett, George J. Rhodes, Seth Winfree, Devin Bready, Zechariah J. Pfeffenberger, Jeremy M. Pomerantz,

Takashi Hato, Glenn T. Nagami, Bruce A. Molitoris, David P. Basile, Simon J. Atkinson, and Robert L. Bacallao

1165 ★Macrophage Uptake of Necrotic Cell DNA Activates the AIM2 Inflammasome to Regulate a Proinflammatory Phenotype in CKD

Takanori Komada, Hyunjae Chung, Arthur Lau, Jaye M. Platnich, Paul L. Beck, Hallgrimur Benediktsson, Henry J. Duff, Craig N. Jenne, and Daniel A. Muvue
• See related editorial by Linkermann et al. (pp. 1077–1079).

1182 NBCe1-A Regulates Proximal Tubule Ammonia Metabolism under Basal Conditions and in Response to Metabolic Acidosis

Hyun-Wook Lee, Gunars Osis, Autumn N. Harris, Lijuan Fang, Michael F. Romero, Mary E. Handlogten, Jill W. Verlander, and I. David Weiner

1198 Protein Kinase 2 β Is Expressed in Neural Crest-Derived Urinary Pacemaker Cells and Required for Pyeloureteric Contraction

Samir M. Iskander, Meghan M. Feeney, Kirby Yee, and Norman D. Rosenblum

1210 IL-17C/IL-17 Receptor E Signaling in CD4⁺ T Cells Promotes T_H17 Cell-Driven Glomerular Inflammation

Sonja Krohn, Jasper F. Nies, Sonja Kapffer, Tilman Schmidt, Jan-Hendrik Riedel, Anna Kaffke, Anett Peters, Alina Borchers, Oliver M. Steinmetz, Christian F. Krebs, Jan-Eric Turner, Silke R. Brix, Hans-Joachim Paust, Rolf A. K. Stahl, and Ulf Panzer

1223 Impairment of PPAR α and the Fatty Acid Oxidation Pathway Aggravates Renal Fibrosis during Aging

Ki Wung Chung, Eun Kyeong Lee, Mi Kyung Lee, Goo Taeg Oh, Byung Pal Yu, and Hae Young Chung

1238 Wnt9a Promotes Renal Fibrosis by Accelerating Cellular Senescence in Tubular Epithelial Cells

Congwei Luo, Shan Zhou, Zhanmei Zhou, Yahong Liu, Li Yang, Jiafeng Liu, Yunfang Zhang, Hongyan Li, Youhua Liu, Fan Fan Hou, and Lili Zhou

1257 Fibroblast-Specific β -Catenin Signaling Dictates the Outcome of AKI

Dong Zhou, Haiyan Fu, Liangxiang Xiao, Hongyan Mo, Hui Zhuo, Xiaojun Tian, Lin Lin, Jianhua Xing, and Youhua Liu

1272 Endogenous IL-33 Contributes to Kidney Ischemia-Reperfusion Injury as an Alarmin

Maroua Ferhat, Aurélie Robin, Sébastien Giraud, Sandra Sena, Jean-Michel Goujon,

Guy Touchard, Thierry Hauet, Jean-Philippe Girard, Jean-Marc Gombert, André Herbelin, and Antoine Thierry

CLINICAL EPIDEMIOLOGY

1289 Effect of Bariatric Surgery on CKD Risk

Allon N. Friedman, Abdus S. Wahed, Junyao Wang, Anita P. Courcoulas, Gregory Dakin, Marcelo W. Hinojosa, Paul L. Kimmel, James E. Mitchell, Alfons Pomp, Walter J. Pories, Jonathan Q. Purnell, Carel le Roux, Konstantinos Spaniolas, Kristine J. Steffen, Richard Thirlby, and Bruce Wolfe
• See related perspective by Lieske (pp. 1085–1086).

1301 ★The Change in Living Kidney Donation in Women and Men in the United States (2005–2015): A Population-Based Analysis

Jagbir Gill, Yayuk Joffres, Caren Rose, Julie Lesage, David Landsberg, Matthew Kadatz, and John Gill
• See related editorial by Matas and Hays (pp. 1081–1083).

CLINICAL RESEARCH

1309 ★APOL1 Genotype and Renal Function of Black Living Donors

Mona D. Doshi, Mariella Ortigosa-Goggins, Amit X. Garg, Lihua Li, Emilio D. Poggio, Cheryl A. Winkler, and Jeffrey B. Kopp
• See related editorial by Freedman and Julian (pp. 1079–1081).

1317 ★Hemodialysis Induces an Acute Decline in Cerebral Blood Flow in Elderly Patients

Harmke A. Polinder-Bos, David Váñez García, Johanna Kuipers, Jan Willem J. Elting, Marcel J.H. Aries, Wim P. Krijnen, Henk Groen, Antoon T.M. Willemsen, Peter J. van Laar, Fijanne Strijkert, Gert Luurtsema, Riemer H.J.A. Slart, Ralf Westerhuis, Ron T. Gansevoort, Carlo A.J.M. Gaillard, and Casper F.M. Franssen
• See related perspective by Wolfgram (pp. 1087–1089).

1326 Blood HER2 and Uromodulin as Causal Mediators of CKD

Jennifer Sjaarda, Hertz C. Gerstein, Salim Yusuf, Darin Treleaven, Michael Walsh, Johannes F.E. Mann, Sibylle Hess, and Guillaume Paré

1336 Cluster-Randomized Trial of Devices to Prevent Catheter-Related Bloodstream Infection

Steven M. Brunelli, David B. Van Wyck, Levi Njord, Robert J. Ziebol, Laurie E. Lynch, and Douglas P. Killion
• See related editorial by Klinger (pp. 1083–1084).