

This Month's Highlights

UP FRONT MATTERS

Editorials

- 3427 Surprising Enhancement of Fibrosis by Tubule-Specific Deletion of the TGF- β Receptor: A New Twist on an Old Paradigm**

David P. Basile and Purvi Mehrotra

- See related article by Nlandu Khodo et al. (pp. 3490–3503).

- 3429 Obesity-Related CKD: When Kidneys Get the Munchies**

Peter F. Mount and Luis A. Juncos

- See related article by Udi et al. (pp. 3518–3532).

- 3432 Prescription Opioids for Pain Management in Patients on Dialysis**

Beth Han and Wilson M. Compton

- See related article by Kimmel et al. (pp. 3658–3670).

- 3435 Calcineurin Inhibitors in the Treatment of Lupus Nephritis: A Hare Versus Turtle Story?**

Isabelle Ayoub and Brad H. Rovin

- See related article by Zhang et al. (pp. 3671–3678).

Perspective

- 3438 Developing Tools for Analysis of Renal Genomic Data: An Invitation to Participate**

Agustin Gonzalez-Vicente, Ulrich Hopfer, and Jeffrey L. Garvin

Brief Reviews

- 3441 Dialysate Potassium, Dialysate Magnesium, and Hemodialysis Risk**

Patrick H. Pun and John P. Middleton

- 3452 New Ultrasound Techniques Promise Further Advances in AKI and CKD**

Travis D. Hull, Anupam Agarwal, and Kenneth Hoyt

- 3461 Assessing Microvascular Function in Humans from a Chronic Disease Perspective**

Alfons J.H.M. Houben, Remy J.H. Martens, and Coen D.A. Stehouwer

BRIEF COMMUNICATION

- 3473 BPI Fold-Containing Family A Member 2/Parotid Secretory Protein Is an Early Biomarker of AKI**

Satya K. Kota, Elizabeth Pernicone, David E. Leaf, Isaac E. Stillman, Sushrut S. Waikar, and Savithri Balasubramanian Kota

BASIC RESEARCH

- 3479 ★ Interference with Gs α -Coupled Receptor Signaling in Renin-Producing Cells Leads to Renal Endothelial Damage**

Peter Lachmann, Linda Hickmann, Anne Steglich, Moath Al-Mekhlafi, Michael Gerlach, Niels Jetschin, Steffen Jahn, Brigitte Hamann, Monika Wnuk, Kirsten Madsen, Valentin Djonov, Min Chen, Lee S. Weinstein, Bernd Hohenstein, Christian P.M. Hugo, and Vladimir T. Todorov

- 3490 Blocking TGF- β and β -Catenin Epithelial Crosstalk Exacerbates CKD**

Stellor Nlandu-Khodo, Surekha Neelisetty, Melanie Phillips, Marika Manolopoulou, Gautam Bhawe, Lauren May, Peter E. Clark, Haichun Yang, Agnes B. Fogo, Raymond C. Harris, M. Mark Takeeto, Ethan Lee, and Leslie S. Gewin

- See related editorial by Basile and Mehrotra (pp. 3427–3429).

- 3504 ★ Sexual Dimorphic Pattern of Renal Transporters and Electrolyte Homeostasis**

Luciana C. Veiras, Adriana C.C. Girardi, Joshua Curry, Lei Pei, Donna L. Ralph, An Tran, Regiane C. Castelo-Branco, Nuria Pastor-Soler, Cristina T. Arranz, Alan S.L. Yu, and Alicia A. McDonough

- 3518 Proximal Tubular Cannabinoid-1 Receptor Regulates Obesity-Induced CKD**

Shiran Udi, Liad Hinden, Brian Earley, Adi Drori, Noa Reuveni, Rivka Hadar, Resat Cinar, Alina Nemirovski, and Joseph Tam

- See related editorial by Juncos and Mount (pp. 3429–3532).

- 3533 Renal Tubular Cell-Derived Extracellular Vesicles Accelerate the Recovery of Established Renal Ischemia Reperfusion Injury**
Jesus H. Dominguez, Yunlong Liu, Hongyu Gao, James M. Dominguez II, Danhui Xie, and K. J. Kelly
- 3545 ★Kindlin-2 Association with Rho GDP-Dissociation Inhibitor α Suppresses Rac1 Activation and Podocyte Injury**
Ying Sun, Chen Guo, Ping Ma, Yumei Lai, Fan Yang, Jun Cai, Zehao Cheng, Kuo Zhang, Zhongzhen Liu, Yeteng Tian, Yue Sheng, Ruijun Tian, Yi Deng, Guozhi Xiao, and Chuanyue Wu
- 3563 Endothelial *Epas1* Deficiency Is Sufficient To Promote Parietal Epithelial Cell Activation and FSGS in Experimental Hypertension**
Yosu Luque, Olivia Lenoir, Philippe Bonnin, Lise Hardy, Anna Chipont, Sandrine Placier, Sophie Vandermeersch, Yi-Chun Xu-Dubois, Blaise Robin, H el ene Lazareth, Mich ele Souyri, L ea Guyonnet, V eronique Baudrie, Eric Camerer, Eric Rondeau, Laurent Mesnard, and Pierre-Louis Tharoux
- 3579 Targeting Phospholipase D4 Attenuates Kidney Fibrosis**
Priyanka Trivedi, Ramya K. Kumar, Ashwin Iyer, Sarah Boswell, Casimiro Gerarduzzi, Vivekkumar P. Dadhanian, Zach Herbert, Nikita Joshi, James P. Luyendyk, Benjamin D. Humphreys, and Vishal S. Vaidya
- 3590 Macrophage Migration Inhibitory Factor Limits Renal Inflammation and Fibrosis by Counteracting Tubular Cell Cycle Arrest**
Sonja Djurdjaj, Ina V. Martin, Eva M. Buhl, Nina J. Nothofer, Lin Leng, Marta Piecychna, J urgen Floege, J urgen Bernhagen, Richard Bucala, and Peter Boor
- 3605 Serum Iron Protects from Renal Postischemic Injury**
C eline Vaugier, Mariane T. Amano, Jonathan M. Chemouny, Michael Dussiot, Claire Berrou, Marie Matignon, Sanae Ben Mkaddem, Pamela H.M. Wang, Aur elie Fricot, Thiago T. Maciel, Damien Grapton, Jacques R.R. Mathieu, Carole Beaumont, Marie-No elle Peraldi, Carole Peyssonnaud, Laurent Mesnard, Eric Daugas, Fran ois Vrtovsnik, Renato C. Monteiro, Olivier Hermine, Yelena Z. Ginzburg, Marc Benhamou, Niels O.S. Camara, Martin Flamant, and Ivan C. Moura
- 3616 Targeting Anti-TGF- β Therapy to Fibrotic Kidneys with a Dual Specificity Antibody Approach**
Steve McGaraughty, Rachel A. Davis-Taber, Chang Z. Zhu, Todd B. Cole, Arthur L. Nikkel, Meha Chhaya, Kelly J. Doyle, Lauren M. Olson, Gregory M. Preston, Christine M. Grinnell, Katherine M. Salte, Anthony M. Giamis, Yanping Luo, Victor Sun, Andrew D. Goodearl, Murali Gopalakrishnan, and Susan E. Lacy
- 3627 Variations in MicroRNA-25 Expression Influence the Severity of Diabetic Kidney Disease**
Yunshuang Liu, Hongzhi Li, Jieting Liu, Pengfei Han, Xuefeng Li, He Bai, Chunlei Zhang, Xuelian Sun, Yanjie Teng, Yufei Zhang, Xiaohuan Yuan, Yanhui Chu, and Binghai Zhao
- CLINICAL EPIDEMIOLOGY**
- 3639 C-Terminal Fibroblast Growth Factor 23, Iron Deficiency, and Mortality in Renal Transplant Recipients**
Michele F. Eisenga, Marco van Londen, David E. Leaf, IJla M. Nolte, Gerjan Navis, Stephan J.L. Bakker, Martin H. de Borst, and Carlo A.J.M. Gaillard
- 3647 ★Use and Outcomes of Kidneys from Donation after Circulatory Death Donors in the United States**
John Gill, Caren Rose, Julie Lesage, Yayuk Joffres, Jagbir Gill, and Kevin O'Connor
- 3658 Opioid Prescription, Morbidity, and Mortality in United States Dialysis Patients**
Paul L. Kimmel, Chyng-Wen Fwu, Kevin C. Abbott, Anne W. Eggers, Prudence P. Kline, and Paul W. Eggers
• See related editorial by Han and Compton (pp. 3432–3434).
- CLINICAL RESEARCH**
- 3671 Multitarget Therapy for Maintenance Treatment of Lupus Nephritis**
Haitao Zhang, Zhengzhao Liu, Minlin Zhou, Zhangsuo Liu, Jianghua Chen, Changying Xing, Hongli Lin, Zhaohui Ni, Ping Fu, Fuyou Liu, Nan Chen, Yongcheng He, Jianshe Liu, Caihong Zeng, and Zhihong Liu
• See related editorial by Ayoub and Rovin (pp. 3435–3437).
- 3679 ★The Clinical and Economic Effect of Vascular Access Selection in Patients Initiating Hemodialysis with a Catheter**
Alian Al-Balas, Timmy Lee, Carlton J. Young, Jeffrey A. Kepes, Jill Barker-Finkel, and Michael Allon
- 3688 Tubulointerstitial Nephritis with IgM-Positive Plasma Cells**
Naoki Takahashi, Takako Saeki, Atsushi Komatsuda, Chishio Munemura, Takeaki Fukui, Naofumi Imai, Noriyuki Homma, Tsuguru Hatta, Ken-ichi Samejima, Takashi Fujimoto, Hiroki Omori, Yumi Ito, Yudai Nishikawa, Mamiko Kobayashi, Yukie Morikawa, Sachiko Fukushima,

Seiji Yokoi, Daisuke Mikami, Kenji Kasuno, Hideki Kimura, Tomoyuki Nemoto, Yasunari Nakamoto, Kiyonao Sada, Manabu Sugai, Hironobu Naiki, Haruyoshi Yoshida, Ichiei Narita, Yoshihiko Saito, and Masayuki Iwano

3699 ★ Relationship of Kidney Injury Biomarkers with Long-Term Cardiovascular Outcomes after Cardiac Surgery

Chirag R. Parikh, Jeremy Puthumana, Michael G. Shlipak, Jay L. Koyner, Heather Thiessen-Philbrook, Eric McArthur, Kathleen Kerr, Peter Kavsak, Richard P. Whitlock, Amit X. Garg, and Steven G. Coca

3708 The Association of Sleep Duration and Quality with CKD Progression

Ana C. Ricardo, Kristen Knutson, Jinsong Chen, Lawrence J. Appel, Lydia Bazzano, Eunice Carmona-Powell, Janet Cohan, Manjula Kurella Tamura, Susan Steigerwalt, John Daryl Thornton, Matthew Weir, Nicolas F. Turek, Mahboob Rahman, Eve Van Cauter, James P. Lash, and the Chronic Renal Insufficiency Cohort (CRIC) Study Investigators

3716 ERRATUM