

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1 **Endothelial Cell Identity, Heterogeneity and Plasticity in the Kidney**
Barbara J. Ballermann
• See related article by Dumas et al. (pp. 118–138).
- 2 **Can Dialysis Withdrawal Explain Why White Patients Have Worse Survival than Black Patients?**
Keith C. Norris and Kamyar Kalantar-Zadeh
• See related article by Agunbiade et al. (pp. 149–160).
- 4 **Pilot Trials in Nephrology: Establishing a BASE for Large-Scale Randomized Trials**
Brendon L. Neuen and Vlado Perkovic
• See related article by Raphael et al. (pp. 161–174).
- 6 **When Less Becomes More: Life and Losses without the 'Roids'?**
Germaine Wong, Wai Hon Lim, and Jonathan C. Craig
• See related article by Bae et al. (pp. 175–185).
- 8 **Refining Our Understanding of the PLA2R-Antibody Response in Primary Membranous Nephropathy: Looking Forward, Looking Back**
Laurence H. Beck Jr. and David J. Salant
• See related articles by Reinhard et al. (pp. 197–207) and Burbelo et al. (pp. 208–217).
- 12 **Clinical Pig Kidney Xenotransplantation: How Close Are We?**
David K. C. Cooper, Hidetaka Hara, Hayato Iwase, Takayuki Yamamoto, Abhijit Jagdale, Vineeta Kumar,

Roslyn Bernstein Mannon, Michael J. Hanaway, Douglas J. Anderson, and Devin E. Eckhoff

BASIC RESEARCH

- 23 **Proximal Tubule Translational Profiling during Kidney Fibrosis Reveals Proinflammatory and Long Noncoding RNA Expression Patterns with Sexual Dimorphism**
Haojia Wu, Chun-Fu Lai, Monica Chang-Panesso, and Benjamin D. Humphreys
- 40 **★A Modified Peptide Derived from Goodpasture Autoantigen Arrested and Attenuated Kidney Injuries in a Rat Model of Anti-GBM Glomerulonephritis**
Yue Shi, Xiao-yu Jia, Qiu-hua Gu, Miao Wang, Zhao Cui, and Ming-hui Zhao
- 54 **Additive Therapeutic Effects of Mesenchymal Stem Cells and IL-37 for Systemic Lupus Erythematosus**
Jiangyong Xu, Jieting Chen, Wenlei Li, Wei Lian, Jieyong Huang, Baoyu Lai, Lingyun Li, and Zhong Huang
- 67 **Effects of Proximal Tubule Shortening on Protein Excretion in a Lowe Syndrome Model**
Megan L. Gliozzi, Eugenel B. Espiritu, Katherine E. Shipman, Youssef Rbaibi, Kimberly R. Long, Nairita Roy, Andrew W. Duncan, Matthew J. Lazzara, Neil A. Hukriede, Catherine J. Baty, and Ora A. Weisz
- 85 **Periostin Promotes Cell Proliferation and Macrophage Polarization to Drive Repair after AKI**
Raphaël Kormann, Panagiotis Kavvadas, Sandrine Placier, Sophie Vandermeersch, Aude Dorison, Jean-Claude Dussaule, Christos E. Chadjichristos, Niki Prakoura, and Christos Chatziantoniou

- 102 ★ **GSTM1 Deletion Exaggerates Kidney Injury in Experimental Mouse Models and Confers the Protective Effect of Cruciferous Vegetables in Mice and Humans**
Joseph C. Gigliotti, Adrienne Tin, Shirin Pourafshar, Sylvia Cechova, Yves T. Wang, Sun-sang J. Sung, Gabor Bodonyi-Kovacs, Janet V. Cross, Guang Yang, Nhu Nguyen, Fang Chan, Casey Rebholz, Bing Yu, Megan L. Grove, Morgan E. Grams, Anna Köttgen, Robert Scharpf, Phillip Ruiz, Eric Boerwinkle, Josef Coresh, and Thu H. Le

- 118 ★ **Single-Cell RNA Sequencing Reveals Renal Endothelium Heterogeneity and Metabolic Adaptation to Water Deprivation**
Sébastien J. Dumas, Elda Meta, Mila Borri, Jermaine Goveia, Katerina Rohlenova, Nadine V. Conchinha, Kim Falkenberg, Laure-Anne Teuwen, Laura de Rooij, Joanna Kalucka, Rongyuan Chen, Shawez Khan, Federico Taverna, Weisi Lu, Magdalena Parys, Carla De Legher, Stefan Vinckier, Tobias K. Karakach, Luc Schoonjans, Lin Lin, Lars Bolund, Mieke Dewerchin, Guy Eelen, Ton J. Rabelink, Xuri Li, Yonglun Luo, and Peter Carmeliet
• See related editorial by Ballermann (pp. 1–2).

- 139 **Deletion in the Cobalamin Synthetase W Domain-Containing Protein 1 Gene Is associated with Congenital Anomalies of the Kidney and Urinary Tract**
Shoichiro Kanda, Masaki Ohmuraya, Hiroyuki Akagawa, Shigeru Horita, Yasuhiro Yoshida, Naoto Kaneko, Noriko Sugawara, Kiyonobu Ishizuka, Kenichiro Miura, Yutaka Harita, Toshiyuki Yamamoto, Akira Oka, Kimi Araki, Toru Furukawa, and Motoshi Hattori

CLINICAL EPIDEMIOLOGY

- 149 ★ **Racial/Ethnic Differences in Dialysis Discontinuation and Survival after Hospitalization for Serious Conditions among Patients on Maintenance Dialysis**
Abdulkareem Agunbiade, Abhijit Dasgupta, and Michael M. Ward
• See related editorial by Norris and Kalantar-Zadeh (pp. 2–4).

CLINICAL RESEARCH

- 161 **A Randomized Trial Comparing the Safety, Adherence, and Pharmacodynamics Profiles of Two Doses of Sodium Bicarbonate in CKD: the BASE Pilot Trial**
Kalani L. Raphael, Tamara Isakova, Joachim H. Ix, Dominic S. Raj, Myles Wolf, Linda F. Fried, Jennifer J. Gassman,

Cynthia Kendrick, Brett Larive, Michael F. Flessner, Susan R. Mendley, Thomas H. Hostetter, Geoffrey A. Block, Ping Li, John P. Middleton, Stuart M. Sprague, Donald E. Wesson, and Alfred K. Cheung
• See related editorial by Neuen and Perkovic (pp. 4–6).

- 175 **Early Steroid Withdrawal in Deceased-Donor Kidney Transplant Recipients with Delayed Graft Function**
Sunjae Bae, Jacqueline M. Garonzik Wang, Allan B. Massie, Kyle R. Jackson, Mara A. McAdams-DeMarco, Daniel C. Brennan, Krista L. Lentine, Josef Coresh, and Dorry L. Segev
• See related editorial by Wong et al. (pp. 6–8).

- 186 **Multicenter Randomized Controlled Trial of Vitamin K Antagonist Replacement by Rivaroxaban with or without Vitamin K2 in Hemodialysis Patients with Atrial Fibrillation: the Valkyrie Study**
An S. De Vriese, Rogier Caluwé, Lotte Pyfferoen, Dirk De Bacquer, Koen De Boeck, Joost Delanote, Didier De Surgeloose, Piet Van Hoenacker, Bruno Van Vlem, and Francis Verbeke

- 197 **Clinical Relevance of Domain-Specific Phospholipase A₂ Receptor 1 Antibody Levels in Patients with Membranous Nephropathy**
Linda Reinhard, Gunther Zahner, Stephan Menzel, Friedrich Koch-Nolte, Rolf A.K. Stahl, and Elion Hoxha
• See related editorial by Beck and Salant (pp. 8–11) and article by Burbelo et al. (pp. 208–217).

- 208 ★ **Detection of PLA2R Autoantibodies before the Diagnosis of Membranous Nephropathy**
Peter D. Burbelo, Megha Joshi, Adrija Chaturvedi, Dustin J. Little, John S. Thurlow, Meryl Waldman, and Stephen W. Olson
• See related editorial by Beck and Salant (pp. 8–11) and article by Reinhard et al. (pp. 197–207).

- 218 ★ **Economic Evaluation of Extending Medicare Immunosuppressive Drug Coverage for Kidney Transplant Recipients in the Current Era**
Matthew Kadatz, John S. Gill, Jagbir Gill, Richard N. Formica, and Scott Klarenbach

LETTER TO THE EDITOR

- 229 **Financial Neutrality in Organ Donation**
Alexander M. Capron, Francis L. Delmonico, and Gabriel M. Danovitch

- 231 **ERRATUM**