

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1183 **An Expanding Universe of FSGS Genes and Phenotypes: *LMX1B* Mutations Cause Familial Autosomal Dominant FSGS Lacking Extrarenal Manifestations**

Jeffrey B. Kopp

- See related article by Boyer et al. (pp. 1216–1222).

- 1185 **Maintaining Mitochondrial Morphology in AKI: Looks Matter**

Andrew M. Hall

- See related article by Birk et al. (pp. 1250–1261).

- 1187 **Vascular Access for Hemodialysis in Older Adults: A "Patient First" Approach**

Ann M. O'Hare

- See related article by DeSilva et al. (pp. 1297–1304).

- 1190 **Can Genetics Risk-Stratify Patients with Membranous Nephropathy?**

Andrew S. Bombardieri and Ali G. Gharavi

- See related article by Lv et al. (pp. 1323–1329).

Brief Review

- 1193 **Estimation of Glomerular Podocyte Number: A Selection of Valid Methods**

Kevin V. Lemley, John F. Bertram, Susanne B. Nicholas, and Kathryn White

Pathophysiology of the Renal Biopsy

- 1204 **AKI in an HIV Patient**

P. Matthew Hartle, Mariu E. Carlo, Jamie P. Dwyer, and Agnes B. Fogo

BRIEF COMMUNICATIONS

- 1209 **Deletion of the Insulin Receptor in the Proximal Tubule Promotes Hyperglycemia**

Swasti Tiwari, Ravi Shankar Singh, Lijun Li, Susanna Tsukerman, Madan Godbole, Gaurav Pandey, and Carolyn M. Ecelbarger

- 1216 ***LMX1B* Mutations Cause Hereditary FSGS without Extrarenal Involvement**

Olivia Boyer, Stéphanie Woerner, Fan Yang, Edward J. Oakeley, Bolan Linghu, Olivier Gribouval, Marie-Josèphe Tête, José S. Duca, Lloyd Klickstein, Amy J. Damask, Joseph D. Szustakowski, Françoise Heibel, Marie Matignon, Véronique Baudouin, François Chantrel, Jacqueline Champigneulle, Laurent Martin, Patrick Nitschké, Marie-Claire Gubler, Keith J. Johnson, Salah-Dine Chibout, and Corinne Antignac

- See related editorial by Kopp (pp. 1183–1185).

BASIC RESEARCH

- 1223 **Laminin $\beta 2$ Gene Missense Mutation Produces Endoplasmic Reticulum Stress in Podocytes**

Ying Maggie Chen, Yuefang Zhou, Gloriosa Go, Joseph T. Marmorstein, Yamato Kikkawa, and Jeffrey H. Miner

- 1234 **Renal CD133⁺/CD73⁺ Progenitors Produce Erythropoietin under Hypoxia and Prolyl Hydroxylase Inhibition**

Benedetta Bussolati, Carola Lauritano, Aldo Moggio, Federica Collino, Massimiliano Mazzone, and Giovanni Camussi

- 1242 ***Islet1* Deletion Causes Kidney Agenesis and Hydroureter Resembling CAKUT**

Yusuke Kaku, Tomoko Ohmori, Kuniko Kudo, Sayoko Fujimura, Kentaro Suzuki, Sylvia M. Evans, Yasuhiko Kawakami, and Ryuichi Nishinakamura

- 1250 **The Mitochondrial-Targeted Compound SS-31 Re-Energizes Ischemic Mitochondria by Interacting with Cardiolipin**

Alexander V. Birk, Shaoyi Liu, Yi Soong, William Mills, Pradeep Singh, J. David Warren, Surya V. Seshan, Joel D. Pardee, and Hazel H. Szeto

- See related editorial by Hall (pp. 1185–1187).

- 1263 **★Adult Renal Mesenchymal Stem Cell–Like Cells Contribute to Juxtaglomerular Cell Recruitment**

Hao Wang, Jose A. Gomez, Sabine Klein, Zhiping Zhang, Barbara Seidler, Yanqiang Yang, Jeffrey Schmeckpeper, Lunan Zhang, Garrett G. Muramoto, John Chute, Richard E. Pratt, Dieter Saur, Maria Mirotsoy, and Victor J. Dzau

1274 ★Slit2 Prevents Neutrophil Recruitment and Renal Ischemia-Reperfusion Injury

Swasti Chaturvedi, Darren A. Yuen, Amandeep Bajwa, Yi-Wei Huang, Christiane Sokollik, Liping Huang, Grace Y. Lam, Soumitra Tole, Guang-Ying Liu, Jerry Pan, Lauren Chan, Yaro Sokolsky, Manoj Puthia, Gabriela Godaly, Rohan John, Changsen Wang, Warren L. Lee, John H. Brumell, Mark D. Okusa, and Lisa A. Robinson

1288 ★Androgen-Sensitive Hypertension Associates with Upregulated Vascular CYP4A12–20-HETE Synthase

Cheng-Chia Wu, Shaojun Mei, Jennifer Cheng, Yan Ding, Adam Weidenhammer, Victor Garcia, Fan Zhang, Katherine Gotlinger, Vijaya L. Manthathi, John R. Falck, Jorge H. Capdevila, and Michal L. Schwartzman

CLINICAL EPIDEMIOLOGY

1297 ★Fistula First Is Not Always the Best Strategy for the Elderly

Ranil N. DeSilva, Bhanu K. Patibandla, Yael Vin, Akshita Narra, Varun Chawla, Robert S. Brown, and Alexander S. Goldfarb-Rumyantsev

- See related editorial by O'Hare (pp. 1187–1190).

CLINICAL RESEARCH

1305 Nephrotic Syndrome Caused by Immune-Mediated Acquired LCAT Deficiency

Satoshi Takahashi, Keiju Hiromura, Mayuko Tsukida, Yuko Ohishi, Hiroko Hamatani, Noriyuki Sakurai, Toru Sakairi, Hidekazu Ikeuchi, Yoriaki Kaneko, Akito Maeshima, Takashi Kuroiwa, Hideaki Yokoo, Takeo Aoki, Michio Nagata, and Yoshihisa Nojima

1313 ★TNXB Mutations Can Cause Vesicoureteral Reflux

Rasheed A. Gbadegesin, Patrick D. Brophy, Adebowale Adeyemo, Gentzon Hall, Indra R. Gupta, David Hains, Bartlomeij Bartkowiak, C. Eglar Rabinovich, Settara Chandrasekharappa, Alison Homstad, Katherine Westreich, Guanghong Wu, Yutao Liu, Danniele Holanda, Jason Clarke, Peter Lavin, Angelica Selim, Sara Miller, John S. Wiener, Sherry S. Ross, John Foreman, Charles Rotimi, and Michelle P. Winn

1323 Interaction between PLA2R1 and HLA-DQA1 Variants Associates with Anti-PLA2R Antibodies and Membranous Nephropathy

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- See related editorial by Bomback and Gharavi (pp. 1190–1192).

1330 ★A Combined Epidemiologic and Metabolomic Approach Improves CKD Prediction

Eugene P. Rhee, Clary B. Clish, Anahita Ghorbani, Martin G. Larson, Sammy Elmariah, Elizabeth McCabe, Qiong Yang, Susan Cheng, Kerry Pierce, Amy Deik, Amanda L. Souza, Laurie Farrell, Carly Damos, Robert W. Yeh, Igor Palacios, Kenneth Rosenfield, Ramachandran S. Vasani, Jose C. Florez, Thomas J. Wang, Caroline S. Fox, and Robert E. Gerszten