

This Month's Highlights

UP FRONT MATTERS

Editorials

- 907 **Erythropoiesis-Stimulating Agents and Mortality**
Tilman B. Drüeke and Ziad A. Massy
• See related article by Sakaguchi et al. (pp. 1037–1048).

- 909 **Dual Inhibition of Gastrointestinal Phosphate Absorption: More Questions Than Answers**
Wing-Chi G. Yeung, Nigel D. Toussaint, and Sunil V. Badve
• See related article by Ix et al. (pp. 1096–1108).

Perspectives

- 911 **Solving Baroreceptor Mystery: Role of PIEZO Ion Channels**
Suzanne D. Burke, Jens Jordan, David G. Harrison, and S. Ananth Karumanchi

- 914 **Pyelonephritis: A Historical Reappraisal**
Samaya Anumudu and Garabed Eknoyan

Review

- 918 **Arterial Stiffness in the Heart Disease of CKD**
Luca Zanolini, Paolo Lentini, Marie Briet, Pietro Castellino, Andrew A. House, Gerard M. London, Lorenzo Malatino, Peter A. McCullough, Dimitri P. Mikhailidis, and Pierre Boutouyrie

BASIC RESEARCH

- 929 **Proximal Tubule Autophagy Differs in Type 1 and 2 Diabetes**
Shinsuke Sakai, Takeshi Yamamoto, Yoshitsugu Takabatake, Atsushi Takahashi, Tomoko Namba-Hamano, Satoshi Minami, Ryuta Fujimura, Hiroaki Yonishi, Jun Matsuda, Atsushi Hesaka, Isao Matsui, Taiji Matsusaka, Fumio Niimura, Motoko Yanagita, and Yoshitaka Isaka

- 946 **Vasopressin Increases Urinary Acidification via V1a Receptors in Collecting Duct Intercalated Cells**
Torsten Giesecke, Nina Himmerkus, Jens Leipziger, Markus Bleich, Taka-aki Koshimizu, Michael Föhling, Alina Smorodchenko, Julia Shpak, Carolin Knappe, Julian Isermann, Niklas Ayasse, Katsumasa Kawahara, Jan Schmoranzner, Niclas Gimber, Alexander Paliege, Sebastian Bachmann, and Kerim Mutig

- 962 **Protein O-GlcNAcylation Is Essential for the Maintenance of Renal Energy Homeostasis and Function via Lipolysis during Fasting and Diabetes**
Sho Sugahara, Shinji Kume, Masami Chin-Kanasaki, Issei Tomita, Mako Yasuda-Yamahara, Kosuke Yamahara, Naoko Takeda, Norihisa Osawa, Motoko Yanagita, Shin-ichi Araki, and Hiroshi Maegawa

- 979 **Extrarenal Signs of Proximal Renal Tubular Acidosis Persist in Nonacidemic *Nbce1b/c*-Null Mice**
Emily E. Salerno, Sangita P. Patel, Aniko Marshall, Jordan Marshall, Thamer Alsufayan, Cheikh S. Alassane Mballo, Bianca N. Quade, and Mark D. Parker

- 990 ★ **Matching Human Unilateral AKI, a Reverse Translational Approach to Investigate Kidney Recovery after Ischemia**
Danielle E. Soranno, Hyo-Wook Gil, Lara Kirkbride-Romeo, Christopher Altmann, John R. Montford, Haichun Yang, Ani Levine, Jane Buchanan, and Sarah Faubel

- 1006 ★ **Nephrin Signaling Results in Integrin β 1 Activation**
Christopher Philipp Dlugos, Cara Picciotto, Carolin Lepa, Malte Krakow, Antje Stöber, Mee-Ling Eddy, Thomas Weide, Astrid Jeibmann, Michael P. Krahn, Veerle Van Marck, Jürgen Klingauf, Andrea Ricker, Roland Wedlich-Söldner, Hermann Pavenstädt, Christian Klämbt, and Britta George

- 1021 Podocyte-Specific Sialylation-Deficient Mice Serve as a Model for Human FSGS**
Kristina M. Niculovic, Linda Blume, Henri Wedekind, Elina Kats, Iris Albers, Stephanie Groos, Markus Abeln, Jessica Schmitz, Esther Beuke, Jan H. Bräsen, Anette Melk, Mario Schiffer, Birgit Weinhold, and Anja K. Münster-Kühnel

CLINICAL EPIDEMIOLOGY

- 1037 ★Types of Erythropoietin-Stimulating Agents and Mortality among Patients Undergoing Hemodialysis**
Yusuke Sakaguchi, Takayuki Hamano, Atsushi Wada, and Ikuto Masakane
• See related editorial by Drüeke and Massy (pp. 907–908).

- 1049 Changes in Albuminuria But Not GFR are Associated with Early Changes in Kidney Structure in Type 2 Diabetes**
Helen C. Looker, Michael Mauer, Pierre-Jean Saulnier, Jennifer L. Harder, Viji Nair, Carine M. Boustany-Kari, Paolo Guarneri, Jon Hill, Cordell A. Esplin, Matthias Kretzler, Robert G. Nelson, and Behzad Najafian

CLINICAL RESEARCH

- 1061 One-Time Fecal Immunochemical Screening for Advanced Colorectal Neoplasia in Patients with CKD (DETECT Study)**
Germaine Wong, Richard L. Hope, Kirsten Howard, Jeremy R. Chapman, Antoni Castells, Simon D. Roger, Michael J. Bourke, Petra Macaskill, Robin Turner, Gabrielle Williams, Wai Hon Lim, Charmaine E. Lok, Fritz Diekmann, Nicholas B. Cross, Shaundee Sen, Richard D.M. Allen, Steven J. Chadban, Carol A. Pollock, Allison Tong, Armando Teixeira-Pinto, Jean Y.H. Yang, Narelle Williams, Eric Hoi Kit Au, Anh Kieu, Laura James, and Jonathan C. Craig

- 1073 ★A Randomized Trial of Magnesium Oxide and Oral Carbon Adsorbent for Coronary Artery Calcification in Predialysis CKD**
Yusuke Sakaguchi, Takayuki Hamano, Yoshitsugu Obi, Chikako Monden, Tatsufumi Oka, Satoshi Yamaguchi, Isao Matsui, Nobuhiro Hashimoto, Ayumi Matsumoto, Karin Shimada, Yoshitsugu Takabatake, Atsushi

Takahashi, Jun-Ya Kaimori, Toshiki Moriyama, Ryohei Yamamoto, Masaru Horio, Koichi Yamamoto, Ken Sugimoto, Hiromi Rakugi, and Yoshitaka Isaka

- 1086 Renal Perfusion during Hemodialysis: Intradialytic Blood Flow Decline and Effects of Dialysate Cooling**
Raanan Marants, Elena Qirjazi, Claire J. Grant, Ting-Yim Lee, and Christopher W. McIntyre

- 1096 ★Effects of Nicotinamide and Lanthanum Carbonate on Serum Phosphate and Fibroblast Growth Factor-23 in CKD: The COMBINE Trial**
Joachim H. Ix, Tamara Isakova, Brett Larive, Kalani L. Raphael, Dominic S. Raj, Alfred K. Cheung, Stuart M. Sprague, Linda F. Fried, Jennifer J. Gassman, John P. Middleton, Michael F. Flessner, Geoffrey A. Block, and Myles Wolf
• See related editorial by Yeung et al. (pp. 909–910).

- 1109 ★Exome-Based Rare-Variant Analyses in CKD**
Sophia Cameron-Christie, Charles J. Wolock, Emily Groopman, Slavé Petrovski, Sitharthan Kamalakaran, Gundula Povysil, Dimitrios Vitsios, Mengqi Zhang, Jan Fleckner, Ruth E. March, Sahar Gelfman, Maddalena Marasa, Yifu Li, Simone Sanna-Cherchi, Krzysztof Kiryluk, Andrew S. Allen, Bengt C. Fellström, Carolina Haefliger, Adam Platt, David B. Goldstein, and Ali G. Gharavi

- 1123 Exostosin 1/Exostosin 2–Associated Membranous Nephropathy**
Sanjeev Sethi, Benjamin J. Madden, Hanna Debiec, M. Cristine Charlesworth, LouAnn Gross, Aishwarya Ravindran, Amber M. Hummel, Ulrich Specks, Fernando C. Fervenza, and Pierre Ronco

LETTER TO THE EDITOR

- 1137 CPR for OHCA Is Rarely Successful, and What Is “Success” Anyway?**
Samantha L. Gelfand, Nwamaka D. Eneanya, Amanda K. Leonberg-Yoo, and Jeffrey S. Berns

- 1138 Authors’ Reply**
Patrick H. Pun, Matthew E. Dupre, Clark Tyson, Sana M. Al-Khatib, and Christopher B. Granger