

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1787 **GATM Mutations Cause a Dominant Fibrillar Conformational Disease in Mitochondria—When Eternity Kills**

Pierre J. Courtoy and Patrick Henriët

- See related article by Reichold et al. (pp. 1849–1858).

- 1789 **Greater Burden of ESRD among Immigrants: Kwa nini?**

Deidra C. Crews

- See related article by Perl et al. (pp. 1948–1959).

- 1791 **Transformation in Immunosuppression: Are We Ready for it?**

Amtul Aala and Daniel C. Brennan

- See related article by Pascual et al. (pp. 1979–1991).

- 1793 **Leveraging Ancestral Heterogeneity to Map Shared Genetic Risk Loci in Pediatric Steroid-Sensitive Nephrotic Syndrome**

Rebecca Hjorten and Karl Skorecki

- See related article by Debiec et al. (pp. 2000–2013).

Perspective

- 1795 **Right Heart Failure—Unrecognized Cause of Cardiorenal Syndrome**

Shweta Bansal, Anand Prasad, and Stuart Linas

Reviews

- 1799 **Sirtuins in Renal Health and Disease**

Marina Morigi, Luca Perico, and Ariela Benigni

- 1810 **The Complexity and Heterogeneity of Monoclonal Immunoglobulin-Associated Renal Diseases**

Sanjeev Sethi, S. Vincent Rajkumar, and Vivette D. D'Agati

BASIC RESEARCH

- 1825 **IL-10 Receptor Signaling Empowers Regulatory T Cells to Control Th17 Responses and Protect from GN**

Paul Diefenhardt, Anna Nosko, Malte A. Kluger, Johannes V. Richter, Claudia Wegscheid, Yasushi Kobayashi, Gisa Tiegs, Samuel Huber, Richard A. Flavell, Rolf A.K. Stahl, and Oliver M. Steinmetz

- 1838 **The Calcium-Sensing Receptor Increases Activity of the Renal NCC through the WNK4-SPAK Pathway**

Silvana Bazúa-Valenti, Lorena Rojas-Vega, María Castañeda-Bueno, Jonatan Barrera-Chimal, Rocío Bautista, Luz G. Cervantes-Pérez, Norma Vázquez, Consuelo Plata, Adrián R. Murillo-de-Ozores, Lorenza González-Mariscal, David H. Ellison, Daniela Riccardi, Norma A. Bobadilla, and Gerardo Gamba

- 1849 ★ **Glycine Amidinotransferase (GATM), Renal Fanconi Syndrome, and Kidney Failure**

Markus Reichold, Enriko D. Klootwijk, Joerg Reinders, Edgar A. Otto, Mario Milani, Carsten Broeker, Chris Laing, Julia Wiesner, Sulochana Devi, Weibin Zhou, Roland Schmitt, Ines Tegtmeier, Christina Sterner, Hannes Doellerer, Kathrin Renner, Peter J. Oefner, Katja Dettmer, Johann M. Simbuerger, Ralph Witzgall, Horia C. Stanescu, Simona Dumitriu, Daniela Iancu, Vaksha Patel, Monika Mozere, Mehmet Tekman, Graciana Jaureguiberry, Naomi Issler, Anne Kesselheim, Stephen B. Walsh, Daniel P. Gale, Alexander J. Howie, Joana R. Martins, Andrew M. Hall, Michael Kasgharian, Kevin O'Brien, Carlos R. Ferreira, Paldeep S. Atwal, Mahim Jain, Alexander Hammers, Geoffrey Charles-Edwards, Chi-Un Choe, Dirk Isbrandt, Alberto Cebrian-Serrano, Ben Davies, Richard N. Sandford, Christopher Pugh, David S. Konecki, Sue Povey, Detlef Bockenhauer, Uta Lichter-Konecki, William A. Gahl, Robert J. Unwin, Richard Warth, and Robert Kleta

- See related editorial by Courtoy and Henriët (pp. 1787–1789).

1859 Cellular Origin and Functional Relevance of Collagen I Production in the Kidney
Simone Buchtler, Alexandra Grill, Stefanie Hofmarksrichter, Petra Stöckert, Gabriela Schiechl-Brachner, Manuel Rodriguez Gomez, Sophia Neumayer, Kathrin Schmidbauer, Yvonne Talke, Barbara M. Klinkhammer, Peter Boor, Alexander Medvinsky, Kerstin Renner, Hayo Castrop, and Matthias Mack

1875 Mechanisms of Crystalloid versus Colloid Osmosis across the Peritoneal Membrane
Johann Morelle, Amadou Sow, Charles-André Fustin, Catherine Fillée, Elvia Garcia-Lopez, Bengt Lindholm, Eric Goffin, Frédéric Vandemaele, Bengt Rippe, Carl M. Öberg, and Olivier Devuyst

1887 ★Epithelial and Endothelial Pannexin1 Channels Mediate AKI
Jakub Jankowski, Heather M. Perry, Christopher B. Medina, Liping Huang, Junlan Yao, Amandeep Bajwa, Ulrike M. Lorenz, Diane L. Rosin, Kodi S. Ravichandran, Brant E. Isakson, and Mark D. Okusa

1900 Caspase-3 Is a Pivotal Regulator of Microvascular Rarefaction and Renal Fibrosis after Ischemia-Reperfusion Injury
Bing Yang, Shanshan Lan, Mélanie Dieudé, Jean-Paul Sabo-Vatasescu, Annie Karakeussian-Rimbaud, Julie Turgeon, Shijie Qi, Lakshman Gunaratnam, Natalie Patey, and Marie-Josée Hébert

1917 A NOX4/TRPC6 Pathway in Podocyte Calcium Regulation and Renal Damage in Diabetic Kidney Disease
Daria V. Ilatovskaya, Gregory Blass, Oleg Palygin, Vladislav Levchenko, Tengis S. Pavlov, Michael N. Grzybowski, Kristen Winsor, Leonid S. Shuyskiy, Aron M. Geurts, Allen W. Cowley Jr., Lutz Birnbaumer, and Alexander Staruschenko

1928 Blocking Properdin Prevents Complement-Mediated Hemolytic Uremic Syndrome and Systemic Thrombophilia
Yoshiyasu Ueda, Takashi Miwa, Damodar Gullipalli, Sayaka Sato, Daisuke Ito, Hangsoo Kim, Matthew Palmer, and Wen-Chao Song

CLINICAL EPIDEMIOLOGY

1939 Serum 6-Bromotryptophan Levels Identified as a Risk Factor for CKD Progression
Adrienne Tin, Girish Nadkarni, Anne M. Evans, Cheryl A. Winkler, Erwin Bottinger, Casey M. Rebholz, Mark J. Samak, Lesley A. Inker, Andrew S. Levey, Michael S. Lipkowitz, Lawrence J. Appel, Dan E. Arking, Josef Coresh, and Morgan E. Grams

1948 ★ESRD among Immigrants to Ontario, Canada: A Population-Based Study
Jeffrey Perl, Eric McArthur, Vivian S. Tan, Danielle M. Nash, Amit X. Garg, Ziv Harel, Alvin H. Li, Manish M. Sood, Joel G. Ray, and Ron Wald
• See related editorial by Crews (pp. 1789–1790).

1960 ★Clinical and Pathology Findings Associate Consistently with Larger Glomerular Volume
Aleksandar Denic, Jerry Mathew, Venkata V. Nagineni, R. Houston Thompson, Bradley C. Leibovich, Lilach O. Lerman, John C. Lieske, Mariam P. Alexander, Joshua J. Augustine, Walter K. Kremers, and Andrew D. Rule

1970 Gabapentin and Pregabalin Use and Association with Adverse Outcomes among Hemodialysis Patients
Julie H. Ishida, Charles E. McCulloch, Michael A. Steinman, Barbara A. Grimes, and Kirsten L. Johansen

CLINICAL RESEARCH

1979 ★Everolimus with Reduced Calcineurin Inhibitor Exposure in Renal Transplantation
Julio Pascual, Stefan P. Berger, Oliver Witzke, Helio Tedesco, Shamkant Mulgaonkar, Yasir Qazi, Steven Chadban, Federico Oppenheimer, Claudia Sommerer, Rainer Oberbauer, Yoshihiko Watarai, Christophe Legendre, Franco Citterio, Mitchell Henry, Titte R. Srinivas, Wen-Lin Luo, AnaMaria Marti, Peter Bernhardt, Flavio Vincenti, on behalf of the TRANSFORM Investigators
• See related editorial by Aala and Brennan (pp. 1791–1792).

1992 Residual Function Effectively Controls Plasma Concentrations of Secreted Solutes in Patients on Twice Weekly Hemodialysis
Sheldon C. Leong, Justin N. Sao, Abigail Taussig, Natalie S. Plummer, Timothy W. Meyer, and Tammy L. Sirich

2000 ★Transethnic, Genome-Wide Analysis Reveals Immune-Related Risk Alleles and Phenotypic Correlates in Pediatric Steroid-Sensitive Nephrotic Syndrome
Hanna Debiec, Claire Dossier, Eric Letouzé, Christopher E. Gillies, Marina Vivarelli, Rosemary K. Putler, Elisabet Ars, Evelyne Jacqz-Aigrain, Valery Elie, Manuela Colucci, Stéphanie Debette, Philippe Amouyel, Siham C. Elalaoui, Abdelaziz Sefiani, Valérie Dubois, Tabassome Simon, Matthias Kretzler, Jose Ballarin, Francesco Emma, Matthew G. Sampson, Georges Deschênes, and Pierre Ronco
• See related editorial by Hjorten and Skorecki (pp. 1793–1794).

META-ANALYSIS

2015 Fibroblast Growth Factor-23 and Risks of Cardiovascular and Noncardiovascular Diseases: A Meta-Analysis

Amarnath Marthi, Killian Donovan, Richard Haynes, David C. Wheeler, Colin Baigent, Christopher

M. Rooney, Martin J. Landray, Sharon M. Moe, Jun Yang, Lisa Holland, Romina di Giuseppe, Annet Bouma-de Krijger, Borislava Mihaylova, and William G. Herrington

2028 ERRATUM