

This Month's Highlights

UP FRONT MATTERS

Editorials

1 **Cutting It Out: ENaC Processing in the Human Nephron**

Evan C. Ray and Thomas R. Kleyman

- See related article by Zachar et al. (pp. 95–106).

3 **Antagonism of Canonical Wnt/ β -Catenin Signaling: Taking RAS Blockade to the Next Level?**

Jürgen Floege

- See related article by Zhou et al. (pp. 107–120).

5 **Catheter Last, Fistula Not-So-First**

Jay B. Wish

- See related article by Drew et al. (pp. 183–191).

7 **The Biomarker Niche for Fibroblast Growth Factor 23 Testing in CKD**

Myles Wolf

- See related article by Rebholz et al. (pp. 192–200).

Brief Reviews

11 **Claudins and the Kidney**

Alan S.L. Yu

20 **Through a Glass Darkly: Seeking Clarity in Preventing Late Kidney Transplant Failure**

Mark D. Stegall, Robert S. Gaston, Fernando G. Cosio, and Arthur Matas

Special Article

31 **Successful Delivery of RRT in Ebola Virus Disease**

Michael J. Connor Jr, Colleen Kraft, Aneesh K. Mehta, Jay B. Varkey, G. Marshall Lyon, Ian Crozier, Ute Ströher, Bruce S. Ribner, and Harold A. Franch

BRIEF COMMUNICATIONS

39 **Tolvaptan plus Pasireotide Shows Enhanced Efficacy in a PKD1 Model**

Katharina Hopp, Cynthia J. Hommerding, Xiaofang Wang, Hong Ye, Peter C. Harris, and Vicente E. Torres

48 **Renin Lineage Cells Repopulate the Glomerular Mesangium after Injury**

Charlotte Starke, Hannah Betz, Linda Hickmann, Peter Lachmann, Björn Neubauer, Jeffrey B. Kopp, Maria Luisa S. Sequeira-Lopez, R. Ariel Gomez, Bernd Hohenstein, Vladimir T. Todorov, and Christian P.M. Hugo

BASIC RESEARCH

55 **★CXCL5 Drives Neutrophil Recruitment in T_H17 -Mediated GN**

Erik M. Disteldorf, Christian F. Krebs, Hans-Joachim Paust, Jan-Eric Turner, Geraldine Nouailles, André Tittel, Catherine Meyer-Schwesinger, Gesa Stege, Silke Brix, Joachim Velden, Thorsten Wiech, Udo Helmchen, Oliver M. Steinmetz, Anett Peters, Sabrina B. Bennstein, Anna Kaffke, Chrystel Llanto, Sergio A. Lira, Hans-Willi Mittrücker, Rolf A.K. Stahl, Christian Kurts, Stefan H.E. Kaufmann, and Ulf Panzer

67 **Recombination Signal Binding Protein for Ig- κ J Region Regulates Juxtaglomerular Cell Phenotype by Activating the Myo-Endocrine Program and Suppressing Ectopic Gene Expression**

Ruth M. Castellanos-Rivera, Ellen S. Pentz, Eugene Lin, Kenneth W. Gross, Silvia Medrano, Jing Yu, Maria Luisa S. Sequeira-Lopez, and R. Ariel Gomez

81 **★Collecting Duct-Derived Cells Display Mesenchymal Stem Cell Properties and Retain Selective *In Vitro* and *In Vivo* Epithelial Capacity**

Joan Li, Usukhbayar Ariunbold, Norseha Suhaimi, Nana Sunn, Jinjin Guo, Jill A. McMahon, Andrew P. McMahon, and Melissa Little

95 **The Epithelial Sodium Channel γ -Subunit Is Processed Proteolytically in Human Kidney**

Rikke M. Zachar, Karsten Skjødt, Niels Marcussen, Steen Walter, Anja Toft, Maria R. Nielsen, Boye L. Jensen, and Per Svenningsen

- See related editorial by Ray and Kleyman (pp. 1–3).

107 Multiple Genes of the Renin-Angiotensin System Are Novel Targets of Wnt/ β -Catenin Signaling
Lili Zhou, Yingjian Li, Sha Hao, Dong Zhou, Roderick J. Tan, Jing Nie, Fan Fan Hou, Michael Kahn, and Youhua Liu

- See related editorial by Floege (pp. 3–5).

121 Klotho Gene Deficiency Causes Salt-Sensitive Hypertension via Monocyte Chemotactic Protein-1/CC Chemokine Receptor 2–Mediated Inflammation
Xiaoli Zhou, Kai Chen, Han Lei, and Zhongjie Sun

133 ★Sphingomyelinase-Like Phosphodiesterase 3b Expression Levels Determine Podocyte Injury Phenotypes in Glomerular Disease
Tae-Hyun Yoo, Christopher E. Pedigo, Johanna Guzman, Mayrin Correa-Medina, Changli Wei, Rodrigo Villarreal, Alla Mitrofanova, Farah Leclercq, Christian Faul, Jing Li, Matthias Kretzler, Robert G. Nelson, Markku Lehto, Carol Forsblom, Per-Henrik Groop, Jochen Reiser, George William Burke, Alessia Fornoni, and Sandra Merscher

149 Adam10 Mediates the Choice between Principal Cells and Intercalated Cells in the Kidney
Qiusha Guo, Yinqiu Wang, Piyush Tripathi, Kalyan R. Manda, Malini Mukherjee, Malay Chaklader, Paul F. Austin, Kameswaran Surendran, and Feng Chen

160 Imaging Classification of Autosomal Dominant Polycystic Kidney Disease: A Simple Model for Selecting Patients for Clinical Trials
María V. Irazabal, Laureano J. Rangel, Eric J. Bergstralh, Sara L. Osborn, Amber J. Harmon, Jamie L. Sundsbak, Kyongtae T. Bae, Arlene B. Chapman, Jared J. Grantham, Michal Mrug, Marie C. Hogan, Ziad M. El-Zoghby, Peter C. Harris, Bradley J. Erickson, Bernard F. King, Vicente E. Torres, and the CRISP Investigators

173 A Pathogenetic Role for Endothelin-1 in Peritoneal Dialysis-Associated Fibrosis
Oscar Busnadiego, Jesús Loureiro-Álvarez, Pilar Sandoval, David Lagares, Javier Dotor, María Luisa Pérez-Lozano, María J. López-Armada, Santiago Lamas, Manuel López-Cabrera, and Fernando Rodríguez-Pascual

CLINICAL EPIDEMIOLOGY

183 Vascular Access Choice in Incident Hemodialysis Patients: A Decision Analysis
David A. Drew, Charmaine E. Lok, Joshua T. Cohen, Martin Wagner, Navdeep Tangri, and Daniel E. Weiner

- See related editorial by Wish (pp. 5–7).

192 Serum Fibroblast Growth Factor-23 Is Associated with Incident Kidney Disease
Casey M. Rebholz, Morgan E. Grams, Josef Coresh, Elizabeth Selvin, Lesley A. Inker, Andrew S. Levey, Paul L. Kimmel, Ramachandran S. Vasan, John H. Eckfeldt, Harold I. Feldman, Chi-yuan Hsu, Pamela L. Lutsey, for the Chronic Kidney Disease Biomarkers Consortium

- See related editorial by Wolf (pp. 7–9).

201 ★Population Income and Longitudinal Trends in Living Kidney Donation in the United States
Jagbir Gill, Jianghu Dong, and John Gill

CLINICAL RESEARCH

209 ★A Novel Atypical Hemolytic Uremic Syndrome–Associated Hybrid *CFHR1/CFH* Gene Encoding a Fusion Protein That Antagonizes Factor H–Dependent Complement Regulation
Elisabetta Valoti, Marta Alberti, Agustin Tortajada, Jesus Garcia-Fernandez, Sara Gastoldi, Luca Besso, Elena Bresin, Giuseppe Remuzzi, Santiago Rodriguez de Cordoba, and Marina Noris

220 Effect of Pentoxifylline on Renal Function and Urinary Albumin Excretion in Patients with Diabetic Kidney Disease: The PREDIAN Trial
Juan F. Navarro-González, Carmen Mora-Fernández, Mercedes Muros de Fuentes, Jesús Chahin, María L. Méndez, Eduardo Gallego, Manuel Macía, Nieves del Castillo, Antonio Rivero, María A. Getino, Patricia García, Ana Jarque, and Javier García

230 ★Heterogeneous Genetic Alterations in Sporadic Nephrotic Syndrome Associate with Resistance to Immunosuppression
Sabrina Giglio, Aldesia Provenzano, Benedetta Mazzinghi, Francesca Becherucci, Laura Giunti, Giulia Sansavini, Fiammetta Ravaglia, Rosa Maria Roperto, Silvia Farsetti, Elisa Benetti, Mario Rotondi, Luisa Murer, Elena Lazzeri, Laura Lasagni, Marco Materassi, and Paola Romagnani