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## **This Month's Highlights**

### **UP FRONT MATTERS**

#### **Editorials**

- 1433 ★ **Polycystin-2 in the Endoplasmic Reticulum: Bending Ideas about the Role of the Cilium**  
Michael J. Caplan  
• See related article by Padhy *et al.* (pp. 1501–1516).

- 1435 **Identifying Antigen-Specific T Cells in ANCA-Associated Vasculitis: A Glimpse of the Future?**  
Lani Shochet and A. Richard Kitching  
• See related article by Chen *et al.* (pp. 1517–1527).

- 1437 **Unfulfilled Expectations Open New Horizons: What Have We Learned about Volume-Regulated Anion Channels in the Kidney?**  
Oleh Pochynyuk and Oleg Palygin  
• See related article by López-Cayuqueo *et al.* (pp. 1528–1545).

#### **Perspectives**

- 1440 **Collaboration between Dialysis Providers**  
Jeffrey Silberzweig, J. Ganesh Bhat, Mary O. Dittrich, Raghu Durvasula, Jeff Giullian, Jeffrey L. Hymes, Doug Johnson, Brigitte Schiller, Richard Spech, Leslie Spry, Geoffrey Scott Walker, Suzanne Watnick, Jerry Yee, and Barry I. Freedman
- 1445 **Vaccination, Transplantation, and a Social Contract**  
Olivia S. Kates, Ajit P. Limaye, and Bruce Kaplan
- 1448 **High-Resolution Mass Spectrometry for the Measurement of PTH and PTH Fragments: Insights into PTH Physiology and Bioactivity**  
Candice Z. Ulmer, Kittrawee Kritmetapak, Ravinder J. Singh, Hubert W. Vesper, and Rajiv Kumar

#### **Special Article**

- 1459 **Optimizing the Design and Analysis of Future AKI Trials**  
Matthieu Legrand, Sean M. Bagshaw, Jay L. Koyner, Ivonne H. Schulman, Michael R. Mathis, Juliane Bernholz, Steven Coca, Martin Gallagher, Stéphane Gaudry, Kathleen D. Liu, Ravindra L. Mehta, Romain Pirracchio,

Abigail Ryan, Dominik Steubl, Norman Stockbridge, Fredrik Erlandsson, Alparslan Turan, F. Perry Wilson, Alexander Zarbock, Michael P. Bokoch, Jonathan D. Casey, Patrick Rossignol, and Michael O. Harhay

### **ADDRESSING RACIAL AND ETHNIC DISPARITIES IN KIDNEY DISEASE**

- 1471 **Housing: A Critical Contributor to Kidney Disease Disparities**  
Tessa K. Novick, and Mukta Baweja, on behalf of the American Society of Nephrology Healthcare Justice Committee Advocacy and Scholarship Work Group
- 1474 **Addressing Inequities in Kidney Care for Indigenous People in Canada**  
Oksana Harasemiw, Paul Komenda, and Navdeep Tangri

### **RAPID COMMUNICATION**

#### **Chronic Kidney Disease**

- 1477 **Targeted Disruption of a Proximal Tubule-Specific TMEM174 Gene in Mice Causes Hyperphosphatemia and Vascular Calcification**  
Shinobu Miyazaki-Anzai, Audrey L. Keenan, Judith Blaine, and Makoto Miyazaki

### **BASIC RESEARCH**

#### **Acute Kidney Injury**

- 1487 **Myeloid CCR2 Promotes Atherosclerosis after AKI**  
Anne M. Hüsing, Vera C. Wulfmeyer, Svenja Gaedcke, Susanne V. Fleig, Song Rong, David DeLuca, Hermann Haller, Roland Schmitt, and Sibylle von Vietinghoff

#### **Genetic Disease of the Kidney**

- 1501 ★ **Channel Function of Polycystin-2 in the Endoplasmic Reticulum Protects against Autosomal Dominant Polycystic Kidney Disease**  
Biswajit Padhy, Jian Xie, Runping Wang, Fang Lin, and Chou-Long Huang  
• See related editorial by Caplan (pp. 1433–1434).

### **Glomerulonephritis and Interstitial Nephritis**

#### **1517 Immunological Interaction of HLA-DPB1 and Proteinase 3 in ANCA Vasculitis is Associated with Clinical Disease Activity**

Dhruti P. Chen, Elizabeth A. McInnis, Eveline Y. Wu, Katherine G. Stember, Susan L. Hogan, Yichun Hu, Candace D. Henderson, Lauren N. Blazek, Simon Mallal, Edita Karosiene, Bjoern Peters, John Sidney, Eddie A. James, William W. Kwok, J. Charles Jennette, Dominic J. Ciavatta, Ronald J. Falk, and Meghan E. Free

• See related editorial by Shochet and Kitching (pp. 1435–1437).

### **Normal Kidney Structure and Function**

#### **1528 Renal Deletion of LRRC8/VRAC Channels Induces Proximal Tubulopathy**

Karen I. López-Cayuqueo, Rosa Planells-Cases, Matthias Pietzke, Anna Oliveras, Stefan Kempa, Sebastian Bachmann, and Thomas J. Jentsch

• See related editorial by Pochynyuk and Palygin (pp. 1437–1439).

#### **1546 Complementary Nck1/2 Signaling in Podocytes Controls $\alpha$ Actinin-4–Mediated Actin Organization, Adhesion, and Basement Membrane Composition**

Claire E. Martin, Noah J. Phippen, Ava Keyvani Chahi, Manali Tilak, Sara L. Banerjee, Peihua Lu, Laura A. New, Casey R. Williamson, Matthew J. Platt, Jeremy A. Simpson, Mira Krendel, Nicolas Bisson, Anne-Claude Gingras, and Nina Jones

### **CLINICAL RESEARCH**

#### **Chronic Kidney Disease**

#### **1569 ★Albuminuria-Lowering Effect of Dapagliflozin, Eplerenone, and Their Combination in Patients with Chronic Kidney Disease: A Randomized Crossover Clinical Trial**

Michele Provenzano, Maria Jesús Puchades, Carlo Garofalo, Niels Jongs, Luis D'Marco, Michele Andreucci, Luca De Nicola, Jose Luis Gorriz, and Hiddo J.L. Heerspink, on behalf of the ROTATE-3 study group

#### **1581 A Deep Learning Approach for Automated Segmentation of Kidneys and Exophytic Cysts in Individuals with Autosomal Dominant Polycystic Kidney Disease**

Youngwoo Kim, Cheng Tao, Hyungchan Kim, Geum-Yoon Oh, Jeongbeom Ko, and Kyongtae T. Bae

#### **1590 Coronary Artery Calcification Score and the Progression of Chronic Kidney Disease**

Hae-Ryong Yun, Young Su Joo, Hyung Woo Kim, Jung Tak Park, Tae Ik Chang, Nak-Hoon Son, Tae-Hyun Yoo, Shin-Wook Kang, Suah Sung,

Kyu-Beck Lee, Joongyub Lee, Kook-Hwan Oh, and Seung Hyeok Han, on behalf of the KoreaN Cohort Study for Outcomes in Patients With Chronic Kidney Disease (KNOW-CKD) investigators

### **Dialysis**

#### **1602 ★The Relationship between Cerebrovascular Reactivity and Cerebral Oxygenation during Hemodialysis**

Wesley T. Richerson, Brian D. Schmit, and Dawn F. Wolfgram

### **Transplantation**

#### **1613 A Composite End Point of Graft Status and eGFR at 1 Year to Improve the Scientific Registry of Transplant Recipients' Five-Tier Rating System**

Kaicheng Wang, Yanhong Deng, Darren Stewart, and Richard N. Formica Jr.

### **LETTERS TO THE EDITOR**

#### **1625 On the Importance of Considering Glycosylation When Evaluating Biologic Therapies**

Mathieu Lemaire

• See related reply, "Authors' Reply: On the Importance of Considering Glycosylation when Evaluating Biologic Therapies," on pages 1626–1627, and original article, "Human or Chimeric Monoclonal Anti-CD20 Antibodies for Children with Nephrotic Syndrome: A Superiority Randomized Controlled Trial," in Vol. 32, Iss. 10, on pages 2652–2663.

#### **1626 Authors' Reply: On the Importance of Considering Glycosylation when Evaluating Biologic Therapies**

Andrea Angeletti, Pietro Ravani, Maurizio Bruschi, and Gian Marco Ghiggeri

• See related letter to the editor, "On the Importance of Considering Glycosylation when Evaluating Biologic Therapies," on page 1625, and original article, "Human or Chimeric Monoclonal Anti-CD20 Antibodies for Children with Nephrotic Syndrome: A Superiority Randomized Controlled Trial," in Vol. 32, Iss. 10, on pages 2652–2663.

#### **1627 Serum Protein-Induced Tubular Injury**

W. Charles O'Neill

• See related reply, "Authors' Reply: Serum Protein-Induced Tubular Injury," on page 1627–1628, and original article, "Serum Protein Exposure Activates a Core Regulatory Program Driving Human Proximal Tubule Injury" in Vol. 33, Iss. 5, on pages 949–965.

#### **1627 Authors' Reply: Serum Protein-Induced Tubular Injury**

Kevin Lidberg, Jonathan Himmelfarb, Edward Kelly, and Shreeram Akilesh

• See related letter to the editor, "Serum Protein-Induced Tubular Injury," on page 1627, and original article, "Serum Protein Exposure Activates a Core Regulatory Program Driving Human Proximal Tubule Injury," in Vol. 33, Iss. 5, on pages 949–965.