This Month’s Highlights

UP FRONT MATTERS

Editorials

767 Microvascular Endothelial Cells Poised to Take Center Stage in Experimental Renal Fibrosis
Ilse Daehn and Erwin P. Bottinger
• See related article by Xavier et al. (pp. 817–829).

769 CD169⁺ Macrophages: Regulators of Neutrophil Trafficking to Injured Kidneys
Hee-Seong Jang, Hamid Rabb, and Babu J. Padanilam
• See related article by Karasawa et al. (pp. 896–906).

771 Understanding the Role of Rituximab in ANCA GN: Regressing toward the Mean
William F. Pendergraft III and Ronald J. Falk
• See related article by Geetha et al. (pp. 976–985).

774 β-Blockers in Dialysis Patients: A Nephrocardiology Perspective
Gautam R. Shroff and Charles A. Herzog
• See related article by Weir et al. (pp. 976–996).

Brief Review

777 Role of the Vascular Wall in Sodium Homeostasis and Salt Sensitivity
Rik H.G. Olde Engberink, Nienke M.G. Rorije, Jaap J. Homan van der Heide, Bert-Jan H. van den Bom, and Liffert Vogt

Pathophysiology of Renal Biopsy

784 IgD Heavy-Chain Deposition Disease: Detection by Laser Microdissection and Mass Spectrometry
Virginie Royal, Patrick Quint, Martine Leblanc, Richard LeBlanc, Garrett F. Duncanson, Robert L. Perrizo, Fernando C. Fervenza, Paul Curtin, and Sanjeev Sethi

Special Article

791 ASN Presidential Address 2014: Moving Past Nephrology’s Midlife Crisis
Sharon M. Moe

BRIEF COMMUNICATION

797 Urinary Tract Effects of HPSE2 Mutations

BASIC RESEARCH

805 MicroRNA-21 in Glomerular Injury

817 Curtailing Endothelial TGF-β Signaling Is Sufficient to Reduce Endothelial-Mesenchymal Transition and Fibrosis in CKD
Sandhya Xavier, Radovan Vasko, Kei Matsumoto, Joseph A. Zullo, Robert Chen, Julien Maizel, Praveen N. Chander, and Michael S. Goligorsky
• See related editorial by Daehn and Bottinger (pp. 767–769).

831 A Novel Missense Mutation of Wilms’ Tumor 1 Causes Autosomal Dominant FSGS
Gentzon Hall, Rasheed A. Gbadegesin, Peter Lavin, Guanghong Wu, Yangfan Liu, Edwin C. Oh, Liming Wang, Robert F. Spurney, Jason Eckel, Thomas Lindsey, Alison Homstad, Andrew F. Malone, Paul J. Phelan, Andrey Shaw, David N. Howell, Peter J. Conlon, Nicholas Katsanis, and Michelle P. Winn

Red star ★ indicates articles that are features in This Month’s Highlights.
WNK1 Activates Large-Conductance Ca\(^{2+}\)-Activated K\(^{+}\) Channels through Modulation of ERK1/2 Signaling
Yingli Liu, Xiang Song, Yanling Shi, Zhen Shi, Weihui Niu, Xiuyan Feng, Dingying Gu, Hui-Fang Bao, He-Ping Ma, Douglas C. Eaton, Jieqiu Zhuang, and Hui Cai

Platelets in Early Antibody-Mediated Rejection of Renal Transplants
Hsiao-Hsuan Kuo, Ran Fan, Nina Dvorina, Andres Chiesa-Vottero, and William M. Baldwin III

Endothelial Cilia Are Essential for Developmental Vascular Integrity in Zebrafish
Sowjanya Kallakuri, Jianxin A. Yu, Jade Li, Yuanyuan Li, Brant M. Weinstein, Stefania Nicoli, and Zhaoxia Sun

The Cardiovascular Effect of the Uremic Solute Indole-3 Acetic Acid
Laetitia Dou, Marion Sallée, Claire Cerini, Stéphane Poitevin, Bertrand Gondouin, Noémie Jourde-Chiche, Karim Fallague, Philippe Brunet, Raymond Calaf, Bertrand Dussol, Bernard Mallet, Françoise Dignat-George, and Stephanie Burty

Inactivation of Integrin-\(\beta\)1 Prevents the Development of Polycystic Kidney Disease after the Loss of Polycystin-1
Kyun Lee, Sylvia Boctor, Laura M.C. Barisoni, and G. Luca Gusella

Vascular-Resident CD169-Positive Monocytes and Macrophages Control Neutrophil Accumulation in the Kidney with Ischemia-Reperfusion Injury
Kazunori Karasawa, Kenichi Asano, Shigetaka Moriyama, Mikiko Ushiki, Misa Monya, Mayumi Iida, Erika Kuboki, Hideo Yagita, Keiko Uchida, Kosaku Nitta, and Masato Tanaka
  • See related editorial by Jang et al. (pp. 769–771).

Sphingosine 1-Phosphate Receptor-1 Enhances Mitochondrial Function and Reduces Cisplatin-Induced Tubule Injury

Activation of Protein Kinase C-\(\alpha\) and Src Kinase Increases Urea Transporter A1 \(\alpha\)-2, 6 Sialylation
Xuechen Li, Baoxue Yang, Minguang Chen, Janet D. Klein, Jeff M. Sands, and Guangping Chen

**CLINICAL EPIDEMIOLOGY**

Competitive Interaction Between Fibroblast Growth Factor 23 And Asymmetric Dimethylarginine in Patients With CKD
Giovanni Tripepi, Barbara Kollerits, Daniela Leonardis, Mahamut Ilker Yilmaz, Maurizio Postorino, Danilo Fliser, Francesca Mallamaci, Florian Kronenberg, and Carmine Zoccali

High-Sensitivity Troponin T and N-Terminal Pro-B-Type Natriuretic Peptide (NT-proBNP) and Risk of Incident Heart Failure in Patients with CKD: The Chronic Renal Insufficiency Cohort (CRIC) Study

**CLINICAL RESEARCH**

Randomized Clinical Trial of Dialysate Cooling and Effects on Brain White Matter
Mohamed T. Eldehni, Aghogho Odudu, and Christopher W. McIntyre

Persistent BK Viremia Does Not Increase Intermediate-Term Graft Loss but Is Associated with De Novo Donor-Specific Antibodies
Deirdre Sawinski, Kimberly A. Forde, Jennifer Trofe-Clark, Priyanka Patel, Beatriz Olivera, Simin Goral, and Roy D. Bloom

Rituximab Versus Cyclophosphamide for ANCA-Associated Vasculitis with Renal Involvement
Duvuru Geetha, Ulrich Specks, John H. Stone, Peter A. Merkel, Philip Seo, Robert Spiera, Carol A. Langford, Gary S. Hoffman, Cees G.M. Kallenberg, E. William St. Clair, Barri J. Fessler, Linna Ding, Nadia K. Tchao, David Ikle, Brett Jepson, Paul Brunet, and Fernando C. Fervenza, for the Rituximab for ANCA-Associated Vasculitis Immune Tolerance Network Research Group
  • See related editorial by Pendergraft and Falk (pp. 771–774).

\(\beta\)-Blocker Dialyzability and Mortality in Older Patients Receiving Hemodialysis
Matthew A. Weir, Stephanie N. Dixon, Jamie L. Fleet, Matthew A. Roberts, Daniel G. Hackam, Matthew J. Oliver, Rita S. Suri, Robert R. Quinn, Sundus Ozair, Michael M. Beyea, Abhijat Kitchlu, and Amit X. Garg
  • See related editorial by Shroff and Herzog (pp. 774–776).