

This Month's Highlights

UP FRONT MATTERS

Editorials

- 2009 **Glomerular Filtration Barrier and Molecular Segregation: Guilty as Charged?**
Steven J. Harper and David O. Bates
• See related article by Hausmann et al. (pp. 2053–2058).
- 2011 **A New Role for Charge of the Glomerular Capillary Membrane**
Scott C. Thomson and Roland C. Blantz
• See related article by Hausmann et al. (pp. 2053–2058).
- 2013 **Yet Another Advance in Understanding Albuminuria?**
Bruce A. Molitoris
• See related article by Gagliardini et al. (pp. 2081–2089).
- 2015 **Managing Overly Rapid Correction of Chronic Hyponatremia: An Ounce of Prevention or a Pound of Cure?**
Kamel S. Kamel and Mitchell L. Halperin
• See related articles by Suzuki et al. (pp. 2090–2098) and Gankam-Kengne et al. (pp. 2099–2108).
- 2017 **Prediction Modeling to Assess the Prognostic Significance of a Biomarker Panel**
Ann M. O'Hare and Kenneth E. Covinsky
• See related article by Fox et al. (pp. 2143–2149).

Brief Reviews

- 2020 **Proteinuria in Diabetes: Bystander or Pathway to Cardiorenal Disease?**
Janaka Karalliedde and Giancarlo Viberti
- 2028 **Updates on the Treatment of Lupus Nephritis**
Andrew S. Bomback and Gerald B. Appel

Science in Renal Medicine

- 2036 **The Effect of Fructose on Renal Biology and Disease**
Richard J. Johnson, L. Gabriela Sanchez-Lozada, and Takahiko Nakagawa

BRIEF COMMUNICATIONS

- 2041 **VHL Inactivation Induces HEF1 and Aurora Kinase A**
Jianyong Xu, Huapeng Li, Bo Wang, Yan Xu, Jiayin Yang, Xiaofei Zhang, Sarah K. Harten, Deepa Shukla, Patrick H. Maxwell, Duanqing Pei, and Miguel A. Esteban
- 2047 **Fibroblast Expression of an I κ B Dominant-Negative Transgene Attenuates Renal Fibrosis**
Tsutomu Inoue, Tsuneo Takenaka, Matsuhiko Hayashi, Toshiaki Monkawa, Jun Yoshino, Kouji Shimoda, Eric G. Neilson, Hiromichi Suzuki, and Hirokazu Okada
- 2053 **★ Electrical Forces Determine Glomerular Permeability**
Ralf Hausmann, Christoph Kuppe, Herbert Egger, Frank Schweda, Volker Knecht, Marlies Elger, Sylvia Menzel, Douglas Somers, Gerald Braun, Astrid Fuss, Sandra Uhlig, Wilhelm Kriz, George Tanner, Jürgen Floege, and Marcus J. Moeller
• See related editorials by Harper and Bates (pp. 2009–2011) and Thomson and Blantz (pp. 2011–2013).

BASIC RESEARCH

- 2059 **Adenylate Cyclase 6 Determines cAMP Formation and Aquaporin-2 Phosphorylation and Trafficking in Inner Medulla**
Timo Rieg, Tong Tang, Fiona Murray, Jana Schroth, Paul A. Insel, Robert A. Fenton, H. Kirk Hammond, and Volker Vallon

2069 **Epigenetic Histone Methylation Modulates Fibrotic Gene Expression**
Guangdong Sun, Marpadga A. Reddy, Hang Yuan, Linda Lanting, Mitsuo Kato, and Rama Natarajan

2081 ★ **Imaging of the Porous Ultrastructure of the Glomerular Epithelial Filtration Slit**
Elena Gagliardini, Sara Conti, Ariela Benigni, Giuseppe Remuzzi, and Andrea Remuzzi
• See related editorial by Molitoris (pp. 2013–2015).

2090 ★ **Minocycline Prevents Osmotic Demyelination Syndrome by Inhibiting the Activation of Microglia**
Haruyuki Suzuki, Yoshihisa Sugimura, Shintaro Iwama, Hiromi Suzuki, Ozaki Nobuaki, Hiroshi Nagasaki, Hiroshi Arima, Makoto Sawada, and Yutaka Oiso
• See related editorial by Kamel and Halperin (pp. 2015–2016) and related article by Gankam-Kengne et al. (pp. 2099–2108).

2099 ★ **Minocycline Protects against Neurologic Complications of Rapid Correction of Hyponatremia**
Fabrice Gankam-Kengne, Alain Soupart, Roland Pochet, Jean Pierre Brion, and Guy Decaux
• See related editorial by Kamel and Halperin (pp. 2015–2016) and related article by Suzuki et al. (pp. 2090–2098).

2109 ★ **Magnesium Modulates ROMK Channel-Mediated Potassium Secretion**
Lei Yang, Gustavo Frindt, and Lawrence G. Palmer

2117 **Molecular Basis of Decreased Kir4.1 Function in SeSAME/EAST Syndrome**
David M. Williams, Coeli M.B. Lopes, Avia Rosenhouse-Dantsker, Heather L. Connelly, Alessandra Matavel, Jin O-Uchi, Elena McBeath, and Daniel A. Gray

CLINICAL EPIDEMIOLOGY

2131 **Malnutrition-Inflammation Modifies the Relationship of Cholesterol with Cardiovascular Disease**
Gabriel Contreras, Bo Hu, Brad C. Astor, Tom Greene, Thomas Erlinger, John W. Kusek, Michael Lipkowitz, Julia A. Lewis, Otelio S. Randall, Lee Hebert, Jackson T. Wright, Jr., Cynthia A. Kendrick, Jennifer Gassman, George Bakris, Joel D. Kopple, and Lawrence J. Appel, for the African-American Study of Kidney Disease, and Hypertension Study Group

2143 **A Multi-Marker Approach to Predict Incident CKD and Microalbuminuria**
Caroline S. Fox, Philimon Gona, Martin G. Larson, Jacob Selhub, Geoffrey Toffler, Shih-Jen Hwang, James B. Meigs, Daniel Levy, Thomas J. Wang, Paul F. Jacques, Emelia J. Benjamin, and Ramachandran S. Vasani
• See related editorial by O'Hare and Covinsky (pp. 2017–2019).

CLINICAL RESEARCH

2151 **Inhibition of Prolyl Hydroxylases Increases Erythropoietin Production in ESRD**
Wanja M. Bernhardt, Michael S. Wiesener, Paul Scigalla, James Chou, Roland E. Schmieder, Volkmar Günzler, and Kai-Uwe Eckardt

2157 **The Anti-Fibrotic Effect of Mycophenolic Acid-Induced Neutral Endopeptidase**
Maria Pia Dell'Oglio, Gianluigi Zaza, Michele Rossini, Chiara Divella, Paola Pontrelli, Raffaella Verrienti, Monica Rutigliano, Pasquale Ditunno, Patrizia Stifanelli, Nicola Ancona, Francesco Paolo Schena, and Giuseppe Grandaliano

2169 ★ **Anti-Plasminogen Antibodies Compromise Fibrinolysis and Associate with Renal Histology in ANCA-Associated Vasculitis**
Annelies E. Berden, Sarah L. Nolan, Hannah L. Morris, Rogier M. Bertina, Dianhdra D. Erasmus, E. Christiaan Hagen, Donal P. Hayes, Nico H. van Tilburg, Jan A. Bruijn, Caroline O.S. Savage, Ingeborg M. Bajema, and Peter Hewins

2180 ★ **Clinical Features of Anti-Factor H Autoantibody-Associated Hemolytic Uremic Syndrome**
Marie-Agnès Dragon-Durey, Sidharth Kumar Sethi, Arvind Bagga, Caroline Blanc, Jacques Blouin, Bruno Ranchin, Jean-Luc André, Nobuaki Takagi, Hae Il Cheong, Pankaj Hari, Moglie Le Quintrec, Patrick Niaudet, Chantal Loirat, Wolf Herman Fridman, and Véronique Frémeaux-Bacchi