

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1391 TORCing up the Importance of Calcium Signaling**
Peter J. Lavin and Michelle P. Winn
• See related article by Vassiliadis et al. (pp. 1453–1461).
- 1393 Fibrosis, Regeneration, and Aging: Playing Chess with Evolution**
Vicente E. Torres and Edward B. Leof
• See related article by Iyoda et al. (pp. 1486–1496).
- 1396 Intradialytic Hypotension Strikes Again**
Richard A. Sherman and Toros Kapoian
• See related article by Chang et al. (pp. 1526–1533).
- 1398 The Achilles Heel of Mortality Risk by Dialysis Modality is Selection Bias**
Bernard G. Jaar
• See related article by Quinn et al. (pp. 1534–1542).
- 1400 Circulating Anti-PLA₂R Autoantibodies to Monitor Immunological Activity in Membranous Nephropathy**
Paolo Cravedi, Piero Ruggenti, and Giuseppe Remuzzi
• See related article by Beck et al. (pp. 1543–1550).
- #### **Brief Reviews**
- 1403 Retinal Abnormalities Characteristic of Inherited Renal Disease**
Judy Savige, Sujiva Ratnaike, and Deb Colville
- 1416 Succinate Receptors in the Kidney**
Peter M.T. Deen and Joris H. Robben

- 1423 Pathophysiology of the Renal Biopsy Adenovirus Interstitial Nephritis and Rejection in an Allograft**
Leroy Storsley and Ian W. Gibson

BRIEF COMMUNICATIONS

- 1429 Noninvasive Evaluation of Kidney Hypoxia and Fibrosis Using Magnetic Resonance Imaging**
Tsutomu Inoue, Eito Kozawa, Hirokazu Okada, Kouichi Inukai, Shinichi Watanabe, Tomohiro Kikuta, Yusuke Watanabe, Tsuneo Takenaka, Shigehiro Katayama, Junji Tanaka, and Hiromichi Suzuki
- 1435 Kidney Dendritic Cells Induce Innate Immunity against Bacterial Pyelonephritis**
André P. Tittel, Christoph Heuser, Christina Ohliger, Percy A. Knolle, Daniel R. Engel, and Christian Kurts

BASIC RESEARCH

- 1443 IRF4 Deficiency Abrogates Lupus Nephritis Despite Enhancing Systemic Cytokine Production**
Maciej Lech, Marc Weidenbusch, Onkar P. Kulkarni, Mi Ryu, Murthy Narayana Darisipudi, Heni Eka Susanti, Hans-Willi Mittruecker, Tak W. Mak, and Hans-Joachim Anders
- 1453 ★ Calcium Mediates Glomerular Filtration through Calcineurin and mTORC2/Akt Signaling**
John Vassiliadis, Christina Bracken, Douglas Matthews, Stephen O'Brien, Susan Schiavi, and Stefan Wawersik
• See related editorial by Lavin and Winn (1391–1393).

- 1462** **TGF- β /Smad3 Signaling Promotes Renal Fibrosis by Inhibiting miR-29**
Wei Qin, Arthur C.K. Chung, Xiao R. Huang, Xiao-Ming Meng, David S.C. Hui, Cheuk-Man Yu, Joseph J.Y. Sung, and Hui Y. Lan
- 1475** **IHG-1 Promotes Mitochondrial Biogenesis by Stabilizing PGC-1 α**
Fionnuala B. Hickey, James B. Corcoran, Neil G. Docherty, Brenda Griffin, Una Bhreathnach, Fiona Furlong, Finian Martin, Catherine Godson, and Madeline Murphy
- 1486** ★ **Nilotinib Attenuates Renal Injury and Prolongs Survival in Chronic Kidney Disease**
Masayuki Iyoda, Takanori Shibata, Yuki Hirai, Yoshihiro Kuno, and Tadao Akizawa
• See related editorial by Torres and Leaf (pp. 1393–1396).
- 1497** ★ **Identification of the Nephropathy-Susceptibility Locus *HIVAN4***
Sindhuri Prakash, Natalia Papeta, Roel Sterken, Zongyu Zheng, Robert L. Thomas, Zhenzhen Wu, John R. Sedor, Vivette D. D'Agati, Leslie A. Bruggeman, and Ali G. Gharavi
- 1505** **Endotoxin Uptake by S1 Proximal Tubular Segment Causes Oxidative Stress in the Downstream S2 Segment**
Rabih Kalakeche, Takashi Hato, Georges Rhodes, Kenneth W. Dunn, Tarek M. El-Achkar, Zoya Plotkin, Ruben M. Sandoval, and Pierre C. Dagher

CLINICAL EPIDEMIOLOGY

- 1517** ★ **GFR Normalized to Total Body Water Allows Comparisons across Genders and Body Sizes**
Bjørn O. Eriksen, Toralf Melsom, Ulla D. Mathisen, Trond G. Jenssen, Marit D. Solbu, and Ingrid Toft
- 1526** ★ **Intradialytic Hypotension and Vascular Access Thrombosis**
Tara I. Chang, Jane Paik, Tom Greene, Manisha Desai, Fritz Bech, Alfred K. Cheung, and Glenn M. Chertow
• See related editorial by Sherman and Kapoian (pp. 1396–1398).

- 1534** **Selection Bias Explains Apparent Differential Mortality between Dialysis Modalities**
Robert R. Quinn, Janet E. Hux, Matthew J. Oliver, Peter C. Austin, Marcello Tonelli, and Andreas Laupacis
• See related editorial by Jaar (pp. 1398–1400).

CLINICAL RESEARCH

- 1543** ★ **Rituximab-Induced Depletion of Anti-PLA₂R Autoantibodies Predicts Response in Membranous Nephropathy**
Laurence H. Beck, Jr., Fernando C. Fervenza, David M. Beck, Ramon G.B. Bonegio, Fahim A. Malik, Stephen B. Erickson, Fernando G. Cosio, Daniel C. Cattran, and David J. Salant
• See related editorial by Cravedi et al. (pp. 1400–1402).
- 1551** **Allelic Variants of Complement Genes Associated with Dense Deposit Disease**
Maria Asuncion Abrera-Abeleda, Carla Nishimura, Kathy Frees, Michael Jones, Tara Maga, Louis M. Katz, Yuzhou Zhang, and Richard J.H. Smith
- 1560** **Discriminants of Prevalent Fractures in Chronic Kidney Disease**
Thomas L. Nickolas, Serge Cremers, Amy Zhang, Valeri Thomas, Emily Stein, Adi Cohen, Ryan Chauncey, Lucas Nikkel, Michael T. Yin, Xiaowei S. Liu, Stephanie Boutroy, Ronald B. Staron, Mary B. Leonard, Donald J. McMahon, Elzbieta Dworakowski, and Elizabeth Shane