

## This Month's Highlights

### UP FRONT MATTERS

#### Editorials

**1869 Mitochondria in Kidney Injury: When the Power Plant Fails**

Chengyuan Tang and Zheng Dong

- See related articles by Suzuki et al. (pp. 1925–1932); and Tsuji et al. (pp. 2009–2020).

**1872 Water, Water Everywhere: A New Cause and a New Treatment for Nephrogenic Diabetes Insipidus**

Jeff M. Sands

- See related articles by Mamenko et al. (pp. 2035–2048); and de Groot et al. (pp. 2082–2091).

**1874 Unlocking the Value of Variation in CKD Prevalence**

Corri Black and Sabine N. van der Veer

- See related article by Brück et al. (pp. 2135–2147).

**1877 Dietary Protein as Kidney Protection: Quality or Quantity?**

Nimrit Goraya and Donald E. Wesson

- See related article by Garneata et al. (pp. 2164–2176).

#### Brief Reviews

**1880 Idiopathic Retroperitoneal Fibrosis**

Augusto Vaglio and Federica Maritati

**1890 Effect of Immunosuppressive Drugs on Humoral Allosensitization after Kidney Transplant**

Olivier Thaunat, Alice Koenig, Claire Leibler, and Philippe Grimbert

#### Special Article

**1902 Overcoming Barriers in Kidney Health—Forging a Platform for Innovation**

Peter G. Linde, Patrick Archdeacon, Matthew D. Breyer, Tod Ibrahim, Julia K. Inrig, Reshma Kewalramani, Celeste Castillo Lee, Carolyn Y. Neuland, Prabir Roy-Chaudhury, James A. Sloand, Rachel Meyer, Kimberly A. Smith, Jennifer Snook, Melissa West, and Ronald J. Falk

## Renal Biopsy with New Insights

**1911 Filgrastim-Induced Crescentic Transformation of Recurrent IgG2λ GN**

Ibrahim Batal, Glen S. Markowitz, Waichi Wong, Rupali Avasare, Markus Y. Mapara, Gerald B. Appel, and Vivette D. D'Agati

## BRIEF COMMUNICATIONS

**1917 ★ Inhibitor of NFκB Kinase Subunit 2 Blockade Hinders the Initiation but Aggravates the Progression of Crescentic GN**

Janine Gotot, Eveline Piotrowski, Martin S. Otte, André P. Tittel, Guo Linlin, Chen Yao, Karl Ziegelbauer, Ulf Panzer, Natalio Garbi, Christian Kurts, and Friedrich Thaiss

**1925 Mitochondrial Acid 5 Binds Mitochondria and Ameliorates Renal Tubular and Cardiac Myocyte Damage**

Takehiro Suzuki, Hiroaki Yamaguchi, Motoi Kikusato, Osamu Hashizume, Satoru Nagatoishi, Akihiro Matsuo, Takeya Sato, Tai Kudo, Tetsuro Matsuhashi, Kazutaka Murayama, Yuki Ohba, Shun Watanabe, Shin-ichiro Kanno, Daichi Minaki, Daisuke Saigusa, Hiroko Shinbo, Nobuyoshi Mori, Akinori Yuri, Miyuki Yokoro, Eikan Mishima, Hisato Shima, Yasutoshi Akiyama, Yoichi Takeuchi, Koichi Kikuchi, Takafumi Toyohara, Chitose Suzuki, Takaharu Ichimura, Jun-ichi Anzai, Masahiro Kohzaki, Nariyasu Mano, Shigeo Kure, Teruyuki Yanagisawa, Yoshihisa Tomioka, Masaaki Toyomizu, Kohei Tsumoto, Kazuto Nakada, Joseph V. Bonventre, Sadayoshi Ito, Hitoshi Osaka, Ken-ichi Hayashi, and Takaaki Abe

- See related editorial by Tang and Dong (pp. 1869–1872).

## BASIC RESEARCH

**1933 CXCR3<sup>+</sup> Regulatory T Cells Control T<sub>H</sub>1 Responses in Crescentic GN**

Hans-Joachim Paust, Jan-Hendrik Riedel, Christian F. Krebs, Jan-Eric Turner, Silke R. Brix, Sonja Krohn, Joachim Velden, Thorsten Wiech, Anna Kaffke, Anett Peters, Sabrina B. Bennstein, Sonja Kapffer, Catherine Meyer-Schwesinger, Claudia Wegscheid, Gisa Tiegs, Friedrich Thaiss, Hans-Willi Mittrücker, Oliver M. Steinmetz, Rolf A.K. Stahl, and Ulf Panzer

- 1943 Mammalian Target of Rapamycin Mediates Kidney Injury Molecule 1-Dependent Tubule Injury in a Surrogate Model**  
Wenqing Yin, Said Movahedi Naini, Guochun Chen, Dirk M. Hentschel, Benjamin D. Humphreys, and Joseph V. Bonventre
- 1958 2-Deoxy-D-Glucose Ameliorates PKD Progression**  
Marco Chiaravalli, Isaline Rowe, Valeria Mannella, Giacomo Quilici, Tamara Canu, Veronica Bianchi, Antonia Gurgone, Sofia Antunes, Patrizia D'Adamo, Antonio Esposito, Giovanna Musco, and Alessandra Boletta
- 1970 Using Population Genetics to Interrogate the Monogenic Nephrotic Syndrome Diagnosis in a Case Cohort**  
Matthew G. Sampson, Christopher E. Gillies, Catherine C. Robertson, Brendan Crawford, Virginia Vega-Warner, Edgar A. Otto, Matthias Kretzler, and Hyun Min Kang
- 1984 Hemovascular Progenitors in the Kidney Require Sphingosine-1-Phosphate Receptor 1 for Vascular Development**  
Yan Hu, Minghong Li, Joachim R. Göthert, R. Ariel Gomez, and Maria Luisa S. Sequeira-Lopez
- 1996 Megalin-Mediated Tubuloglomerular Alterations in High-Fat Diet-Induced Kidney Disease**  
Shoji Kuwahara, Michihiro Hosojima, Reika Kaneko, Hiroyuki Aoki, Daisuke Nakano, Taiji Sasagawa, Hideyuki Kabasawa, Ryohei Kaseda, Ryota Yasukawa, Tomomi Ishikawa, Akiyo Suzuki, Hiroyoshi Sato, Shun Kageyama, Takahiro Tanaka, Nobutaka Kitamura, Ichiei Narita, Masaaki Komatsu, Akira Nishiyama, and Akihiko Saito
- 2009 Role of Mitochondrial DNA in Septic AKI via Toll-Like Receptor 9**  
Naoko Tsuji, Takayuki Tsuji, Naro Ohashi, Akihiko Kato, Yoshihide Fujigaki, and Hideo Yasuda  
• See related editorial by Tang and Dong (pp. 1869–1872).
- 2021 ★The Histone Methyltransferase Enzyme Enhancer of Zeste Homolog 2 Protects against Podocyte Oxidative Stress and Renal Injury in Diabetes**  
Ferhan S. Siddiqi, Syamantak Majumder, Kerri Thai, Moustafa Abdalla, Pingzhao Hu, Suzanne L. Advani, Kathryn E. White, Bridgit B. Bowskill, Giuliana Guama, Claudia C. dos Santos, Kim A. Connolly, and Andrew Advani
- 2035 Defective Store-Operated Calcium Entry Causes Partial Nephrogenic Diabetes Insipidus**  
Mykola Mamenko, Isha Dhande, Viktor Tomilin, Oleg Zaika, Nabila Boukelmoune, Yaming Zhu, Manuel L. Gonzalez-Garay, Oleh Pochynyuk, and Peter A. Doris  
• See related editorial by Sands (pp. 1872–1874).
- 2049 Impaired Lysosomal Function Underlies Monoclonal Light Chain-Associated Renal Fanconi Syndrome**  
Alessandro Luciani, Christophe Sirac, Sara Terryn, Vincent Javaugue, Jenny Ann Prange, Sébastien Bender, Amélie Bonaud, Michel Cogné, Pierre Aucouturier, Pierre Ronco, Frank Bridoux, and Olivier Devuyst
- 2062 ★Intracellular Phosphate Dynamics in Muscle Measured by Magnetic Resonance Spectroscopy during Hemodialysis**  
Sandrine Lemoine, Thomas Fournier, Gabriel Kocevar, Amélie Belloi, Gabrielle Normand, Danielle Ibarrola, Dominique Sappey-Marinié, and Laurent Juillard
- 2069 Renal 2',3'-Cyclic Nucleotide 3'-Phosphodiesterase Is an Important Determinant of AKI Severity after Ischemia-Reperfusion**  
Edwin K. Jackson, Elizabeth V. Menshikova, Zaichuan Mi, Jonathan D. Verrier, Rashmi Bansal, Keri Janesko-Feldman, Travis C. Jackson, and Patrick M. Kochanek
- 2082 Acetazolamide Attenuates Lithium-Induced Nephrogenic Diabetes Insipidus**  
Theun de Groot, Anne P. Sinke, Marleen L.A. Kortenoeven, Mohammad Alsady, Ruben Baumgarten, Olivier Devuyst, Johannes Loffing, Jack F. Wetzels, and Peter M.T. Deen  
• See related editorial by Sands (pp. 1872–1874).
- 2092 Enhancer of Zeste Homolog 2 Inhibition Attenuates Renal Fibrosis by Maintaining Smad7 and Phosphatase and Tensin Homolog Expression**  
Xiaoxu Zhou, Xiujuan Zang, Murugavel Ponnusamy, Monica V. Masucci, Evelyn Tolbert, Rujun Gong, Ting C. Zhao, Na Liu, George Bayliss, Lance D. Dworkin, and Shougang Zhuang
- CLINICAL EPIDEMIOLOGY**
- 2109 Urine Injury Biomarkers and Risk of Adverse Outcomes in Recipients of Prevalent Kidney Transplants: The Folic Acid for Vascular Outcome Reduction in Transplantation Trial**  
Nisha Bansal, Myra A. Carpenter, Daniel E. Weiner, Andrew S. Levey, Marc Pfeffer, John W. Kusek, Jianwen Cai, Lawrence G. Hunsicker, Meyeon Park, Michael Bennett, Kathleen D. Liu, and Chi-yuan Hsu
- 2123 Racial and Ethnic Disparities in Use of and Outcomes with Home Dialysis in the United States**  
Rajnish Mehrotra, Melissa Soohoo, Matthew B. Rivara, Jonathan Himmelfarb, Alfred K. Cheung, Onyebuchi A. Arah, Allen R. Nissenson, Vanessa Ravel, Elani Streja, Sooraj Kuttykrishnan, Ronit Katz, Miklos Z. Molnar, and Kamyar Kalantar-Zadeh

- 2135 CKD Prevalence Varies across the European General Population**  
Katharina Brück, Vianda S. Stel, Giovanni Gambaro, Stein Hallan, Henry Völzke, Johan Ärnlöv, Mika Kastarinen, Idris Guessous, José Vinhas, Bénédicte Stengel, Hermann Brenner, Jerzy Chudek, Solfrid Romundstad, Charles Tomson, Alfonso Otero Gonzalez, Aminu K. Bello, Jean Ferrieres, Luigi Palmieri, Gemma Browne, Vincenzo Capuano, Wim Van Biesen, Carmine Zoccali, Ron Gansevoort, Gerjan Navis, Dietrich Rothenbacher, Pietro Manuel Ferraro, Dorothea Nitsch, Christoph Wanner, and Kitty J. Jager and on behalf of the European CKD Burden Consortium
- See related editorial by Black and van der Veer (pp. 1874–1877).
- 2148 ★Tubular Secretion in CKD**  
Astrid M. Suchy-Dacey, Thomas Laha, Andrew Hoofnagle, Rick Newitt, Tammy L. Sirich, Timothy W. Meyer, Ken E. Thummel, N. David Yanez, Jonathan Himmelfarb, Noel S. Weiss, and Bryan R. Kestenbaum
- CLINICAL RESEARCH**
- 2157 ★Utility of Prostate Cancer Screening in Kidney Transplant Candidates**  
Gerardo A. Vitiello, Blayne A. Sayed, Marla Wardenburg, Sebastian D. Perez, Christopher G. Keith, Daniel J. Canter, Kenneth Ogan, Thomas C. Pearson, and Nicole Turgeon
- 2164 Ketoanalogue-Supplemented Vegetarian Very Low-Protein Diet and CKD Progression**  
Liliana Garneata, Alexandra Stancu, Diana Dragomir, Gabriel Stefan, and Gabriel Mircescu
- See related editorial by Goraya and Wesson (pp. 1877–1879).
- 2177 Suitability of Patients with Autosomal Dominant Polycystic Kidney Disease for Renal Transcatheter Arterial Embolization**  
Tatsuya Suwabe, Yoshifumi Ubara, Koki Mise, Toshiharu Ueno, Keiichi Sumida, Masayuki Yamanouchi, Noriko Hayami, Junichi Hoshino, Masahiro Kawada, Aya Imafuku, Rikako Hiramatsu, Eiko Hasegawa, Naoki Sawa, and Kenmei Takaichi
- 2188 Tubuloreticular Inclusions in Renal Allografts Associate with Viral Infections and Donor-Specific Antibodies**  
Michelle Willicombe, Jill Moss, Linda Moran, Paul Brookes, Eva Santos-Nunez, Adam G. McLean, Thomas Cairns, David Taube, Terence H. Cook, and Candice Roufosse
- 2196 Change in Measured GFR Versus eGFR and CKD Outcomes**  
Elaine Ku, Dawei Xie, Michael Shlipak, Amanda Hyre Anderson, Jing Chen, Alan S. Go, Jiang He, Edward J. Horwitz, Mahboob Rahman, Ana C. Ricardo, James H. Sondheimer, Raymond R. Townsend, Chi-yuan Hsu, and the CRIC Study Investigators
- 2205 ★International Comparisons to Assess Effects of Payment and Regulatory Changes in the United States on Anemia Practice in Patients on Hemodialysis: The Dialysis Outcomes and Practice Patterns Study**  
Douglas S. Fuller, Brian A. Bieber, Ronald L. Pisoni, Yun Li, Hal Morgenstern, Tadao Akizawa, Stefan H. Jacobson, Francesco Locatelli, Friedrich K. Port, and Bruce M. Robinson
- 2216 ERRATUM**