

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1327 **Preventing the Progression of AKI to CKD: The Role of Mitochondria**

Sophie de Seigneux and Pierre-Yves Martin

- See related article by Szeto et al. (pp. 1437–1449).

- 1329 **The Use of Sildenafil for Glomerular Disease**

Nicholas J. Tardi and Jochen Reiser

- See related article by Sonneveld et al. (pp. 1491–1505).

- 1331 **Genetic Complexities of the HLA Region and Idiopathic Membranous Nephropathy**

Nikol Mladkova and Krzysztof Kiryluk

- See related articles by Le et al. (pp. 1642–1650); and Cui et al. (pp. 1651–1664).

- 1334 **Lesson Learned in Mortality and Kidney Transplant Outcomes among Pediatric Dialysis Patients**

Marciana Laster and Keith C. Norris

- See related article by Ku et al. (pp. 1584–1591).

Perspective

- 1337 **Decoding Acute Myocardial Infarction among Patients on Dialysis**

Charles E. Howard and Peter A. McCullough

Brief Reviews

- 1340 **Diagnosis and Treatment of Hyponatremia: Compilation of the Guidelines**

Ewout J. Hoorn and Robert Zietse

- 1350 **Immunologic Effects of the Renin-Angiotensin System**

Steven D. Crowley and Nathan P. Rudemiller

- 1362 **Novel Paradigms of Salt and Hypertension**

Wenguang Feng, Louis J. Dell'Italia, and Paul W. Sanders

Special Article

- 1370 **(Re)Building a Kidney**

Leif Oxburgh, Thomas J. Carroll, Ondine Cleaver, Daniel R. Gossett, Deborah K. Hoshizaki, Jeffrey A. Hubbell, Benjamin D. Humphreys, Sanjay Jain, Jan Jensen, David L. Kaplan, Carl Kesselman, Christian J. Ketchum, Melissa H. Little, Andrew P. McMahon, Stuart J. Shankland, Jason R. Spence, M. Todd Valerius, Jason A. Wertheim, Oliver Wessely, Ying Zheng, and Iain A. Drummond

Clinical Commentary

- 1379 **Trends in Discharge Claims for Acute Myocardial Infarction among Patients on Dialysis**

Gautam R. Shroff, Shuling Li, and Charles A. Herzog

BRIEF COMMUNICATIONS

- 1385 **Genomic Analysis of Kidney Allograft Injury Identifies Hematopoietic Cell Kinase as a Key Driver of Renal Fibrosis**

Chengguo Wei, Li Li, Madhav C. Menon, Weijia Zhang, Jia Fu, Brian Kidd, Karen L. Keung, Christopher Woytovich, Ilana Greene, Wenzhen Xiao, Fadi Salem, Zhengzi Yi, John Cijiang He, Joel T. Dudley, and Barbara Murphy

- 1394 ★ **The Urine Preservative Acetic Acid Degrades Urine Protein: Implications for Urine Biorepositories and the AASK Cohort Study**

Salem Almaani, Lee A. Hebert, Brad H. Rovin, and Daniel J. Birmingham

BASIC RESEARCH

- 1399 **Kidney Tubular Ablation of *Ocr1/Inpp5b* Phenocopies Lowe Syndrome Tubulopathy**
- Kazunori Inoue, Daniel M. Balkin, Lijuan Liu, Ramiro Nandez, Yumei Wu, Xuefei Tian, Tong Wang, Robert Nussbaum, Pietro De Camilli, and Shuta Ishibe

- 1408 ★ **Investigations of Glucocorticoid Action in GN**
- Christoph Kuppe, Claudia van Roeyen, Katja Leuchtle, Nazanin Kabgani, Michael Vogt, Marc Van Zandvoort, Bart Smeets, Jürgen Floege, Hermann-Josef Gröne, and Marcus J. Moeller

- 1421** ★ **Beneficial Effects of Myo-Inositol Oxygenase Deficiency in Cisplatin-Induced AKI**
Rajesh K. Dutta, Vinay K. Kondeti, Isha Sharma, Navdeep S. Chandel, Susan E. Quaggin, and Yashpal S. Kanwar
- 1437** **Mitochondria Protection after Acute Ischemia Prevents Prolonged Upregulation of IL-1 β and IL-18 and Arrests CKD**
Hazel H. Szeto, Shaoyi Liu, Yi Soong, Surya V. Seshan, Leona Cohen-Gould, Viacheslav Manichev, Leonard C. Feldman, and Torgny Gustafsson
• See related editorial by de Seigneux and Martin (pp. 1327–1329).
- 1450** **Depletion of Gut Microbiota Protects against Renal Ischemia-Reperfusion Injury**
Diba Emal, Elena Rampanelli, Ingrid Stroo, Loes M. Butter, Gwendoline J. Teske, Nike Claessen, Geurt Stokman, Sandrine Florquin, Jaklien C. Leemans, and Mark C. Dessing
- 1462** ★ **Moss-Produced, Glycosylation-Optimized Human Factor H for Therapeutic Application in Complement Disorders**
Stefan Michelfelder, Juliana Parsons, Lennard L. Bohlender, Sebastian N.W. Hoernstein, Holger Niederkrüger, Andreas Busch, Nicola Krieghoff, Jonas Koch, Benjamin Fode, Andreas Schaaf, Thomas Frischmuth, Martin Pohl, Peter F. Zipfel, Ralf Reski, Eva L. Decker, and Karsten Häffner
- 1475** **NF κ B-Induced Periostin Activates Integrin- β 3 Signaling to Promote Renal Injury in GN**
Niki Prakoura, Panagiotis Kavvadas, Raphaël Kormann, Jean-Claude Dussaule, Christos E. Chadjichristos, and Christos Chatziantoniou
- 1491** **Sildenafil Prevents Podocyte Injury via PPAR- γ -Mediated TRPC6 Inhibition**
Ramon Sonneveld, Joost G. Hoenderop, Andrea M. Isidori, Carole Henique, Henry B. Dijkman, Jo H. Berden, Pierre-Louis Tharaux, Johan van der Vlag, and Tom Nijenhuis
• See related editorial by Tardi and Reiser (pp. 1329–1331).
- 1507** **Intercalated Cell Depletion and Vacuolar H⁺-ATPase Mistargeting in an Ae1 R607H Knockin Model**
Rizwan Mumtaz, Francesco Trepiccione, J. Christopher Hennings, Antje K. Huebner, Bettina Serbin, Nicolas Picard, A. K. M. Shahid Ullah, Teodor G. Păunescu, Diane E. Capen, Rawad M. Lashhab, Isabelle Mouro-Chanteloup, Seth L. Alper, Carsten A. Wagner, Emmanuelle Cordat, Dennis Brown, Dominique Eladari, and Christian A. Hübner
- 1521** **Modeling Monogenic Human Nephrotic Syndrome in the *Drosophila* Garland Cell Nephrocyte**
Tobias Hermle, Daniela A. Braun, Martin Helmstädter, Tobias B. Huber, and Friedhelm Hildebrandt
- 1534** **High-Fat Diet-Induced Lysosomal Dysfunction and Impaired Autophagic Flux Contribute to Lipotoxicity in the Kidney**
Takeshi Yamamoto, Yoshitsugu Takabatake, Atsushi Takahashi, Tomonori Kimura, Tomoko Namba, Jun Matsuda, Satoshi Minami, Jun-ya Kaimori, Isao Matsui, Taiji Matsusaka, Fumio Niimura, Motoko Yanagita, and Yoshitaka Isaka
- CLINICAL EPIDEMIOLOGY**
- 1553** **Genetic Variants Associated with Circulating Parathyroid Hormone**
Cassianne Robinson-Cohen, Pamela L. Lutsey, Marcus E. Kleber, Carrie M. Nielson, Braxton D. Mitchell, Joshua C. Bis, Karen M. Eny, Laura Portas, Joel Eriksson, Mattias Lorentzon, Daniel L. Koller, Yuri Milaneschi, Alexander Teumer, Stefan Pilz, Maria Nethander, Elizabeth Selvin, Weihong Tang, Lu-Chen Weng, Hoi Suen Wong, Dongbing Lai, Munro Peacock, Anke Hannemann, Uwe Völker, Georg Homuth, Matthias Nauk, Federico Murgia, Jack W. Pattee, Eric Orwoll, Joseph M. Zmuda, Jose Antonio Riancho, Myles Wolf, Frances Williams, Brenda Penninx, Michael J. Econs, Kathleen A. Ryan, Claes Ohlsson, Andrew D. Paterson, Bruce M. Psaty, David S. Siscovick, Jerome I. Rotter, Mario Pirastu, Elizabeth Streeten, Winfried März, Caroline Fox, Josef Coresh, Henri Wallaschofski, James S. Pankow, Ian H. de Boer, and Bryan Kestenbaum
- 1566** **Pregnancy Outcomes after Clinical Recovery from AKI**
Jessica Sheehan Tangren, Camille E. Powe, Elizabeth Ankers, Jeffrey Ecker, Kate Bramham, Michelle A. Hladunewich, S. Ananth Karumanchi, and Ravi Thadhani
- 1575** **Dementia and Alzheimer's Disease among Older Kidney Transplant Recipients**
Mara A. McAdams-DeMarco, Sunjae Bae, Nadia Chu, Alden L. Gross, Charles H. Brown IV, Esther Oh, Paul Rosenberg, Karin J. Neufeld, Ravi Varadhan, Marilyn Albert, Jeremy Walston, and Dorry L. Segev
- 1584** **Racial and Ethnic Disparities in Survival of Children with ESRD**
Elaine Ku, Charles E. McCulloch, Barbara A. Grimes, and Kirsten L. Johansen
• See related editorial by Laster and Norris (pp. 1334–1336).

- 1592 Urine Osmolality, Response to Tolvaptan, and Outcome in Autosomal Dominant Polycystic Kidney Disease: Results from the TEMPO 3:4 Trial**
Olivier Devuyst, Arlene B. Chapman, Ron T. Gansevoort, Eiji Higashihara, Ronald D. Perrone, Vicente E. Torres, Jaime D. Blais, Wen Zhou, John Ouyang, and Frank S. Czerwiec

CLINICAL RESEARCH

- 1603 Anti-Factor B and Anti-C3b Autoantibodies in C3 Glomerulopathy and Ig-Associated Membranoproliferative GN**
Maria Chiara Marinozzi, Lubka T. Roumenina, Sophie Chauvet, Alexandre Hertig, Dominique Bertrand, Jérôme Olagne, Marie Frimat, Tim Ulinski, Georges Deschênes, Stephane Burtey, Michel Delahousse, Bruno Moulin, Christophe Legendre, Véronique Frémeaux-Bacchi, and Moglie Le Quintrec
- 1614 MAGI2 Mutations Cause Congenital Nephrotic Syndrome**
Agnieszka Bierzynska, Katrina Soderquest, Philip Dean, Elizabeth Colby, Ruth Rollason, Caroline Jones, Carol D. Inward, Hugh J. McCarthy, Michael A. Simpson, Graham M. Lord, Maggie Williams, Gavin I. Welsh, Ania B. Koziell, and Moin A. Saleem on behalf of NephroS, the UK study of Nephrotic Syndrome
- 1622 ★Clot Structure: A Potent Mortality Risk Factor in Patients on Hemodialysis**
Katharina Schuett, Anna Savvaïdis, Sebastian Maxeiner, Katharina Lysaja, Vera Jankowski, Stephan H. Schirmer, Nada Dimkovic, Peter Boor, Nadine

Kaesler, Friedo W. Dekker, Jürgen Floege, Nikolaus Marx, and Georg Schlieper

- 1631 ★Characterization of Classical and Nonclassical Fabry Disease: A Multicenter Study**
Maarten Arends, Christoph Wanner, Derralynn Hughes, Atul Mehta, Daniel Oder, Oliver T. Watkinson, Perry M. Elliott, Gabor E. Linthorst, Frits A. Wijburg, Marieke Biegstraaten, and Carla E. Hollak
- 1642 HLA-DRB1*15:01 and HLA-DRB3*02:02 in PLA2R-Related Membranous Nephropathy**
Wei-Bo Le, Jing-Song Shi, Tao Zhang, Lei Liu, Hua-Zhang Qin, ShaoShan Liang, Yuan-Wei Zhang, Cun-Xia Zheng, Song Jiang, Wei-Song Qin, Hai-Tao Zhang, and Zhi-Hong Liu
- See related editorial by Mladkova and Kiryluk (pp. 1331–1334).
- 1651 MHC Class II Risk Alleles and Amino Acid Residues in Idiopathic Membranous Nephropathy**
Zhao Cui, Li-jun Xie, Fang-jin Chen, Zhi-yong Pei, Li-jie Zhang, Zhen Qu, Jing Huang, Qiu-hua Gu, Yi-miao Zhang, Xin Wang, Fang Wang, Li-qiang Meng, Gang Liu, Xu-jie Zhou, Li Zhu, Ji-cheng Lv, Fan Liu, Hong Zhang, Yun-hua Liao, Lu-hua Lai, Pierre Ronco, and Ming-hui Zhao
- See related editorial by Mladkova and Kiryluk (pp. 1331–1334).
- 1665 ERRATUM**