

This Month's Highlights

**UP FRONT MATTERS**

**Editorials**

- 2481 **PPAR $\gamma$  Agonists, Modulation of Ion Transporters, and Fluid Retention**  
Charity Nofziger and Bonnie L. Blazer-Yost
- 2483 **Harnessing Transporters to Clear Uremic Toxins**  
Orson W. Moe  
• See related article by Toyohara et al. (pp. 2546–2555).
- 2485 **Cystin, Cilia, and Cysts: Unraveling Trafficking Determinants**  
Toby W. Hurd and Ben Margolis  
• See related article by Tao et al. (pp. 2570–2580).
- 2486 **It's about Time: Extending our Understanding of Cardiovascular Risk from Chronic Kidney Disease**  
Ann Young and Amit X. Garg  
• See related article by Shlipak et al. (pp. 2625–2630).
- 2487 **Aldosterone Blockade in Diabetic Nephropathy: Relative Risks and Potential Promise**  
Mario F. Rubin and Raymond R. Townsend  
• See related article by Mehdi et al. (pp. 2641–2650).
- Clinical Commentary**
- 2490 **Significance and Management of Proteinuria in Kidney Transplant Recipients**  
Hatem Amer and Fernando G. Cosio
- Brief Review**
- 2493 **The Role of the Mammalian Target Of Rapamycin (mTOR) in Renal Disease**  
Wilfred Lieberthal and Jerrold S. Levine

**Special Article**

- 2503 **Mouse Models of Diabetic Nephropathy**  
Frank C. Brosius, III, Charles E. Alpers, Erwin P. Bottinger, Matthew D. Breyer, Thomas M. Coffman, Susan B. Gurley, Raymond C. Harris, Masao Kakoki, Matthias Kretzler, Edward H. Leiter, Moshe Levi, Richard A. McIndoe, Kumar Sharma, Oliver Smithies, Katalin Susztak, Nobuyuki Takahashi, and Takamune Takahashi, for the Animal Models of Diabetic Complications Consortium

**BRIEF COMMUNICATIONS**

- 2513 **The von Hippel Lindau Tumor Suppressor Limits Longevity**  
Roman-Ulrich Müller, Francesca Fabretti, Sibylle Zank, Volker Burst, Thomas Benzing, and Bernhard Schermer
- 2518 **Th1 and Th17 Cells Induce Proliferative Glomerulonephritis**  
Shaun A. Summers, Oliver M. Steinmetz, Ming Li, Joshua Y. Kausman, Timothy Semple, Kristy L. Edgton, Dorin-Bogdan Borza, Hal Braley, Stephen R. Holdsworth, and A. Richard Kitching

**BASIC RESEARCH**

- 2525 **Three-Dimensional Imaging Reveals Ureteric and Mesenchymal Defects in *Fgfr2*-Mutant Kidneys**  
Sunder Sims-Lucas, Christos Argyropoulos, Kayle Kish, Kirk McHugh, John F. Bertram, Raymond Quigley, and Carlton M. Bates
- 2534 **Phosphorylation of Nephritin Triggers Its Internalization by Raft-Mediated Endocytosis**  
Xiao-Song Qin, Hiroyasu Tsukaguchi, Akemi Shono, Akitsugu Yamamoto, Hidetake Kurihara, and Toshio Doi

- 2546 ★ SLCO4C1 Transporter Eliminates Uremic Toxins and Attenuates Hypertension and Renal Inflammation**  
Takafumi Toyohara, Takehiro Suzuki, Ryo Morimoto, Yasutoshi Akiyama, Tomokazu Souma, Hiromi O. Shiwaku, Yoichi Takeuchi, Eikan Mishima, Michiaki Abe, Masayuki Tanemoto, Satohiro Masuda, Hiroaki Kawano, Koji Maemura, Masaaki Nakayama, Hiroshi Sato, Tsuyoshi Mikkaichi, Hiroaki Yamaguchi, Shigefumi Fukui, Yoshihiro Fukumoto, Hiroaki Shimokawa, Ken-ichi Inui, Tetsuya Terasaki, Junichi Goto, Sadayoshi Ito, Takanori Hishinuma, Isabelle Rubera, Michel Tauc, Yoshiaki Fujii-Kuriyama, Hikaru Yabuuchi, Yoshinori Moriyama, Tomoyoshi Soga, and Takaaki Abe  
• See related editorial by Moe (pp. 2483–2484).
- 2556 Conditional Mutation of Pkd2 Causes Cystogenesis and Upregulates  $\beta$ -Catenin**  
Ingyu Kim, Tianbing Ding, Yulong Fu, Cunxi Li, Lan Cui, Ao Li, Peiwen Lian, Dan Liang, Dao W. Wang, Caiying Guo, Jie Ma, Ping Zhao, Robert J. Coffey, Qimin Zhan, and Guanqing Wu
- 2570 Cystin Localizes to Primary Cilia via Membrane Microdomains and a Targeting Motif**  
Binli Tao, Su Bu, Zhihua Yang, Brian Siroky, John C. Kappes, Andreas Kispert, and Lisa M. Guay-Woodford  
• See related editorial by Hurd and Margolis (pp. 2485–2486).
- 2581 ★ Circulating CSF-1 Promotes Monocyte and Macrophage Phenotypes that Enhance Lupus Nephritis**  
Julia Menke, Whitney A. Rabacal, Katelyn T. Byrne, Yasunori Iwata, Melvin M. Schwartz, E. Richard Stanley, Andreas Schwarting, and Vicki R. Kelley
- 2593 Renal Progenitor Cells Contribute to Hyperplastic Lesions of Podocytopathies and Crescentic Glomerulonephritis**  
Bart Smeets, Maria Lucia Angelotti, Paola Rizzo, Henry Dijkman, Elena Lazzeri, Fieke Mooren, Lara Ballerini, Eliana Parente, Costanza Sagrinati, Benedetta Mazzinghi, Elisa Ronconi, Francesca Becherucci, Ariela Benigni, Eric Steenbergen, Laura Lasagni, Giuseppe Remuzzi, Jack Wetzels, and Paola Romagnani
- 2604 ★ Tracing the Origin of Glomerular Extracapillary Lesions from Parietal Epithelial Cells**  
Bart Smeets, Sandra Uhlig, Astrid Fuss, Fieke Mooren, Jack F.M. Wetzels, Jürgen Floege, and Marcus J. Moeller
- CLINICAL EPIDEMIOLOGY**
- 2617 ★ Change in Estimated GFR Associates with Coronary Heart Disease and Mortality**  
Kunihiro Matsushita, Elizabeth Selvin, Lori D. Bash, Nora Franceschini, Brad C. Astor, and Josef Coresh
- 2625 Rapid Decline of Kidney Function Increases Cardiovascular Risk in the Elderly**  
Michael G. Shlipak, Ronit Katz, Bryan Kestenbaum, David Siscovick, Linda Fried, Anne Newman, Dena Rifkin, and Mark J. Sarnak  
• See related editorial by Young and Garg (pp. 2486–2487).
- 2631 ★ 25-Hydroxyvitamin D Levels, Race, and the Progression of Kidney Disease**  
Michal L. Melamed, Brad Astor, Erin D. Michos, Thomas H. Hostetter, Neil R. Powe, and Paul Muntner
- CLINICAL RESEARCH**
- 2641 ★ Addition of Angiotensin Receptor Blockade or Mineralocorticoid Antagonism to Maximal Angiotensin-Converting Enzyme Inhibition in Diabetic Nephropathy**  
Uzma F. Mehdi, Beverley Adams-Huet, Philip Raskin, Gloria L. Vega, and Robert D. Toto  
• See related editorial by Rubin and Townsend (pp. 2487–2489).
- 2651 Left Ventricular Geometry Predicts Cardiovascular Outcomes Associated with Anemia Correction in CKD**  
Kai-Uwe Eckardt, Armin Scherhag, Iain C. Macdougall, Dimitrios Tsakiris, Naomi Clyne, Francesco Locatelli, Michael F. Zaugg, Hans U. Burger, and Tilman B. Drueke
- 2661 CMV Seropositivity Determines Epoetin Dose and Hemoglobin Levels in Patients with CKD**  
Michiel G.H. Betjes, Willem Weimar, and Nicolle H.R. Litjens