

## This Month's Highlights

## UP FRONT MATTERS

### Editorials

- 1131 **The Proximal Tubule in Cystinosis: Fight or Flight?**  
Robert L. Chevalier

• See related articles by Gaide Chevronnay et al. (pp. 1256–1269); and Prencipe et al. (pp. 1163–1169).

- 1133 **Does the Greater Omentum (“Policeman of the Abdomen”) Possess Therapeutic Utility in CKD?**  
Christof Westenfelder

• See related article by Garcia-Gomez et al. (pp. 1270–1281).

- 1135 **Health Insurance, Access to Care, and ESRD: An Intricate Web**

Rajnish Mehrotra and Larry Kessler

• See related article by Kurella-Tamura et al. (pp. 1321–1329).

- 1137 **Phospholipase A2 Receptor Antibodies in Membranous Nephropathy: Unresolved Issues**  
Julia M. Hofstra and Jack F.M. Wetzels

• See related article by Hoxha et al. (pp. 1357–1366).

### Brief Reviews

- 1140 **Vasopressin-2 Receptor Signaling and Autosomal Dominant Polycystic Kidney Disease: From Bench to Bedside and Back Again**

Markus M. Rinschen, Bernhard Schermer, and Thomas Benzing

- 1148 **Mechanism of Salt-Sensitive Hypertension: Focus on Adrenal and Sympathetic Nervous Systems**  
Toshiro Fujita

## BRIEF COMMUNICATIONS

- 1157 ★ **Formoterol Restores Mitochondrial and Renal Function after Ischemia-Reperfusion Injury**  
Sean R. Jesinkey, Jason A. Funk, L. Jay Stallons, Lauren P. Wills, Judit K. Megyesi, Craig C. Beeson, and Rick G. Schnellmann

- 1163 **Inflammasome Activation by Cystine Crystals: Implications for the Pathogenesis of Cystinosis**  
Giusi Prencipe, Ivan Caiello, Stephanie Cherqui, Thomas Whisenant, Stefania Petrini, Francesco Emma, and Fabrizio De Benedetti
- See related editorial by Chevalier (pp. 1131–1132).

## BASIC RESEARCH

- 1171 **Thrombospondin-1 Activation of Signal-Regulatory Protein- $\alpha$  Stimulates Reactive Oxygen Species Production and Promotes Renal Ischemia Reperfusion Injury**

Mingyi Yao, Natasha M. Rogers, Gábor Csányi, Andres I. Rodriguez, Mark A. Ross, Claudette St. Croix, Heather Knupp, Enrico M. Novelli, Angus W. Thomson, Patrick J. Pagano, and Jeffrey S. Isenberg

- 1187 **Characterization of Renal Toxicity in Mice Administered the Marine Biotxin Domoic Acid**  
Jason A. Funk, Michael G. Janech, Joshua C. Dillon, John J. Bissler, Brian J. Siroky, and P. Darwin Bell

- 1198 **Angiotensin-2-Induced Arterial Stiffness in CKD**  
Fan-Chi Chang, Wen-Chih Chiang, Ming-Hsuan Tsai, Yu-Hsiang Chou, Szu-Yu Pan, Yu-Ting Chang, Pei-Ying Yeh, Yi-Ting Chen, Chih-Kang Chiang, Yung-Ming Chen, Tzong-Shinn Chu, Kwan-Dun Wu, and Shuei-Liong Lin

- 1211 **Rapid and Efficient Differentiation of Human Pluripotent Stem Cells into Intermediate Mesoderm That Forms Tubules Expressing Kidney Proximal Tubular Markers**  
Albert Q. Lam, Benjamin S. Freedman, Ryuji Morizane, Paul H. Lerou, M. Todd Valerius, and Joseph V. Bonventre

- 1226 ★ **Renalase Prevents AKI Independent of Amine Oxidase Activity**  
Ling Wang, Heino Velazquez, Gilbert Moeckel, John Chang, Ahrom Ham, H. Thomas Lee, Robert Safirstein, and Gary V. Desir

**1237** ★ **Genetic Targeting or Pharmacologic Inhibition of NADPH Oxidase Nox4 Provides Renoprotection in Long-Term Diabetic Nephropathy**  
Jay C. Jha, Stephen P. Gray, David Barit, Jun Okabe, Assam El-Osta, Tamehachi Namikoshi, Vicki Thallas-Bonke, Kirstin Winkler, Cedric Szyndralewicz, Freddy Heitz, Rhian M. Touyz, Mark E. Cooper, Harald H.H.W. Schmidt, and Karin A. Jandeleit-Dahm

**1256** **Time Course of Pathogenic and Adaptation Mechanisms in Cystinotic Mouse Kidneys**  
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• See related editorial by Chevalier (pp. 1131–1132).

**1270** **Activated Omentum Slows Progression of CKD**  
Ignacio Garcia-Gomez, Nishit Pancholi, Jilpa Patel, Krishnamurthy P. Gudehithlu, Periannan Sethupathi, Peter Hart, George Dunea, Jose A.L. Arruda, and Ashok K. Singh  
• See related editorial by Westenfelder (pp. 1133–1135).

**1282** **O-Linked Glycosylation Determines the Nephritogenic Potential of IgA Rheumatoid Factor**  
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**1291** **Stat3 Programs Th17-Specific Regulatory T Cells to Control GN**  
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### CLINICAL EPIDEMIOLOGY

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**1313** ★ **Soluble TNF Receptors and Kidney Dysfunction in the Elderly**  
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### CLINICAL RESEARCH

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**1342** ★ **Initial Steroid Sensitivity in Children with Steroid-Resistant Nephrotic Syndrome Predicts Post-Transplant Recurrence**  
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**1357** **Phospholipase A2 Receptor Autoantibodies and Clinical Outcome in Patients with Primary Membranous Nephropathy**  
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• See related editorial by Hofstra and Wetzels (pp. 1137–1139).