

**This Month's Highlights**  
ASN News**UP FRONT MATTERS****Editorials**

- 2215 **Chimerism of the Renal Glomerulus Revisited**  
Yashpal S. Kanwar, Farhad R. Danesh, and Sumant S. Chugh  
• See related article by Abrahamson et al. (pp. 2285–2293).

- 2217 **Angiotensin-2 and Glomerular Proteinuria**  
Mark P. de Caestecker  
• See related article by Davis et al. (pp. 2320–2329).

- 2218 **Hemoglobin Variability in Dialysis Patients**  
K. Scott Brimble and Catherine M. Clase  
• See related article by West et al. (pp. 2371–2376).

**Clinical Commentary**

- 2221 **Prophylactic Anticoagulation in Nephrotic Syndrome: A Clinical Conundrum**  
Richard J. Glassock

**Brief Reviews**

- 2226 **Mechanical Forces in Diabetic Kidney Disease: A Trigger for Impaired Glucose Metabolism**  
Luigi Gnudi, Stephen M. Thomas, and Giancarlo Viberti

- 2233 **Diagnostic Potential of Urine Proteome: A Broken Mirror of Renal Diseases**  
Michael S. Goligorsky, Francesco Addabbo, and Edmond O'Riordan

**Special Articles**

- 2240 **Frontiers in Nephrology: Tolerance**  
Peter S. Heeger

- 2242 **Frontiers in Nephrology: Immune Tolerance to Allografts in Humans**  
Raffaele Girlanda and Allan D. Kirk

- 2252 **Frontiers in Nephrology: T Cell Memory as a Barrier to Transplant Tolerance**  
Anna Valujskikh and Xian Chang Li

- 2262 **Frontiers in Nephrology: The Varied Faces of Natural Killer Cells in Transplantation—Contributions to Both Allograft Immunity and Tolerance**  
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- 2268 **Frontiers in Nephrology: Heterologous Immunity, T Cell Cross-Reactivity, and Alloreactivity**  
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**Science in Renal Medicine**

- 2278 **A Brain Protein-Centered View of H<sup>+</sup> Buffering**  
Manjula Gowrishankar, Kamel S. Kamel, and Mitchell L. Halperin

**Pathophysiology of the Renal Biopsy**

- 2281 **The Glomerular Injury of Preeclampsia**  
Isaac E. Stillman and S. Ananth Karumanchi

**BASIC RESEARCH**

- 2285 ★ **Partial Rescue of Glomerular Laminin  $\alpha$ 5 Mutations by Wild-Type Endothelia Produce Hybrid Glomeruli**  
Dale R. Abrahamson, Patricia L. St. John, Kathryn Isom, Barry Robert, and Jeffrey H. Miner  
• See related editorial by Kanwar et al. (pp. 2215–2217).

**2294 Peritoneal Changes after Exposure to Sterile Solutions by Catheter**

Michael F. Flessner, Kimberly Credit, Karla Henderson, Heather M. Vanpelt, Rebecca Potter, Zhi He, Jeffrey Henegar, and Barry Robert

**2303 Differential Expression of Nephritin According to Glomerular Size in Early Diabetic Kidney Disease**

Jin-Ju Kim, Jin Ji Li, Dong-Sub Jung, Seung-Jae Kwak, Dong-Ryeol Ryu, Tae-Hyun Yoo, Seung Hyeok Han, Hoon Young Choi, Hyung Jong Kim, Dae Suk Han, and Shin-Wook Kang

**2311 ★ Angiotensin Inhibition Decreases Progression of Advanced Atherosclerosis and Stabilizes Established Atherosclerotic Plaques**

Eisuke Suganuma, Vladimir R. Babaev, Masaru Motojima, Yiqin Zuo, Nobuhiko Ayabe, Agnes B. Fogo, Iekuni Ichikawa, MacRae F. Linton, Sergio Fazio, and Valentina Kon

**2320 Podocyte-Specific Expression of Angiopoietin-2 Causes Proteinuria and Apoptosis of Glomerular Endothelia**

Belinda Davis, Alessandra Dei Cas, David A. Long, Kathryn E. White, Anthea Hayward, Ching-Hsin Ku, Adrian S. Woolf, Rudolf Bilous, Giancarlo Viberti, and Luigi Gnudi

• See related editorial by de Caestecker (pp. 2217–2218).

**2330 ★ Increased Membrane Expression of Proteinase 3 during Neutrophil Adhesion in the Presence of Anti-Proteinase 3 Antibodies**

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**2340 Molecular Basis for the Cell Type-Specific Induction of SnoN Expression by Hepatocyte Growth Factor**

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### CLINICAL EPIDEMIOLOGY

**2371 ★ Functional Data Analysis Applied to a Randomized Controlled Clinical Trial in Hemodialysis Patients Describes the Variability of Patient Responses in the Control of Renal Anemia**

Robert M. West, Katie Harris, Mark S. Gilthorpe, Cae Tolman, and Eric J. Will

• See related editorial by Brimble and Clase (pp. 2218–2220).

**2377 Which Targets in Clinical Practice Guidelines Are Associated with Improved Survival in a Large Dialysis Organization?**

Francesca Tentori, William C. Hunt, Mark Rohrscheib, Min Zhu, Christine A. Stidley, Karen Servilla, Dana Miskulin, Klemens B. Meyer, Edward J. Bedrick, H. Keith Johnson, and Philip G. Zager

### CLINICAL RESEARCH

**2385 ★ Fasting Glucose Levels in Predicting 1-Year All-Cause Mortality in Patients Who Do Not Have Diabetes and Are on Maintenance Hemodialysis**

Dan-Tzu Lin-Tan, Ja-Liang Lin, Li-Hua Wang, Li-Mei Wang, Lan-Mei Huang, Lily Liu, Jeng-Yi Huang, and Yen-Lin Huang

**2392 ★ Differential Impact of Complement Mutations on Clinical Characteristics in Atypical Hemolytic Uremic Syndrome**

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Veronique Fremeaux-Bacchi,  
Marie-Agnès Dragon-Durey, Marie-Alice Macher,  
Patrick Niaudet, Geneviève Guest,  
Bernard Boudailliez, François Bouissou,  
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for the French Society of Pediatric Nephrology

**2401 Fracture Risk after Parathyroidectomy among Chronic Hemodialysis Patients**

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**2408 Genome-Wide Linkage Scan of a Large Family with IgA Nephropathy Localizes a Novel Susceptibility Locus to Chromosome 2q36**

Andrew D. Paterson, Xiao-Qing Liu, Kairong Wang,  
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**2416 Low Pretransplantation Mannose-Binding Lectin Levels Predict Superior Patient and Graft Survival after Simultaneous Pancreas-Kidney Transplantation**

Stefan P. Berger, Anja Roos, Marko J.K. Mallat,  
Alexander F.M. Schaapherder, Ilias I. Doxiadis,  
Cees van Kooten, Friedo W. Dekker,  
Mohamed R. Daha, and Johan W. de Fijter