

This Month's Highlights

UP FRONT MATTERS

Editorials

- 1621 **Stem Cell–Based Therapy for Glomerular Diseases: An Evolving Concept**
Valerie S. LeBleu and Raghu Kalluri
• See related article by Katayama et al. (pp. 1692–1700).
- 1623 **Stacking the Deck for Drug Discovery in Diabetic Nephropathy: In Search of an Animal Model**
Matthew D. Breyer
• See related article by Yuzawa et al. (pp. 1701–1711).
- 1625 **Of Men and Mice: Who Is in Control of Renal Phosphate Reabsorption?**
Carsten A. Wagner, Jürg Biber, and Heini Murer
• See related article by Iwaki et al. (pp. 1753–1762).
- 1627 **The Practical Utility of an Economic Analysis of Calcineurin Withdrawal following Renal Transplantation**
Bruce Kaplan and Jesse D. Schold
• See related article by Earnshaw et al. (pp. 1807–1816).

JASN Debates

- 1629 **Resolved: Fistulas Are Preferred to Grafts as Initial Vascular Access for Dialysis**
Anatole Besarab, Michael Allon, and Michelle L. Robbin

Brief Reviews

- 1634 **Mechanisms of Renal Apoptosis in Health and Disease**
Ana Belen Sanz, Beatriz Santamaría, Marta Ruiz-Ortega, Jesus Egido, and Alberto Ortiz
- 1643 **Use of Cardiac Biomarkers in End-Stage Renal Disease**
Angela Yee-Moon Wang and Kar-Neng Lai

Pathophysiology of the Renal Biopsy

- 1653 **Hantavirus Nephropathy**
Dušan Ferluga and Alenka Vizjak

BRIEF COMMUNICATION

- 1659 ★ **Triptolide Reduces Cystogenesis in a Model of ADPKD**
Stephanie J. Leuenroth, Natasha Bencivenga, Peter Igarashi, Stefan Somlo, and Craig M. Crews

BASIC RESEARCH

- 1663 **NKT Cells Inhibit the Development of Experimental Crescentic Glomerulonephritis**
Seung Hee Yang, Su Jin Kim, Nakkyung Kim, Ji Eun Oh, Jung Gil Lee, Nam Hyun Chung, Suhnggwon Kim, and Yon Su Kim
- 1672 **IHG-1 Amplifies TGF- β 1 Signaling and Is Increased in Renal Fibrosis**
Madeline Murphy, Neil G. Docherty, Brenda Griffin, Jillian Howlin, Emmett McArdle, Ruth McMahon, Holger Schmid, Matthias Kretzler, Alejandra Droguett, Sergio Mezzano, Hugh R. Brady, Fiona Furlong, Catherine Godson, and Finian Martin
- 1681 ★ **Heme Oxygenase-1 Deficiency Promotes Epithelial-Mesenchymal Transition and Renal Fibrosis**
Jeong-Hae Kie, Matthias H. Kapturczak, Amie Traylor, Anupam Agarwal, and Nathalie Hill-Kapturczak
- 1692 **Irradiation Prolongs Survival of Alport Mice**
Kan Katayama, Mitsuo Kawano, Ichiro Naito, Hitoshi Ishikawa, Yoshikazu Sado, Nagisa Asakawa, Tomohiro Murata, Kazuki Oosugi, Michiyo Kiyohara, Eiji Ishikawa, Masaaki Ito, and Shinsuke Nomura
• See related editorial by LeBleu and Kalluri (pp. 1621–1623).

1701 Overexpression of Calmodulin in Pancreatic β Cells Induces Diabetic Nephropathy
Yukio Yuzawa, Ichiro Niki, Tomoki Kosugi, Shoichi Maruyama, Futoshi Yoshida, Motohiro Takeda, Yoshiaki Tagawa, Yukiko Kaneko, Toshihide Kimura, Noritoshi Kato, Jyunichiro Yamamoto, Waichi Sato, Takahiko Nakagawa, and Seiichi Matsuo
• See related editorial by Breyer (pp. 1623–1624).

1712 Fructose Induces the Inflammatory Molecule ICAM-1 in Endothelial Cells
Olena Glushakova, Tomoki Kosugi, Carlos Roncal, Wei Mu, Marcelo Heinig, Pietro Cirillo, Laura G. Sánchez-Lozada, Richard J. Johnson, and Takahiko Nakagawa

1721 Sodium Excretion in Response to Vasopressin and Selective Vasopressin Receptor Antagonists
Julie Perucca, Daniel G. Bichet, Pascale Bardoux, Nadine Bouby, and Lise Bankir

1732 Organic Anion Transporter 3 Contributes to the Regulation of Blood Pressure
Volker Vallon, Satish A. Eraly, William R. Wikoff, Timo Rieg, Gregory Kaler, David M. Truong, Sun-Young Ahn, Nitish R. Mahapatra, Sushil K. Mahata, Jon A. Gangoiti, Wei Wu, Bruce A. Barshop, Gary Siuzdak, and Sanjay K. Nigam

1741 Paricalcitol Inhibits Renal Inflammation by Promoting Vitamin D Receptor–Mediated Sequestration of NF- κ B Signaling
Xiaoyue Tan, Xiaoyan Wen, and Youhua Liu

1753 A Missense Mutation in the Sodium Phosphate Co-transporter *Slc34a1* Impairs Phosphate Homeostasis
Takayuki Iwaki, Mayra J. Sandoval-Cooper, Harriet S. Tenenhouse, and Francis J. Castellino
• See related editorial by Wagner et al. (pp. 1625–1626).

1763 ★ Maintenance of Tolerance by Regulation of Anti-myeloperoxidase B Cells
Donna O. Bunch, Jonathan S. Silver, Melanie C. Majure, Pamela Sullivan, David A. Alcorta, Hyunsook Chin, Susan L. Hogan, Yoshi I. Lindstrom, Stephen H. Clarke, Ronald J. Falk, and Patrick H. Nachman

1774 Low-Dose Growth Hormone is Cardioprotective in Uremia
Ralph Rabkin, Ibrahim Awwad, Yu Chen, Euan A. Ashley, Difei Sun, Sumita Sood, William Clusin, Paul Heidenreich, Grzegorz Piecha, and Marie-Luise Gross

CLINICAL EPIDEMIOLOGY

1785 ★ Extended Prognostic Value of Urinary Albumin Excretion for Cardiovascular Events
Auke H. Brantsma, Stephan J.L. Bakker, Dick de Zeeuw, Paul E. de Jong, and Ronald T. Gansevoort, for the PREVENT Study Group

1792 Cost-Effectiveness of Frequent In-Center Hemodialysis
Chris P. Lee, Stefanos A. Zenios, and Glenn M. Chertow

1798 ★ Changes in Body Weight Predict CKD in Healthy Men
Seungho Ryu, Yoosoo Chang, Hee-Yeon Woo, Soo-Geun Kim, Dong-Il Kim, Won Sool Kim, Byung-Seong Suh, Nam-Kyong Choi, and Jong-Tae Lee

CLINICAL RESEARCH

1807 ★ Lifetime Cost-Effectiveness of Calcineurin Inhibitor Withdrawal After *De Novo* Renal Transplantation
Stephanie R. Earnshaw, Christopher N. Graham, William D. Irish, Reiko Sato, and Mark A. Schnitzler
• See related editorial by Kaplan and Schold (pp. 1627–1628).

1817 Intravenous Iron Exacerbates Oxidative DNA Damage in Peripheral Blood Lymphocytes in Chronic Hemodialysis Patients
Ko-Lin Kuo, Szu-Chun Hung, Yau-Huei Wei, and Der-Cherng Tarng

1827 Association of Bone Activity, Calcium Load, Aortic Stiffness, and Calcifications in ESRD
Gérard M. London, Sylvain J. Marchais, Alain P. Guérin, Pierre Boutouyrie, Fabien Métivier, and Marie-Christine de Vernejoul