This Month’s Highlights

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649 A National Course for Renal Fellows: The Origins of Renal Physiology
Mark Zeidel, Joseph Bonventre, John Forrest, and Vikas Sukhatme

650 Integrins and Matrix in the Glomerulus: Old Mysteries and New Insights
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• See related article by Borza et al. (pp. 677–684).

651 Are Podocytes Passive or Provocative in Proteinuric Glomerular Pathology?
Peter G. Tipping
• See related article by Banas et al. (pp. 704–713).

654 What Does a Serum Sodium Cost?
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• See related article by Shea et al. (pp. 764–770).

Clinical Commentary

656 Atherosclerotic Renal Artery Stenosis: Overtreated but Underrated?
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660 Lessons Learned About Adult Kidney Stem Cells From the Malpighian Tubules of Drosophila
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667 GUDMAP: The Genitourinary Developmental Molecular Anatomy Project
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672 PTH-Related Peptide (PTHrP) in Hypercalcemia
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BASIC RESEARCH

677 ★ Human Podocytes Adhere to the KRGDS Motif of the α3α4α5 Collagen IV Network
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• See related editorial by Kreidberg (pp. 650–651).

685 Bmp in Podocytes Is Essential for Normal Glomerular Capillary Formation
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695 ★ The Cytokine TWEAK Modulates Renal Tubulointerstitial Inflammation
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Red star ★ indicates articles that are features in This Month’s Highlights.
TLR4 Links Podocytes with the Innate Immune System to Mediate Glomerular Injury
Miriam C. Banas, Bernhard Banas, Kelly L. Hudkins, Tomasz A. Wietecha, Masayuki Iyoda, Elisabeth Bock, Peter Hauser, Jeffrey W. Pippin, Stuart J. Shankland, Kelly D. Smith, Benjamin Stoelcker, Gang Liu, Hermann-Josef Gröne, Bernhard K. Krämer, and Charles E. Alpers
See related editorial by Tipping (pp. 651–653).

Association of a Functional Cytochrome P450 4F2 Haplotype with Urinary 20-HETE and Hypertension
Hong Liu, Yanyan Zhao, Dong Nie, Jingpu Shi, Lingyu Fu, Yan Li, Dahai Yu, and Jingyu Lu

Lack of A1 Adenosine Receptors Augments Diabetic Hyperfiltration and Glomerular Injury
Robert Faulhaber-Walter, Limeng Chen, Mona Oppermann, Soo Mi Kim, Yuning Huang, Noriyuki Hiramatsu, Diane Mizel, Hiroshi Kajiyama, Patricia Zeffas, Josephine P. Briggs, Jeffrey B. Kopp, and Jurgen Schnermann

Sodium-Dependent Regulation of Renal Amiloride-Sensitive Currents by Apical P2 Receptors
Scott S.P. Wildman, Joanne Marks, Clare M. Turner, Liang Yew-Booth, Claire M. Peppiatt-Wildman, Brian F. King, David G. Shirley, WenHui Wang, and Robert J. Unwin

The Putative (Pro)renin Receptor Blocker HRP Fails to Prevent (Pro)renin Signaling
Sandra Feldt, Ulrike Maschke, Ralf Dechend, Friedrich C. Luft, and Dominik N. Muller

Caspase-3 Gene Deletion Prolongs Survival in Polycystic Kidney Disease
Yunxia Tao, Iram Zafar, Jun Kim, Robert W. Schrier, and Charles L. Edelstein

ACE Gene Polymorphism and Losartan Treatment in Type 2 Diabetic Patients With Nephropathy
Hans-Henrik Parving, Dick de Zeeuw, Mark E. Cooper, Giuseppe Remuzzi, Nancy Liu, Jared Lunceford, Shahnaz Shahinfar, Peggy H. Wong, Paulette A. Lyle, Peter Rossing, and Barry M. Brenner

The Use of Magnetic Resonance to Evaluate Tissue Oxygenation in Renal Artery Stenosis

Association of Urinary Inflammatory Markers and Renal Decline in Microalbuminuric Type 1 Diabetics
Pawel P. Wolkow, Monika A. Niewczas, Bruce Perkins, Linda H. Ficociello, Boguslaw Lipinski, James H. Warram, and Andrzej S. Krolewski

Aortic Stiffness of Kidney Transplant Recipients Correlates with Donor Age
Michel Delahousse, Michel Chaignon, Laurent Mesnard, Pierre Boutouyrie, Michel E. Safar, Thierry Lebret, Myriam Pastural-Thaunat, Leila Tricot, Anne Kolkko-Labadens, Alexandre Karras, and Jean-Philippe Haymann

CKD Increases the Risk of Age-Related Macular Degeneration
Gerald Liew, Paul Mitchell, Tien Yin Wong, Sudha K. Iyengar, and Jie Jin Wang

Antibody-Mediated Rejection of the Kidney after Simultaneous Pancreas-Kidney Transplantation
Julio Pascual, Milagros D. Samaniego, José R. Torrealba, Jon S. Odorico, Arjang Djamali, Yolanda T. Becker, Barbara Voss, Glen E. Leversion, Stuart J. Knechtle, Hans W. Sollinger, and John D. Pirsch

ROBO2 Gene Variants Are Associated with Familial Vesicoureteral Reflux
Aida M. Bertoli-Avelia, Maria Luisa Conte, Francesca Punzo, Bianca M. de Graaf, Giuliana Lama, Angela La Manna, Cesare Polito, Carolina Grassia, Bruno Nobili, Pier Francesco Rambaldi, Ben A. Oostra, and Silverio Perrotta