This Month’s Highlights

UP FRONT MATTERS

Editorials

2797 Interferon-β: A Novel Way to Treat Nephrotic Syndrome?
Andrew J. Rees and Renate Kain
• See related article by Satchell et al. (pp. 2875–2884).

Aquaporin 1, Urea Transporters, and Renal Vascular Bundles
Thomas L. Pallone
• See related article by Zhai et al. (pp. 2937–2944).

The Wages of Thin
Clifford E. Kashtan
• See related article by Voskarides et al. (pp. 3004–3016).

Occasional Observations

2803 Chronic Kidney Disease—The Promise and the Perils
William G. Couser

Clinical Commentary

2806 Quantitative Appraisal of Treatment Options for IgA Nephropathy
Francis W. Ballardie

Brief Review

2810 Antimicrobial Peptides, Innate Immunity, and the Normally Sterile Urinary Tract
Michael Zasloff

Special Articles

2817 Role of Environmental Toxins in Endemic (Balkan) Nephropathy
Arthur P. Grollman and Bojan Jelaković

2824 2006 Homer W. Smith Lecture: Taming T Cells
Terry B. Strom

Red star ★ indicates articles that are features in This Month’s Highlights.

2833 Frontiers in Nephrology: Viewing the Kidney through the Heart—Endothelial Dysfunction in Chronic Kidney Disease
Michael S. Goligorsky

2836 Frontiers in Nephrology: Early Atherosclerosis—A View Beyond the Lumen
Mario Gossel, Lilach O. Lerman, and Amir Lerman

2843 Frontiers in Nephrology: The Evolving Therapeutic Applications of Endothelial Progenitor Cells
Jörm Tongers and Douglas W. Losordo

2853 Frontiers in Nephrology: Genomic Approaches to Understanding the Molecular Basis of Atherosclerosis
Euan A. Ashley, Joshua M. Spin, Raymond Tabibiazar, and Thomas Quertermous

2863 Frontiers in Nephrology: Targeting Inflammation Using Novel Nitric Oxide Donors
Gordon Letts and Joseph Loscalzo

Pathophysiology of the Renal Biopsy

2870 Acute Renal Failure and Myalgia in a Transplant Patient
Behzad Najafian, Donald B. Franklin, and Agnes B. Fogo

BASIC RESEARCH

2875 ★ Interferon-β Reduces Proteinuria in Experimental Glomerulonephritis
• See related editorial by Rees and Kain (pp. 2797–2798)
2885 ★ Glomerular Endothelial Glycocalyx Constitutes a Barrier to Protein Permeability
Anurag Singh, Simon C. Satchell, Chris R. Neal, Edward A. McKenzie, John E. Tooke, and Peter W. Mathieson

2894 Renal L-Type Fatty Acid–Binding Protein in Acute Ischemic Injury

2903 Mitogenic Signaling via Platelet-Derived Growth Factor β in Metanephric Mesenchymal Cells
Brent Wagner, Jill M. Ricono, Yves Gorin, Karen Block, Mazen Arar, Dan Riley, Goutam Ghosh Choudhury, and Hanna E. Abboud

2912 Viscosity of Contrast Media Perturbs Renal Hemodynamics
Erdmann Seeliger, Bert Flemming, Thomas Wrons, Mechthild Ladwig, Karen Arakelyan, Michael Godes, Martin Möckel, and Pontus B. Persson

2921 ★ Insulin-Like Growth Factor-1 Sustains Stem Cell–Mediated Renal Repair
Barbara Imberti, Marina Morini, Susanna Tomasoni, Cinzia Rota, Daniela Corna, Lorena Longaretti, Daniela Rottoli, Federica Valsecchi, Ariela Benigni, Jun Wang, Mauro Abbate, Carla Zaja, and Giuseppe Remuzzi

2929 Importance of Donor- and Recipient-Derived Selectins in Cardiac Allograft Rejection
Atsushi Izawa, Takuya Ueno, Mollie Jurewicz, Toshiro Ito, Katsunori Tanaka, Masafumi Takahashi, Uchi Ikeda, Olga Sobolev, Paolo Fiorina, Rex Neal Smith, Richard O. Hynes, and Reza Abd

2937 Aquaporin-1 Is not Expressed in Descending Thin Limbs of Short-Loop Nephrons
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★ See related editorial by Pallone (pp. 2798–2800)

2945 Diabetic Nephropathy Is Associated with Oxidative Stress and Decreased Renal Nitric Oxide Production
Sharma Prabhakar, Joel Stames, Shuping Shi, Betty Lonis, and Ruc Tran

2953 Prevalence of Chronic Kidney Disease and Survival among Aboriginal People
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2960 Significance of Frailty among Dialysis Patients
Kirsten L. Johansen, Glenn M. Chertow, Chengshi Jin, and Nancy G. Kutner

2968 ★ Racial Differences in End-Stage Renal Disease Rates in HIV Infection versus Diabetes
Andy I. Choi, Rudolph A. Rodriguez, Peter Bacchetti, Daniel Bertenthal, Paul A. Volberding, and Ann M. O’Hare

2975 Exercise in Maintenance Hemodialysis Patients Induces Transcriptional Changes in Genes Favoring Anabolic Muscle
Joel D. Koppble, Huiyuan Wang, Richard Casaburi, Mario Fournier, Michael I. Lewis, Wayne Taylor, and Thomas W. Storer

2987 NPHS2 Variation in Sporadic Focal Segmental Glomerulosclerosis

2996 ★ Mineral Metabolism and Vascular Damage in Children on Dialysis
Rukshana C. Shroff, Ann E. Donald, Melanie P. Hiorns, Alan Watson, Sally Feather, David Milford, Elizabeth A. Ellins, Clare Storey, Deborah Ridout, John Deanfield, and Lesley Rees

3004 ★ COL4A3/COL4A4 Mutations Producing Focal Segmental Glomerulosclerosis and Renal Failure in Thin Basement Membrane Nephropathy
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★ See related editorial by Kashtan (pp. 2800–2802)