

This Month's Highlights

UP FRONT MATTERS

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- 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).

- 2798 **Aquaporin 1, Urea Transporters, and Renal Vascular Bundles**

Thomas L. Pallone

- See related article by Zhai et al. (pp. 2937–2944).

- 2800 **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**

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Brief Review

- 2810 **Antimicrobial Peptides, Innate Immunity, and the Normally Sterile Urinary Tract**

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- 2817 **Role of Environmental Toxins in Endemic (Balkan) Nephropathy**

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- 2824 **2006 Homer W. Smith Lecture: Taming T Cells**

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- 2833 **Frontiers in Nephrology: Viewing the Kidney through the Heart—Endothelial Dysfunction in Chronic Kidney Disease**

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- 2836 **Frontiers in Nephrology: Early Atherosclerosis—A View Beyond the Lumen**

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- 2843 **Frontiers in Nephrology: The Evolving Therapeutic Applications of Endothelial Progenitor Cells**

Jörn 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

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- 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**

Simon C. Satchell, Olena Buchatska, Sarah B. Khan, Gurjeet Bhargal, Candida H. Tasman, Moin A. Saleem, Darren P. Baker, Roy R. Lobb, Jennifer Smith, H. Terence Cook, Peter W. Mathieson, and Charles D. Pusey

- 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

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2903 Mitogenic Signaling via Platelet-Derived Growth Factor β in Metanephric Mesenchymal Cells

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2912 Viscosity of Contrast Media Perturbs Renal Hemodynamics

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2921 ★ Insulin-Like Growth Factor-1 Sustains Stem Cell–Mediated Renal Repair

Barbara Imberti, Marina Morigi, Susanna Tomasoni, Cinzia Rota, Daniela Corna, Lorena Longaretti, Daniela Rottoli, Federica Valsecchi, Ariela Benigni, Jun Wang, Mauro Abbate, Carla Zoja, and Giuseppe Remuzzi

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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

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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

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2975 Exercise in Maintenance Hemodialysis Patients Induces Transcriptional Changes in Genes Favoring Anabolic Muscle

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2987 *NPHS2* Variation in Sporadic Focal Segmental Glomerulosclerosis

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2996 ★ Mineral Metabolism and Vascular Damage in Children on Dialysis

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3004 ★ *COL4A3*/*COL4A4* Mutations Producing Focal Segmental Glomerulosclerosis and Renal Failure in Thin Basement Membrane Nephropathy

Konstantinos Voskarides, Loukas Damianou, Vassos Neocleous, Ioanna Zouvani, Stalo Christodoulidou, Valsamakis Hadjiconstantinou, Kyriacos Ioannou, Yiannis Athanasiou, Charalampos Patsias, Efsthios Alexopoulos, Alkis Pierides, Kyriacos Kyriacou, and Constantinos Deltas
• See related editorial by Kashtan (pp. 2800–2802)