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→ See related article by Pawar et al. on pages 3365–3373.

3276 **Prevention of Microalbuminuria in Type 2 Diabetes: Millimeters or Milligrams?**

Richard J. Glassock

→ See related article by Ruggenenti et al. on pages 3472–3481.

3279 **Sleep Apnea with Intermittent Hemodialysis: Time for a Wake-Up Call!**

Christopher T. Chan

→ See related article by Unruh et al. on pages 3503–3509.

## Review

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## Fast Track

3293 ★ **Prorenin and Angiotensin-Dependent Renal Vasoconstriction in Type 1 and Type 2 Diabetes**

Ana R. Stankovic, Naomi D.L. Fisher, and Norman K. Hollenberg

## Basic Science Articles

### Cell Biology

3300 ★ **Isolation and Characterization of Nontubular Sca-1<sup>+</sup>Lin<sup>-</sup> Multipotent Stem/Progenitor Cells from Adult Mouse Kidney**

Benjamin Dekel, Lior Zangi, Elias Shezen, Shlomit Reich-Zeliger, Smadar Eventov-Friedman, Helena Katchman, Jasmin Jacob-Hirsch, Ninette Amariglio, Gideon Rechavi, Raanan Margalit, and Yair Reisner

3315 **Smoking Induces Glomerulosclerosis in Aging Estrogen-Deficient Mice through Cross-Talk between TGF- $\beta$ 1 and IGF-I Signaling Pathways**

Sharon J. Elliot, Michael Karl, Mariana Berho, Xiaomei Xia, Simone Pereria-Simon, Diego Espinosa-Heidmann, and Gary E. Striker

3325 **Role of the Akt/FoxO3a Pathway in TGF- $\beta$ 1-Mediated Mesangial Cell Dysfunction: A Novel Mechanism Related to Diabetic Kidney Disease**

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- 3336 **Apoptosis Antagonizing Transcription Factor Protects Renal Tubule Cells against Oxidative Damage and Apoptosis Induced by Ischemia-Reperfusion**  
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- 3347  **$\beta_1$  Receptors Protect the Renal Afferent Arteriole of Angiotensin-Infused Rabbits from Norepinephrine-Induced Oxidative Stress**  
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- 3365 ★ **Ligands to Nucleic Acid-Specific Toll-Like Receptors and the Onset of Lupus Nephritis**  
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→ See related editorial by Smith on pages 3273–3275.
- Pathophysiology of Renal Disease and Progression**
- 3374 **Discoidin Domain Receptor 1 Null Mice Are Protected against Hypertension-Induced Renal Disease**  
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- 3382 **Paricalcitol Attenuates Renal Interstitial Fibrosis in Obstructive Nephropathy**  
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- 3394 **Endothelin-A Receptor Blockade Improves Renal Microvascular Architecture and Function in Experimental Hypercholesterolemia**  
Alejandro R. Chade, James D. Krier, Stephen C. Textor, Amir Lerman, and Lilach O. Lerman
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- 3415 **Calpain Activation and Secretion Promote Glomerular Injury in Experimental Glomerulonephritis: Evidence from Calpastatin-Transgenic Mice**  
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- 3424 **Early Embryonic Renal Tubules of Wild-Type and Polycystic Kidney Disease Kidneys Respond to cAMP Stimulation with Cystic Fibrosis Transmembrane Conductance Regulator/ $\text{Na}^+$ , $\text{K}^+$ , $2\text{Cl}^-$  Co-Transporter-Dependent Cystic Dilation**  
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- 3438 **Enhanced Aldosterone Signaling in the Early Nephropathy of Rats with Metabolic Syndrome: Possible Contribution of Fat-Derived Factors**  
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- Basic Dialysis**
- 3447 **Novel Role for Mast Cells in Omental Tissue Remodeling and Cell Recruitment in Experimental Peritoneal Dialysis**  
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## Disease of the Month

- 3458 **Amyloidosis-Associated Kidney Disease**  
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### Clinical Nephrology

- 3472 ★ **Impact of Blood Pressure Control and Angiotensin-Converting Enzyme Inhibitor Therapy on New-Onset Microalbuminuria in Type 2 Diabetes: A *Post Hoc* Analysis of the BENEDICT Trial**

Piero Ruggenenti, Annalisa Perna, Maria Ganeva, Bogdan Ene-Iordache, and Giuseppe Remuzzi; for the BENEDICT Study Group

→ See related editorial by Glasscock on pages 3276–3278.

- 3482 **Effect of Various Diuretic Treatments on Rosiglitazone-Induced Fluid Retention**

Janaka Karalliedde, Robin Buckingham, Margaret Starkie, Daniel Lorand, Murray Stewart, and Giancarlo Viberti; for the Rosiglitazone Fluid Retention Study Group

### Epidemiology and Outcomes

- 3491 **African Ancestry, Socioeconomic Status, and Kidney Function in Elderly African Americans: A Genetic Admixture Analysis**

Carmen A. Peralta, Elad Ziv, Ronit Katz, Alex Reiner, Esteban González Burchard, Linda Fried, Pui-Yan Kwok, Bruce Psaty, and Michael Shlipak

- 3497 **Medical Costs of Untreated Anemia in Elderly Patients with Predialysis Chronic Kidney Disease**

Patrick Lefebvre, Mei Sheng Duh, Sharon Buteau, Brahim Bookhart, and Samir H. Mody

### Clinical Dialysis

- 3503 **Sleep Apnea in Patients on Conventional Thrice-Weekly Hemodialysis: Comparison with Matched Controls from the Sleep Heart Health Study**

Mark L. Unruh, Mark H. Sanders, Susan Redline, Beth M. Piraino, Jason G. Umans, Terese C. Hammond, Imran Sharief, Naresh M. Punjabi, and Anne B. Newman

→ See related editorial by Chan on pages 3279–3280.

- 3510 ★ **International Differences in Dialysis Mortality Reflect Background General Population Atherosclerotic Cardiovascular Mortality**

Maki Yoshino, Martin K. Kuhlmann, Peter Kotanko, Roger N. Greenwood, Ronald L. Pisoni, Friedrich K. Port, Kitty J. Jager, Peter Homel, Hans Augustijn, Frank T. de Charro, Frederic Collart, Ekrem Ereke, Patrik Finne, Guillermo Garcia-Garcia, Carola Grönhagen-Riska, George A. Ioannidis, Frank Ivis, Torbjorn Leivestad, Hans Løkkegaard, Frantisek Lopot, Dong-Chan Jin, Reinhard Kramar, Toshiyuki Nakao, Mooppil Nandakumar, Sylvia Ramirez, Frank M. van der Sande, Staffan Schön, Keith Simpson, Rowan G. Walker, Wojciech Zaluska, and Nathan W. Levin

### Clinical Immunology and Pathology

- 3520 ★ **O-Glycosylation of Serum IgA1 Antibodies against Mucosal and Systemic Antigens in IgA Nephropathy**

Alice C. Smith, Karen Molyneux, John Feehally, and Jonathan Barratt

- 3529 ★ **Differential Glycosylation of Polymeric and Monomeric IgA: A Possible Role in Glomerular Inflammation in IgA Nephropathy**

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## Erratum

- 3540 **Erratum**