This Month’s Highlights

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543 ESAs in Dialysis Patients: Are You a Hedgehog or a Fox?
Ajay K. Singh

546 Round 2 at JASN
C. Craig Tisher

548 Revisiting Basement Membrane Pathology in Renal Cystic Disease
Yashpal S. Kanwar
* See related article by Goldberg et al. (pp. 579–586).

549 siRNA Therapy for Glomerulonephritis
Jordan A. Kreidberg
* See related article by Shimizu et al. (pp. 622–633).

551 Idiopathic Membranous Nephropathy: Getting Better by Itself
Richard J. Glassock
* See related articles by Polanco et al. (pp. 697–704) and Ronco and Debiec (pp. 564–569).

552 Treatment of Chronic Hyponatremia: Now We Know How, but Do We Know When or If?
Arthur Greenberg and Ruediger W. Lehrich
* See related article by Beri et al. (pp. 705–712).

Special Articles

556 Pathologic Classification of Diabetic Nephropathy
Thijs W. Cohen Tervaert, Antien L. Mooyaart, Kerstin Amann, Arthur H. Ronco, Cinhia B. Drachenberg, Franco Ferrario, Agnes B. Fogo, Mark Haas, Emile de Heer, Kensuke Joh, Laure H. Noël, Jai Radhakrishnan, Surya V. Seshan, Ingeborg M. Bajema, and Jan A. Bruijn, on behalf of the Renal Pathology Society

564 Antigen Identification in Membranous Nephropathy Moves toward Targeted Monitoring and New Therapy
Pierre Ronco and Hanna Debiec
* See related editorial by Glassock (pp. 551–552).

570 Science in Renal Medicine

573 Systemic Arterial Vasodilation, Vasopressin, and Vasopressinase in Pregnancy
Robert W. Schrier

BRIEF COMMUNICATION

573 Targeted Inactivation of EGF Receptor Inhibits Renal Collecting Duct Development and Function
Zhao Zhang, Elena Pascuet, Pierre-Alain Hueber, LeeLee Chu, Daniel G. Bichet, Tang-Cheng Lee, David W. Threadgill, and Paul Goodyer

579 ★ Maintenance of Glomerular Filtration Barrier Integrity Requires Laminin α5
Seth Goldberg, Tracy L. Adair-Kirk, Robert M. Senior, and Jeffrey H. Miner
* See related editorial by Kanwar (pp. 548–549).

587 ★ NFκB Promotes Inflammation, Coagulation, and Fibrosis in the Aging Glomerulus
Jocelyn E. Wiggins, Sanjeevkumar R. Patel, Kerby A. Shedden, Meera Goyal, Bryan L. Wharram, Sebastian Martini, Matthias Kretzler, and Roger C. Wiggins

598 HSP72 Inhibits Smad3 Activation and Nuclear Translocation in Renal Epithelial-to-Mesenchymal Transition
Yi Zhou, Haiping Mao, Shu Li, Shirong Cao, Zhijian Li, Shougang Zhuang, Jinjin Fan, Xiuqing Dong, Steven C. Borkan, Yihan Wang, and Xueqing Yu

Red star ★ indicates articles that are features in This Month’s Highlights.
BASP1 Promotes Apoptosis in Diabetic Nephropathy
Maria Dolores Sanchez-Niño, Ana Belen Sanz, Corina Lorz, Andrea Gnirke, Maria Pia Rastaldi, Viji Nair, Jesus Egido, Marta Ruiz-Ortega, Matthias Kretzler, and Alberto Ortiz

siRNA-Based Therapy Ameliorates Glomerulonephritis
Hideki Shimizu, Yuichi Hori, Shinya Kaname, Koei Yamada, Nobuhiro Nishiyama, Satoru Matsumoto, Kanjiro Miyata, Makoto Oba, Akira Yamada, Kazunori Kataoka, and Toshiro Fujita
* See related editorial by Kreidberg (pp. 549–551).

Intercalated Cell BK-α/β4 Channels Modulate Sodium and Potassium Handling During Potassium Adaptation
J. David Holtzclaw, P. Richard Grimm, and Steven C. Sansom

Integrative Urinary Peptidomics in Renal Transplantation Identifies Biomarkers for Acute Rejection
Xuefeng B. Ling, Tara K. Sigdel, Kenneth Lau, Lihua Ying, Irwin Lau, James Schilling, and Minnie M. Sarwal

B Cells Limit Repair after Ischemic Acute Kidney Injury
Hye Ryoun Jang, Maria Teresa Gandolfo, Gang Jee Ko, Shailesh R. Satpute, Lorraine Racusen, and Hamid Rabb

Dragon Enhances BMP Signaling and Increases Transepithelial Resistance in Kidney Epithelial Cells

Ultrastructural Analysis of Vascular Calcifications in Uremia
Georg Schlieper, Anke Aretz, Steven C. Verberckmoes, Thilo Krüger, Geert J. Behets, Reza Ghadimi, Thomas E. Weirich, Dorothea Rohrmann, Stephan Langer, Jan H. Tordoïr, Kerstin Amann, Ralf Westenfeld, Vincent M. Brandenburg, Patrick C. D’Haese, Joachim Mayer, Markus Ketteler, Marc D. McKee, and Jürgen Floege

Spontaneous Remission of Nephrotic Syndrome in Idiopathic Membranous Nephropathy
Natalia Polanco, Elena Gutiérrez, Adelardo Covarsi, Francisco Ariza, Agustín Carreño, Ana Vigil, José Baltar, Gema Fernández-Fresnedo, Carmen Martín, Salvador Pons, Dolores Lorenzo, Carmen Bernis, Pilar Arrizabalaga, Gema Fernández-Juírez, Vicente Barrio, Milagros Sierra, Ines Castellanos, Mario Espinosa, Francisco Rivera, Aniana Ollet, Francisco Fernández-Vega, and Manuel Praga for the Grupo de Estudio de las Enfermedades Glomerulares de la Sociedad Española de Nefrología
* See related editorial by Glassock (pp. 551–552).

Oral Tolvaptan Is Safe and Effective in Chronic Hyponatremia
Tomas Berl, Friederike Quittnat-Pelletier, Joseph G. Verbalis, Robert W. Schrier, Daniel G. Bichet, John Ouyang, and Frank S. Czerwiec, for the SALTWATER Investigators
* See related editorial by Greenberg and Lehrich (pp. 552–555).

Immune Phenotype Predicts Risk for Posttransplantation Squamous Cell Carcinoma
Robert P. Carroll, David San Segundo, Kevin Hollowood, Teresa Marafioti, Taane G. Clark, Paul N. Harden, and Kathryn J. Wood