This Month’s Highlights

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1439 Fenestrated Glomerular Capillaries Are Unique
Wilhelm Kriz
* See related article by Ichimura et al. (pp. 1463–1471).

1440 Hemoglobin in the Kidney: Breaking with Traditional Dogma
Volker H. Haase
* See related article by Nishi et al. (pp. 1500–1508).

1442 Active Vitamin D and Survival
Myles Wolf
* See related article by Shoben et al. (pp. 1613–1619).

Brief Reviews
1444 Tracking the Toll of Kidney Disease
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1451 Molecular Determinants of Magnesium Homeostasis: Insights from Human Disease
R. Todd Alexander, Joost G. Hoenderop, and René J. Bindels

Science in Renal Medicine
1459 The Aggravating Mechanisms of Aldosterone on Kidney Fibrosis
Giuseppe Remuzzi, Dario Cattaneo, and Norberto Perico

BASIC RESEARCH

1463 ★ Glomerular Endothelial Cells Form Diaphragms during Development and Pathologic Conditions
Koichiro Ichimura, Radu V. Stan, Hidetake Kurihara, and Tatsuo Sakai
* See related editorial by Kriz (pp. 1439–1440).

1472 High Perfusion Pressure Accelerates Renal Injury in Salt-Sensitive Hypertension
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1483 Impaired Immune Responses and Antigen-Specific Memory CD4+ T Cells in Hemodialysis Patients
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1491 Maternal Environment Interacts with Modifier Genes to Influence Progression of Nephrotic Syndrome
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1500 Hemoglobin Is Expressed by Mesangial Cells and Reduces Oxidant Stress
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* See related editorial by Haase (pp. 1440–1441).

1509 ★ Vitamin D Receptor Activators Can Protect against Vascular Calcification
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1520 Differential Effects of Rapamycin in Anti-GBM Glomerulonephritis
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1530 Mechanism of Urinary Calcium Regulation by Urinary Magnesium and pH
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1538 ★ Apoptosis of the Thick Ascending Limb Results in Acute Kidney Injury
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1547 Characterization of the Sodium/Hydrogen Exchanger NHA2
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1564 ★ Increased Risk of CKD among Type 2 Diabetics with Nonalcoholic Fatty Liver Disease
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1584 Early Epithelial Phenotypic Changes Predict Graft Fibrosis
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1613 ★ Association of Oral Calcitriol with Improved Survival in Nondialyzed CKD
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- See related editorial by Wolf (pp. 1442–1443).