This Month’s Highlights

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• 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
Anushree C. Shirali and Daniel R. Goldstein

1451 Molecular Determinants of Magnesium Homeostasis: Insights from Human Disease
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1459 The Aggravating Mechanisms of Aldosterone on Kidney Fibrosis
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BASIC RESEARCH

1463 Glomerular Endothelial Cells Form Diaphragms during Development and Pathologic Conditions
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• 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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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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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).