REGULAR ARTICLES

Cell and Structural Biology

Megalin Is an Endocytic Receptor for Insulin
Robert A. Orlando, Katherine Rader, Francois Authier, Hajime Yamazaki, Barry I. Posner, John J. M. Bergeron,
Marilyn Gist Farquhar
1759

Characterization of a Kidney Proximal Tubule Cell Line, LLC-PK1, Expressing Endocytic Active Megalin
Rikke Nielsen, Henrik Birn, Søren K. Moestrup, Morten Nielsen, Pierre Verroust, Erik Ilso Christensen
1767

Immunolocalization of Natriuretic Peptide Receptor B in the Rat Kidney
Marie-Chantal Bonhomme, Kevin L. Grove, Sylvie Caron, Caroline T. Crilley, Gaetan Thibault, Christian F. Deschepper,
Raul Garcia
1777

The Actin Cytoskeleton and Integrin Expression in the Recovery of Cell Adhesion after Oxidant Stress to a
Proximal Tubule Cell Line (JTC-12)
Sujata Nigam, Charles E. Weston, Chong H. Liu, Eric E. Simon
1787

Hemodynamics, Hypertension, and Vascular Regulation

Effects of Smoking on Renal Hemodynamics in Healthy Volunteers and in Patients with Glomerular Disease
Eberhard Ritz, Urs Benck, Eduard Franek, Christine Keller, Melchior Seyfarth, John Clorius
1798

Immunology and Pathology

Improved Survival and Amelioration of Nephrotoxic Nephritis in Intercellular Adhesion Molecule-1 Knockout
Mice
Ulf Janssen, Tammo Ostendorf, Søren Gaertner, Frank Eitmer, Hans-Jürgen Hedrich, Karel J. M. Asmann, Jürgen Föege
1805

Activated Mesangial Cells Produce Vascular Permeability Factor in Early-Stage Mesangial Proliferative
Glomerulonephritis
Kukiko Noguchi, Norishige Yoshikawa, Seiko Ito-Kariya, Yuji Inoue, Yoshitake Hayashi, Hiroshi Ito, Hajime Nakamura,
Kazumoto Iijima
1815

Inhibition of Calcitriol-Induced Monocyte CD14 Expression by Uremic Toxins: Role of Purines
Griet Glorieux, Chen H. Hsu, Rita de Smet, Annemieke Dhondt, Jacqueline van Kaer, Pascale Vogeleere, Norbert Lameire,
Raymond Vanholder
1826

Mineral Metabolism and Bone Disease

Altered Instantaneous and Calcium-Modulated Oscillatory PTH Secretion Patterns in Patients with Secondary
Hyperparathyroidism
Claus P. Schmitt, Daniela Huber, Otto Meb, Jörg Maiwald, Günther Stein, Johannes D. Veldhuis, Eberhard Ritz,
Franz Schaefer
1832

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High Phosphate Level Directly Stimulates Parathyroid Hormone Secretion and Synthesis by Human Parathyroid Tissue In Vitro

Yolanda Almaden, Alexis Hernandez, Vicente Torregrosa, Antonio Canalejo, Luis Sabate, Laureano Fernandez Cruz, Jose M. Campistol, Armando Torres, Mariano Rodriguez

Molecular Medicine, Genetics, and Development

A Spectrum of Mutations in the Polycystic Kidney Disease-2 (PKD2) Gene from Eight Canadian Kindreds

York Pei, Ning He, Kairong Wang, Margarette Kasenda, Andrew D. Paterson, Gabrielle Chan, Yan Liang, Janet Roscoe, Jane Brisenden, Donna Hefferton, Patrick Parfery, Stefan Somlo, Peter St. George-Hyslop

Functional Studies of Twelve Mutant V_{2} Vasopressin Receptors Related to Nephrogenic Diabetes Insipidus: Molecular Basis of a Mild Clinical Phenotype

Youssef Ala, Denis Morin, Bernard Mouillac, Nancy Sabatier, Rosa Vargas, Nathalie Cote, Michèle Déchaux, Corinne Antiguac, Marie-Francoise Arthus, Michèle Lonergan, Maria S. Turner, Marie-Noelle Balestre, Gérard Alonso, Marcel Hibert, Claude Barberis, Geoffrey N. Hendy, Daniel G. Bichet, Serge Jard

Expression of SET, an Inhibitor of Protein Phosphatase 2A, in Renal Development and Wilms' Tumor

Sara G. Carlton, Eudora Eng, Eung-Gook Kim, Elizabeth J. Perlman, Terry D. Copeland, Barbara J. Ballermann

Pathophysiology of Renal Disease

Differential Effects of Antibodies to Vascular Cell Adhesion Molecule-1 and Distinct Epitopes of the α4 Integrin in HgCl_{2}-Induced Nephritis in Brown Norway Rats

Esther Escudero, Marta Nieto, Ana Martín, Ana Molina, Roy R. Lobb, Francisco Sanchez-Madrid, Francisco Mampaso

Tissue-Specific Responses of Branched-Chain α-Ketoacid Dehydrogenase Activity in Metabolic Acidosis

S. Russ Price, Xiaonan Wang, James L. Bailey

Clinical Nephrology

Factors Predictive of the Short- and Long-Term Efficacy of Growth Hormone Treatment in Prepubertal Children with Chronic Renal Failure

Dieter Haffner, Elke Wühl, Franz Schaefer, Richard Nissel, Burkhard Tönshoff, Otto Mehl, The German Study Group for Growth Hormone Treatment in Chronic Renal Failure

Factors Relating to Urinary Protein Excretion in Children with Autosomal Dominant Polycystic Kidney Disease

Cindy Sharp, Ann Johnson, Patricia Gabow

Determinants of Renal Outcome in Anti-Myeloperoxidase-Associated Necrotizing Crescentic Glomerulonephritis


Effect of Single Dose Resin-Cathartic Therapy on Serum Potassium Concentration in Patients with End-Stage Renal Disease

Christine Gruy-Kapral, Michael Emmett, Carol A. Santa Ana, Jack L. Porter, John S. Fordtran, Kenneth D. Fine

Dialysis

Longitudinal Lipid Profiles on CAPD: Their Relationship to Weight Gain, Comorbidity, and Dialysis Factors

Jane Little, Louise Phillips, Lesley Russell, Anne Griffiths, Gavin I. Russell, Simon J. Davies

Mortality in End-Stage Renal Disease Is Associated with Facility-to-Facility Differences in Adequacy of Hemodialysis

William M. McClellan, J. Michael Soucie, W. Dana Flanders

Transplantation

Chronic Allograft Nephropathy in the Rat Is Improved by Angiotensin II Receptor Blockade But Not by Calcium Channel Antagonism

Susana C. Amuchastegui, Nadia Azzollini, Marilena Mister, Angela Pezzotta, Norberto Perico, Giuseppe Remuzzi
DISEASE OF THE MONTH
Peritonitis as a Complication of Peritoneal Dialysis
Beth Piraino

MILESTONES IN NEPHROLOGY

ANNOUNCEMENTS

Cover picture: Schematic representation of the V2 receptor with loss of function mutations responsible for X-linked nephrogenic diabetes insipidus indicated with shaded symbols. For a full description, see the related article in this issue by Youssef Ala et al., pp 1965–1970.