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

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

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

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

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

Immunology and Pathology

Improved Survival and Amelioration of Nephrotoxic Nephritis in Intercellular Adhesion Molecule-1 Knockout Mice

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

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 Kuer, Pascale Vogeleere, Norbert Lameire, Raymond Vanholder

Mineral Metabolism and Bone Disease

Altered Instantaneous and Calcium-Modulated Oscillatory PTH Secretion Patterns in Patients with Secondary Hyperparathyroidism
Claus P. Schmitz, Daniela Huber, Otto Mehl, Jorg Maiwald, Gunther Stein, Johannes D. Veldhuis, Eberhard Ritz, Franz Schaefer

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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 1845

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 Brissenden, Donna Hefferton, Patrick Parfrey, Stefan Somlo, Peter St. George-Hyslop 1853

Functional Studies of Twelve Mutant V₂ Vasopressin Receptors Related to Nephrogenic Diabetes Insipidus: Molecular Basis of a Mild Clinical Phenotype
Youssef Alaa, Denis Morin, Bernard Mouillac, Nancy Sabatier, Rosa Vargas, Nathalie Cotte, Michèle Déchaux, Corinne Antignac, Marie-Françoise Arthur, Michèle Lonergan, Maria S. Turner, Marie-Noëlle Balestre, Gérard Alonso, Marcel Hibert, Claude Barberis, Geoffrey N. Hendy, Daniel G. Bichet, Serge Jard 1861

Expression of SET, an Inhibitor of Protein Phosphatase 2A, in Renal Development and Wilms’ Tumor
Sara G. Carlson, Eudora Eng, Eung-Gook Kim, Elizabeth J. Perlman, Terry D. Copeland, Barbara J. Ballermann 1873

Pathophysiology of Renal Disease
Differential Effects of Antibodies to Vascular Cell Adhesion Molecule-1 and Distinct Epitopes of the α4 Integrin in HgCl₂-Induced Nephritis in Brown Norway Rats
Esther Escudero, Marta Nieto, Ana Martin, Ana Molina, Roy R. Lobb, Francisco Sanchez-Madrid, Francisco Mampaso 1881

Tissue-Specific Responses of Branched-Chain α-Ketoacid Dehydrogenase Activity in Metabolic Acidosis
S. Russ Price, Xiaonan Wang, James L. Bailey 1892

Clinical Nephrology
Factors Predictive of the Short- and Long-Term Efficacy of Growth Hormone Treatment in Prepubertal Children with Chronic Renal Failure
Dieter HaJfizer, Elke Wńhl, Franz Schaefer, Richard Nissel, Burkhard Tőnshoff, Otto Mehl, The German Study Group for Growth Hormone Treatment in Chronic Renal Failure 1899

Factors Relating to Urinary Protein Excretion in Children with Autosomal Dominant Polycystic Kidney Disease
Cindy Sharp, Ann Johnson, Patricia Gabow 1908

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 1924

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 1931

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 1940

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 1948
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.