Contents, Vol. 11, No. 5, 1993

Extramural Grant Program Meeting

Introduction
273

Abstracts
275

Abstract Number
Access
R.D. Jenkins, B. Chen, J.E. Funk Louisville, Ky., USA
Hydraulics of Arteriovenous Systems
1
M.J. Moritz, A. Besarab, K. Sullivan Philadelphia, Pa., USA
Early Detection of Arteriovenous Bridge Graft Stenosis
2
G.J. Picha
Independence, Ohio, USA
Development of a Percutaneous Connector
3
4
R.R. Bollinger
Durham, N.C., USA
Acute Renal Failure
M.H. Bamberger, L. Qien East Orange, N.J., USA
Molecular Response to Calcium Channel Blockers Expressed during Reperfusion following
Acute Renal Ischemia
5
R.L. Baranowski, C. Westenfelder Salt Lake City, Utah, USA
Cellular Volume Regulation in Uremia
6
S.A. Hilden, C.A. Johns, N.E. Madias Boston, Mass., USA
Response of Heat Shock Proteins and Renal Function following Preischemic Heat Stress
7
C.M. Lockwood, J. Elliott, Plasmapheresis in the Treatment of Systemic and Renal Vasculitis
8
H. Waldmann
Cambridge, UK
267

Abstract Number
M.S. Paller
Minneapolis, Minn., USA
Effects of Hypoxia/Reoxygenation or Cytoskeletal Disruption on Lateral Diffusion of Membrane Lipids and Proteins
9
S.G. Shaw, P. Weidmann Bern, Switzerland
Potential Mechanisms of Hydrogen Peroxide-Induced Damage in Cultured Rat Glomerular Mesangial Cells
10
N.J. Siegel, Ivy I. Boydstun, Thomas O. Carpenter
New Haven, Conn., USA
Treatment of Acute Renal Failure with Thyroxin
11
R. Solomon, J. D’Elia, D. Mann
Boston, Mass., USA
Prevention of Contrast-Induced Acute Renal Failure (CIARF) in a High-Risk Group
12
ß2M Amyloidosis
A. Argilés
Montpellier, France
ß2-Microglobulin Isoforms, Antiproteases and Cells in Dialysis-Associated Amyloidosis
13
D. Brancaccio, G.M. Ghiggeri, A. Garberi, G. Coggi, P. Brakdotti
Milan, Italy
Role of the 85-kDa Protein in Dialysis-Related Amyloidosis
14
R.M. Murphy
Madison, Wisc., USA
Mechanisms of ß2-Microglobulin Amyloidogenesis
15
Boston, Mass., USA
Characterization of P2-Microglobulin Protein from Fibril Deposits in Dialysis Amyloidosis
16
D.M. Spiegel, N. Costante, A.M. Janiga, M. Haas, K. Soltani
Chicago, III., USA
Amyloid P Component, ß2-Microglobulin, and Dialysis-Related Amyloid
17
S.M. Sprague
Chicago, III., USA
Mechanism of ß2-Microglobulin-Induced Bone Loss
18
J. Zingraff, N. Caillat-Vigneron
125I-Serum P Component (SAP) Kinetics in Hemodialysis Patients
19
L. Bererhi, E.-R. Cagné, P. Lesavre, T.B. Drücke
Paris/Bobigny, France
Biocompatibility
B. Descamps-Latscha, A. Herbelin, Cytokines in the Progression of Renal Failure 20
Paris/Pontoise, France/
Geneve, Switzerland
M.K. Dewanjee, M. Kapadvanjwala, Platelet Thrombosis and Fragmentation during
Hemodialysis 21
W. Jy, Y. Ahn, G. Zilliruelo, A.N. Serafini, G.N. Sfakaianakis Miami, Fla., USA

Contents
Abstract Number
B.J.G. Pereira, A.J. King, J.A. Strom, C.A. Dinarello
Boston, Mass., USA
Reuse of Dialysis Membranes Does Not Attenuate the Dialysis-Induced Alterations in Cytokine
Production by Peripheral Blood Mononuclear Cells
22

M.A. Friedlander
Cleveland, Ohio, USA
Glucose Dialysate and the Monocyte Cytokine Response
23

A. Jörres, K. Ludat, K. Sander, G.M. Gahl
Berlin-Charlottenburg, FRG
Effect of CAPD on Peritoneal Fibroblast Function.
I. Establishment and Characterization of Human Peritoneal
Fibroblast (HPFB) Cell Cultures
24

R.G. Victor
Dallas, Tex., USA
Nitric Oxide Modulates Cardiac Vagal Afferent Inhibition of Sympathetic Nerve Activity during
Hypovolemic Hypotension in Rats: Potential Implications for the Treatment of Hypotension
during Hemodialysis
29

Diabetes
K. Duggan, M. Makarios, J.A. Charlesworth, G.J. Macdonald Sydney, Australia
Regulation of the Angiotensin II Receptor in Diabetes
30

J.M. Davison
Newcastle upon Tyne, UK
Pregnancy and Diabetic Nephropathy: Interaction and Prognoses 31

E.N. Ellis, B.A. Warady, E.G. Wood, W.P. Richardson, T.B. Wiegmann Little Rock, Ark./
Kansas City, Mo./St. Louis, Mo./ Kansas City, Kans., USA
Glomerular Structure and Function in Early Type I Diabetes mellitus

A.J. Felsenfeld
Los Angeles, Calif., USA
Diabetic Renal Failure and Secondary Hyperparathyroidism

B.J. Jackson
Melbourne, Australia
Angiotensin-Converting Enzyme (ACE) and Angiotensin Receptor Studies in the Normotensive, Hypertensive and Diabetic Rat

W.F. Keane
The Role of Lipids in the Nephropathy of Type II Diabetes

Minneapolis, Minn., USA
Abstract Number

T.W. Meyer, B.D. Myers, R.G. Nelson, Glomerular Structure and Function in Type II Diabetes mellitus

P.L. Miller
Stanford, Calif./Phoenix, Ariz., USA


Ann Arbor, Mich., USA

R. Friedman, R. Dodds, M. Sethi, Quality of Protein and Insulin Resistance in Diabetic Patients

D. Arvanitis, G.C. Viberti, Microalbuminuria

London, UK

Nutrition

E. Fernández-Repollet, L. Díaz, L. Bonilla
San Juan, P.R., USA
Role of Age and Cell Proliferation in Gentamicin Nephrotoxicity during Low Protein Intake

J.D. Kopple, D. Fouque, S. Peng Los Angeles, Calif., USA
Treatment of Malnourished CAPD Patients with rhIGF-I

V.S. Lim, D.M. Bier, M.J. Flanigan, S.T. Sum-Ping
Iowa City, Iowa/St. Louis, Mo., USA
The Effect of Hemodialysis on Protein Metabolism: A Leucine Kinetic Study

M. Loghman-Adham, G.T. Motock, N.A. Custer
Salt Lake City, Utah, USA
Use of Phosphonoformic Acid (PFA) in Chronic Renal Failure (CRF)
42
D.C. Wheeler, R.S. Chana, G. Thomas, M. Davies, J.D. Williams Cardiff, UK
Cellular Mechanisms of Lipid-Induced Renal Injury
43
M. Wolfson, C.L. Shuler Portland, Oreg., USA
Effect of Acidemia on Protein Turnover
44
Pathophysiology

F.F. Jung, T.M. Kennefick, Renin Angiotensin System and the Aging Kidney 45
B. Bouyounes, R. Barrio, J.R. Ingelfinger, S. Anderson
Portland, Oreg./Boston, Mass., USA
R.C. Atkins, D. J. Nikolic-Paterson Cytokines in the Progression of Glomerulonephritis 46
Melbourne, Australia
B. Bastani, L. Yang Regulation of H-ATPase Polarization in Osteoclasts (OC) and 47
St. Louis, Mo., USA Intercalated Cells (IC)
C. Baylis, S. Masilamani, C. Hill, Renin-Angiotensin and Sodium Sensitivity in Aging48
K. Engels
Morgantown, W. Va., USA
270
Contents
Abstract Number

M. Brezis
Jerusalem, Israel
Determinants of Intrarenal Oxygenation 49
F.A. Carone, S. Nakamura, Y.S. Kanwar
Chicago, Ill., USA
Impaired Tubulogenesis of Human Renal Cyst-Derived Cells in Collagen Gel 50
J.R. Diamond
Hershey, Pa., USA
Macrophages, Cytokines, and Progressive Glomerulopathy 51
Sydney, NSW, Australia
Iron and Reactive Oxygen Species in Chronic Renal Disease 52
G. Hercz, Y. Pei, W. Chan, D.J. Sherrard
Toronto, Ont., Canada
Aplastic Osteodystrophy: Pathogenesis and Treatment 53
S.R. Holdsworth, P.G. Tipping, N.W. Boyce
Clayton, Australia
Cytokine Regulation of Glomerular Fibrin Deposition
54
C.H. Hsu
Ann Arbor, Mich., USA
Effect of Vitamin D Metabolites on Calcitriol Degradation Enzymes in Renal Failure
55
Boston, Mass., USA
Effect of Uremia on Gene Expression in the Liver
56
M. Kashgarian, L.H. Block, R. Ziesche New Haven, Conn., USA
Role of Granulocyte Inhibitory Protein in Uremia
57
V.R. Kelley, C. Martin, R.D. Bloom Boston, Mass., USA
Pivotal Role for Colony-Stimulating Factor 1 (CSF-1) in the Induction of Lupus Nephritis
58
M. Kitamura, T. Shirasawa, N. Maruyama Tokyo, Japan
Gene Transfer of Metalloproteinase Transin Induces Aberrant Behavior of Cultured Rat Mesangial Cells (MCs)
59
R.D. London
New York, N.Y., USA
Permeabilities and Ionic Conductances in Renal Failure
60
B.F. Murphy
Melbourne, Australia
Novel Matrix Components Expressed in Glomerulosclerosis
61
D.M. Jefferson, S.A. Grubman, R.D. Perrone
Boston, Mass., USA
Molecular Basis of Decreased Na, K-ATPase Pumps in Uremia: A New Cellular Model System to Study Regulation of Na, K-ATPase Gene Expression in Uremia
62
J. Williams, M. Pearse, D. Power Melbourne, Australia
Signalling by the Epidermal Growth Factor Receptor in Glomerulonephritis
63
B.H. Rovin
Columbus, Ohio, USA
IL-1 Regulation of MCP-1 Gene Expression in Mesangial Cells
64
F.P. Schena, L. Gesualdo, Molecular Approaches to the Role of Cytokines and Growth Factors in the Pathogenesis of Human Glomerulonephritides
Bari, Italy
271
Abstract Number
A.D. Sniderman, Z. Zhang, H. Vu, Y. Tao, K. Cianflone Montreal, Canada
The Role of Amino Acids in apoB100 Synthesis and Catabolism in HepG2 Cells
66

RA.K. Stahl
Frankfurt, FRG
Expression of Monocyte/Macrophage Chemoattractant Cytokines in Proliferative
Glomerulonephritis
67

Charlottesville, Va./Salem, Va./Bay Pines, Fla./Galveston, Tex., USA
Evidence for Attenuation of Hypothalamic GnRH Impulse Strength with Preservation of
Gonadotropin-Releasing Hormone (GnRH) Pulse Frequency in Men with Chronic Renal Failure
68

Transplant

A.J.F. dApice
Melbourne, Australia
Mechanisms of Xenograft Hyperacute Rejection
69

P.C. Grimm
Winnipeg, Canada
Cytokine Generation Patterns in Kidney Transplantation
70

C.Y. Lu, A. Ar’Rajab, I. Dawidson, S.C. Sicher, W. Wright Dallas, Tex., USA
Effects of Ischemia and Transplantation on Expression of Major Histocompatibility and
Adhesion Molecules on the Cell Surfaces of Rodent Renal Tubule Cells
71

H. Stewart, M. Woodward, W. Hawthorn, P.J. O’Connell Sydney, Australia
T-Cell Effector Function in Xenograft Rejection
72

G. Xu, J.C. Wang, D. Serur, B. Li, J. Mouradian, R. Haschemeyer, K.H. Stenzel, M.
Suthanthiran New York, N.Y., USA
Human Renal Graft Rejection: Molecular Characterization Including Quantification of Intragraft
Gene Expression
73

Transport/Adequacy
T.F. Parker, III, R.M. Hakim
Dallas, Tex./Nashville, Tenn., USA
Interrelationships of Dialysis Prescription, Protein Catabolic Rate, and Morbidity/Mortality with Dialyzer Biocompatibility
74

D. Zemel, R.T. Krediet
Amsterdam, The Netherlands
Effects of Mediators on Permeability to Macromolecules during Peritonitis in CAPD
75

Dallas, Tex., USA
Improved Kinetic Modeling to Prevent Dialysis Complications
76

Author Index
345

272
Contents