Contents, Vol. 7, 1984

No. 1 Original Paper
Definition of the Glomerular Basement Membrane
Lubec, G  1

Glomerulotubular Balance and Prostaglandin Synthesis
Langberg, H.; Hartmann, A.; Vikse, A.; Kiil, F  3

Indomethacin Inhibits Renal Functional Adaptation to Nephron Loss
Hahne, B.; Sejlen, G.; Erik, A.; Persson, G  13

Effect of Ischemia and Hypertonic Saline Loading on Renal Adenine Nucleotides
Knutsen Urbaitis, B  22

Renal Recovery from Metabolic Acidosis in the Rat: No Role for Glutamine Synthetase
Duong, N.; Vinay, P.; Khoury, N.; Guern, C; Gougoux, A  32

Single-Nephron Hemodynamics in One-Kidney One-Clip Hypertension in the Rat
Schwietzer, G.; Gertz, K.-H  46

Compositional Changes of the Corticopapillary Osmotic Gradient during Dehydration in the Absence of Vasopressin
Williamson, G.L.; Edwards, B.R  54

No. 2 Original Paper
The Renal Brush Border Membrane in Man. Protein Pattern, Inorganic Phosphate Binding and Transport: Comparison with Other Species
Béliveau, R.; Brunette, M.G  65

Effects of Verapamil – a Calcium Inhibitor – on the Vasomotor Response of Cortical and Juxtamedullary Glomeruli of the Human Kidney
Martin-Dupont, P.; Cambar, J.; Brothier, J.P  72

The Effect of Streptozotocin and Streptozotocin-Induced Diabetes on the Kidney
Evan, A.P.; Mong, S.A.; Gattone, V.H.; Connors, B.A.; Aronoff, G.R.; Luft, F.C. ... 78

Kidney Function during Decreased Perfusion Pressure Due to Aortic Clamping and Hemorrhagic Hypotension: A Single Nephron Study in Dog Kidney
Heller, J.; Horácek, V  90

Plasma Kinin Levels in Acute Renovascular Hypertension in Dogs

Glucocorticoid-Induced Inhibition of the Reabsorption of Inorganic Phosphate in the Proximal Tubule in the Absence of Parathyroid Hormone
Durasin, I.; Frick, A.; Neuweg, M  115

Sex Difference of N-Acetyl-ß-D-Glucosaminidase Activity in the Kidney, Urine, and Plasma of Mice

No. 3 Original Paper
Permselectivity: Relation between Foot Process Simplification and Macromolecular Configuration
Luke, R.L. 111 129

Isolation and Characterization of a Microvascular Fraction from Rabbit Kidney Cortex
Helwig, J.J.; Judes, C; Bollack, C; Mandel, P 146

Contents
II
Effect of a Subtotal Nephrectomy on the Excretion of Urinary Alanine Aminopeptidase and Gamma Glutamyltransferase in the Male Wistar Rat. A Long-Term Study
Stoykova, S.; Philippon, C; Labaille, F.; Prevot, D.; Mondorf, A.W.; Manuel, Y. ... 156 Role of Prostaglandins in the Production of Natriuretic Factor by the Isolated Rat Kidney
Cambier, P.; Godon, J.P 163

Quantitative Morphological Studies of Aging Changes in the Kidney of the Lewis Rat

Hypocalciuric Effects of Hydrochlorothiazide in the Rat during NaHCO₃, NaCl and NH₄Cl Loading
Goulding, A.; Campbell, D 185

Book Reviews 192
No. 4 Editorial Review
Tubular Reabsorption in Normal Renal Function
O’Connor, W.J 193

Original Paper
Effects of Natriuretic Fractions of Human Urine on the Isolated Anococcygeus Muscle of the Rat
Chakravarty, B.; Mills, I.H.; Callingham, B.A 205

Suppression of Proteinuria by Dipyridamole in Rats with Aminonucleoside Nephropathy
Nagase, M.; Kumagai, H.; Honda, N 218

Morphological and Statistical Investigation of the Occurrence of ‘Tubule-Like Cells’ in the Renal Corpuscle of the Mouse Kidney Induced by Sex Hormones
Barberini, F.; Familiari, G.; Vittori, I.; Carpino, F.; Melis, M 227

Expression of Plasma Renin Activity in Terms of Urinary Sodium Excretion and Posture in Normal Subjects on Free Sodium Intake

Evaluation of Renal Function during Intrarenal Norepinephrine Infusion in Conscious Rats
Kleinjans, J.C.S.; Smits, J.F.M.; Kasbergen, CM.; van Essen, H.; Struyker-Boudier, H.A.J 243

Abstracts
Intrinsic Nephron Control Mechanisms
Satellite Symposium of the XXIXth International Congress of the International Union of Physiological Sciences, Parkville, August 25-26, 1983 251

No. 5 Original Paper
Head-Up Tilt in the Nonhuman Primate. Effects of Renal Denervation
Peterson, T.V.; Chase, N.L.; Gray, D.K 265

Changes in Salt Intake Alter the Release of Multiple Renin Species in a Nonuniform
Manner
Katz, S.A.; Malvin, R.L 275
Studies on the Nephron Segment with Reduced Sodium Reabsorption during Starvation Natriuresis
Satta, A.; Faedda, R.; Olmeo, N.A.; Soggia, G.; Branca, G.F.; Bartoli, E 283

Contents
Effects of Volume Expansion with Fluo[so]-DA on Renal Function of the Nonhuman Primate
Roccaforte, W.H.; Wesley, C.R.; Gilmore, J.P 293
Effects of Captopril on the Renal Hemodynamics during Aprotinin Infusion in Anesthetized Dogs
Mizumura, Y.; Matsumoto, M.; Nishino, A.; Takata, M.; Iida, H.; Sugimoto, T. ... 299
Stereo-Specificity of Diuretic Receptors in the Nephron: A Study of the Enantiomers of Indacrinone (MK-196) in Man
Brooks, B.A.; Lant, A.F.; McNabb, W.R.; Noormohamed, F.H 304
Effect of Loop of Henle Flow Rate on Glomerular Capillary Pressure
Briggs, J.P 311
In vitro Correlation of Glutamine and Glutamate Renal Ammoniagenesis during Adaptation
No. 6 Original Paper
Effects of Verapamil and Nifedipine on Renal Function and Hemodynamics in the Dog
Bell, A.J.; Lindner, A 329
Angiotensin II Effects upon Glomerular Intracapillary Volume in the Rat
Fujiwara, Y.; Kikkawa, R.; Kitamura, E.; Takama, T.; Shigeta, Y 344
Taurine Transport in Brush Border Membrane Vesicles Isolated from Hyper- and Normo-taurinuric Mouse Kidney
Jean, T.; Poujeol, P.; Ripoche, P 349
Glomerular Albumin Leakage and Morphology after Neutralization of Polyanions. I. Albumin Clearance and Sieving Coefficient in the Isolated Perfused Rat Kidney
Assel, E.; Neumann, K-H.; Schurek, H.-J.; Sonnenburg, C; Stolte, H 357

Abstracts
7th International Symposium on Biochemical Aspects of Kidney Function.
Smolenice, Czechoslovakia, April 9-12, 1984 365

Author Index 383
Subject Index 386

Drug Dosage
The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.