CONTENTS

Editorial Review: Thyroid-stimulating hormone: Neuroregulation and clinical applications. M. F. Scanlon, B. Rees Smith and R. Hall 1–10

Renin release from renin granules in the dog. S. Funakawa, T. Higashio and K. Yamamoto 11–14


Blood alcohol and impairment of judgment. J. E. F. Pohl 57–61


Determinants of high blood pressure in salt-deprived renal hypertensive rats: role of changes in plasma volume, extracellular fluid volume and plasma angiotensin II. A. J. Mourant 81–87

Catecholamines in peripheral venous plasma in patients on chronic haemodialysis. B. P. McGrath, J. G. G. Ledingham and C. R. Benedict 89–96

Gastric ulcers with and without associated duodenal ulcer have different pathophysiology. S. K. Lam and C. L. Lai 97–102


Impaired skeletal muscle vasomotor response to infused noradrenaline in baboons with obstructive jaundice. L. Bomzon, P. B. Wilton and T. A. McCalden 109–112

Effects of concentration-polarization on the filtration of proteins through filters constructed from isolated renal basement membrane. T. G. Cotter and G. B. Robinson 113–119

Short Communications

Parallel changes between lipoprotein lipase activating capacity and lipid concentrations in the serum of rats and ferrets during development and dietary manipulation. A. Cryer and H. J. Jones 121–123


Metabolism of intact and desialylated α1-antitrypsin. E. A. Jones, J. Vergalla, C. J. Steer, P. R. Bradley-Moore and J. M. Vierling 139–148

Biphasic changes in thymus structure during evolving renal hypertension. R. E. Chatelain and C. M. Ferrario 149–156

Analytical subcellular fractionation and studies on enterocytes from the jejunum and ileum of the rat and some properties of brush-border alkaline phosphatase. R. M. Batt and T. J. Peters 157–165


Effect of varying PCO2 on intracellular pH and lactate consumption in the isolated perfused rat liver. P. G. Baron, R. A. Iles and R. D. Cohen 175–181

Mechanism of the effect of varying PCO2 on gluconeogenesis from lactate in the perfused rat liver. R. A. Iles, P. G. Baron and R. D. Cohen 183–188


Intestinal absorption and tissue retention of cadmium and calcium in normal adult rats and rats given an active metabolite of vitamin D (1,25-dihydroxycholecaliferol). R. Lorentzon and S.-E. Larsson 195–198

Galactose and hepatic metabolism in malnutrition and sepsis in man. G. Royle, M. G. W. Kettlewell, V. Ilic and D. H. Williamson 199–204


Short Communication

Post-mortem migration of bone-seeking radionuclides in the rat and rabbit and its effect on estimates of bone uptake. P. Tothill and J. N. Macpherson 211–223


Contents

Partial characterization of aortic renin in the spontaneously hypertensive rat and its interrelationship with plasma renin, blood pressure and sodium balance. J. D. Barrett, P. Eggena and M. P. Sambhi 261–270

Effect of unconjugated and conjugated phenol and uraemia on the synthesis of adenosine 3':5'-cyclic monophosphate in rat brain homogenates. G. A. Turner and E. N. Wardle 271–275


Analytical subcellular fractionation of jejunal biopsy specimens: enzyme activities, organelle pathology and response to corticosteroids in patients with non-responsive coeliac disease. T. J. Peters, P. E. Jones, W. J. Jenkins and G. Wells 293–300

Vasopressin effects on plasma renin activity in male and female rats. I. W. Henderson, R. J. Balment and J. A. Oliver 301–307

The respiratory response to inhaled carbon dioxide in man after 3 hours exposure to 3% carbon dioxide. K. Prowse, C. Duvivier, R. Peslin and P. Sadoul 309–316

Short Communication

The distribution of cardiac output in the anaesthetized spontaneously hypertensive rat. C. R. Hiley and M. S. Yates 317–320

Medical Research Society (Meeting on 7 and 8 July 1978)
Communications 1p–31p

Vol. 55, No. 4 October 1978

Excretion of urea by the foetal guinea pig. J. Horn 329–333
Effect of prolactin on glomerular filtration rate. A. L. Riley, T. C. Hagen and J. E. Stefanaik 335–339
Effect of acute ethanol administration on liver oxidative capacity in rats. L. A. Videla 341–347
Age-dependent difference of kidney response to temporary ischaemia in the rat. J. Kuneš, K. Čapek, J. Stejskal and J. Jelínek 365–368
Identification of a delivery-related influence on proximal tubular reabsorption during expansion with hyperoncotic albumin in the rat. J. F. Donohoe, G. S. Lefavour, S. Cortell and F. J. Gennari 369–376
Hepatic elimination of renin in man. B. Hesse, E. Damgaard Andersen and H. Ring-Larsen 377–382
Changes in hepatic enzymes and organelles in alcoholic liver disease. C. A. Seymour and T. J. Peters 383–389
Effects of chronic renal insufficiency and metabolic acidosis on glutamine metabolism in man. A. Tizianoello, G. De Ferrari, G. Garibotto and G. Gurreri 391–397
## Contents

Adenine and adenosine metabolism in intact erythrocytes deficient in adenosine monophosphate–pyrophosphate phosphoribosyltransferase: a study of two families.  

### SHORT COMMUNICATION

Tracing the fate of oxygen consumed during phagocytosis by human neutrophils with $^{15}O_2$.  
**A. W. SEGAL, J. CLARK and A. C. ALLISON**  413–415

### VOL. 55, No. 5  NOVEMBER 1978

**A. GUZ and D. MCHAFFIE**  417–421

Analytical subcellular fractionation studies on different cell types isolated from normal rat liver.  
**C. SELDEN, A. M. WOOTON, D. W. MOSS and T. J. PETERS**  423–427

The tubular reabsorption of phosphate in sickle-cell nephropathy.  

The effects of prednisolone on the rat enterocyte at a subcellular level.  
**R. M. BATT, G. WELLS and T. J. PETERS**  435–443

Comparison of cardiac output determined by a carbon dioxide-rebreathing and direct Fick method at rest and during exercise.  
**T. REYBROUCK, A. AMERY, L. BILLIET, R. FAGARD and H. STIJNS**  445–452

Haemodynamics of orally-active converting enzyme inhibitor (SQ 14225) in hypertensive patients.  

The nature of hepatic cytochrome P-450 induced in hexachlorobenzene-fed rats.  
**G. H. BLEKKENHORST, L. EALES and N. R. PIMSTONE**  461–469

The effect of vibration on blood flow in skeletal muscle in the rabbit.  
**O. HUDLICKÁ and A. WRIGHT**  471–476

The physical properties of human pulmonary arteries and veins.  

Haemodynamic variables during repeated exercise in chronic lung disease.  
**F. SCHRIJEN and V. JEŽEK**  485–490

Propranolol and the ventilatory response to hypoxia and hypercapnia in normal man.  
**J. M. PATRICK, J. TUTTY and S. B. PEARSON**  491–497

Evidence for an hepatic anti-ketogenic effect of insulin in man.  
**R. S. ELKELES, R. A. CHALMERS and J. HAMBLEY**  499–504

### SHORT COMMUNICATIONS


Small-intestinal changes induced by an elemental diet (Vivonex) in normal rats.  
**L. M. ELSON, H. A. CARMICHAEL, R. I. RUSSEL and F. D. LEE**  509–511

### VOL. 55, No. 6  DECEMBER 1978

Editorial Review: The isolated perfused rat kidney.  
**B. D. ROSS**  513–521

The retention of lung secretions during the night in normal subjects.  
**J. R. M. BATEMAN, D. PAVIA and S. W. CLARKE**  523–527

Albumin/globulin ratios, colloid osmotic pressures and Lowry protein microanalysis in rat plasma.  
**D. WELLER, S. AZAR, M. A. JOHNSON and M. AZAR**  529–532
Assessment of early and delayed responses in vitamin B$_{12}$ absorption during antibiotic therapy in tropical malabsorption. A. M. Tomkins, T. Smith and S. G. Wright


The effect of established β-adrenoreceptor-blocking therapy on the release of cytosolic and lysosomal enzymes after acute myocardial infarction in man. E. Welman, K. M. Fox, A. P. Selwyn and B. J. Carroll

Acute effects of diuretics on potassium exchange, mechanical function and the action potential in rabbit myocardium. P. A. Poole-Wilson, S. M. Cobbe and C. H. Fry

A survey of salivary kallikrein and amylase in a population of schoolgirls, throughout the menstrual cycle. K. D. Bhoola, R. W. Matthews and F. Roberts

The formation of tri-iodothyronine and reverse tri-iodothyronine from thyroxine in isolated rat renal tubules. P. Heyma, R. G. Larkins, J. R. Stockigt and D. G. Campbell

**SHORT COMMUNICATION**

Hypoxanthine–guanine phosphoribosyltransferase activity in blood and skeletal muscles of normal and dystrophic mice. J. S. Neerunjun, J. Allsop and V. Dubowitz

**CORRECTION**

Control of enzymatically inactive renin in man under various pathological conditions: implications for the interpretation of renin measurements in peripheral and renal venous plasma

By F. H. M. Derkx, G. J. Wenting, A. J. Man in ’t Veld, R. P. Verhoven and M. A. D. H. Schalekamp

Volume 54 (1978)

p. 533, Fig. 3(b), abscissa: for $-5,0,5,10,15,20$ read $-25,0,25,50,75,100$