

CONTENTS

VOL. 50, No. 1

JANUARY 1976

The fate of circulating lactate dehydrogenase-5 in the rabbit. A. R. QURESHI and J. H. WILKINSON	1-14
Effect of liver failure on the cerebral circulatory and metabolic responses to hypoxia in the goat. N. N. STANLEY and N. S. CHERNIACK	15-23
Effect of liver failure on the ventilatory response to hypoxia in man and the goat. N. N. STANLEY, S. G. KELSEN and N. S. CHERNIACK	25-35
The pattern of venous drainage of surgically created side-to-side arteriovenous fistulae in the human forearm. J. P. JAMISON and W. F. M. WALLACE	37-41
Measurement by venous occlusion plethysmography of blood flow through surgically created arteriovenous fistulae in the human forearm. W. F. M. WALLACE and J. P. JAMISON	43-49
The role of the colon in urea metabolism in man. J. A. GIBSON, N. J. PARK, G. E. SLADEN and A. M. DAWSON	51-59
Synthesis of folate polyglutamates in human cells. A. V. HOFFBRAND, E. TRIPP and A. LAVOIE	61-68
A comparison of the clearance of urographic contrast medium (sodium diatrizoate) by peritoneal and haemodialysis. P. ACKRILL, C. S. McINTOSH, C. NIMMON, L. R. I. BAKER and W. R. CATTELL	69-74

SHORT COMMUNICATIONS

Acid hydrolase activities and lysosomal integrity in liver biopsies from patients with iron overload. T. J. PETERS and CAROL A. SEYMOUR	75-78
Absence of an acute effect of calcium or parathyroid hormone administration on plasma renin activity in man. S. EPSTEIN, J. SAGEL, H. BRODOVCKY, S. TUFF and L. EALES	79-81
Ventilatory response to carbon dioxide in tetanus. O. O. ELEGBELEYE and D. FEMI-PEARSE	83-86
Effects of halothane on pulmonary inactivation of noradrenaline and prostaglandin E ₂ in anaes- thetized dogs. Y. S. BAKHLE and A. J. BLOCK	87-90

VOL. 50, No. 2

FEBRUARY 1976

Multiple changes in distal stop-flow electrolyte patterns and reduction of acid excretion induced in rabbits by angiotensin. J. K. HEALY and A. J. ELLIOTT	91-102
Plasma renin activity as a function of age in two new strains of spontaneously hypertensive and normotensive rats. MADELEINE VINCENT, JEANNE DUPONT and J. SASSARD	103-107
Estimation of the resting reflex hypoxic drive to respiration in patients with diffuse pulmonary infiltration. R. A. STOCKLEY and K. D. LEE	109-114
The functional response of the dog ileum to one hour's ischaemia. J. W. L. ROBINSON, H. MENGE, F. V. SEPÚLVEDA, F. COBO and V. MIRKOVITCH	115-122
Morphology and function of the dog ileum after mechanical occlusion. V. MIRKOVITCH, F. COBO, J. W. L. ROBINSON, H. MENGE and Sz. GOMBA	123-130
Measurement of an index of muscle capillary permeability and its correlation with serum insulin values in maturity-onset diabetic subjects. C. LOWY, R. N. ARNOT and T. RUSSELL FRASER	131-138
Evidence for both luminal and systemic factors in the control of rat intestinal epithelial replacement R. M. CLARKE	139-144

MEDICAL RESEARCH SOCIETY (Annual General Meeting on 12 December 1975)

Symposium: Gut Hormones	1P
Communications	1P-33P

VOL. 50, No. 3

MARCH 1976

- The effect of chelating agents on cellular iron metabolism. G. P. WHITE, R. BAILEY-WOOD and A. JACOBS 145-152
- Glucose tolerance and insulin release in malnourished rats. C. WEINKOVE, E. A. WEINKOVE and B. L. PIMSTONE 153-163
- The acute effects of respiratory and metabolic acidosis on renal function in the dog. M. O. FARBER, J. J. SZWED, A. R. DOWELL and R. A. STRAWBRIDGE 165-169
- Cell size and glucose oxidation rate in adipose tissue from non-diabetic and diabetic obese human subjects. L. C. HARRISON and A. P. KING-ROACH 171-175
- The haemodynamic effects of metabolic acidosis in the rat. J. YUDKIN, R. D. COHEN and BARBARA SLACK 177-184
- The effect of acidosis on lactate removal by the perfused rat kidney. J. YUDKIN and R. D. COHEN 185-194
- Urinary excretion of hydroxylysyl glycosides during acute inflammation in the rat. R. ASKENASI, M. LE LOUS, S. BAZIN and V. H. RAO 195-197
- Assessment of responsiveness to carbon dioxide in patients with chronic airways obstruction by rate of isometric inspiratory pressure development. A. W. MATTHEWS and J. B. L. HOWELL 199-205
- The pressure-volume relationship in normotensive and permanent essential hypertensive patients. M. E. SAFAR, N. PH. CHAU, Y. A. WEISS, G. M. LONDON, A. CH. SIMON and P. P. MILLIEZ 207-212
- Effect of nutritional status on rat adipose tissue, muscle and post-heparin plasma clearing factor lipase activities: their relationship to triglyceride fatty acid uptake by fat-cells and to plasma insulin concentrations. A. CRYER, SUSAN E. RILEY, E. R. WILLIAMS and D. S. ROBINSON 213-221
- The relation between the excretion of sodium and water and the perfusion pressure in the isolated, blood-perfused, rabbit kidney, with special reference to changes occurring in clip-hypertension. J. M. A. THOMPSON and C. J. DICKINSON 223-236

SHORT COMMUNICATION

- A simple method of measuring breath hydrogen in carbohydrate malabsorption by end-expiratory sampling. G. METZ, M. A. GASSULL, A. R. LEEDS, L. M. BLENDIS and D. J. A. JENKINS 237-240

VOL. 50, No. 4

APRIL 1976

- Growth hormone secretion in acid-base alterations at rest and during exercise. J. R. SUTTON, N. L. JONES and C. J. TOEWS 241-247
- Post-heparin plasma lipoprotein lipase and hepatic lipase in normal subjects and in patients with hypertriglyceridaemia: correlations to sex, age and various parameters of triglyceride metabolism. J. K. HUTTUNEN, C. ENHOLM, M. KEKKI and E. A. NIKKILÄ 249-260
- The clinical measurement of skeletal blood flow. R. WOOTTON, J. REEVE and N. VEALL 261-268
- Suppression of the renin-aldosterone system in mild essential hypertension. A. M. KHOKHÄR, J. D. H. SLATER, T. P. JOWETT and N. N. PAYNE 269-276
- Polyuria associated with an antibody to vasopressin. G. W. BISSET, ANGELA BLACK, P. J. HILTON, N. F. JONES and MARGARET MONTGOMERY 277-283
- The influence of sodium intake on the pressor response to angiotensin II in the unanaesthetized rat. BARBARA L. SLACK and J. M. LEDINGHAM 285-291
- The intracellular pH of human leucocytes in response to acid-base changes *in vitro*. G. E. LEVIN, P. COLLINSON and D. N. BARON 293-299
- Arterial oxygenation and carbon dioxide tensions in the production of hypoxic electroencephalographic changes in man. A. S. REBUCK, C. DAVIS, D. LONGMIRE, A. R. M. UPTON and A. C. P. POWLES 301-306

The distribution of [¹⁴ C]cholesterol in muscle and skin of Rhesus monkeys after intravenous injection. C. D. MOUTAFIS and N. B. MYANT	307-310
SHORT COMMUNICATIONS	
Changes in the carotid body and the ventilatory response to hypoxia in chronically hypoxic rats. GWENDA R. BARER, C. W. EDWARDS and ANGELA I. JOLLY	311-313
Lipoprotein lipase and hormone-sensitive lipase activities in human subcutaneous lipomas: comparison with normal subcutaneous adipose tissue. Y. GIUDICELLI, R. PECQUERY, B. AGLI, C. JAMIN and J. QUEVAUVILLIERS	315-318
CORRESPONDENCE SECTION	
Regression lines and correlations. J. P. NICHOLSON, CAROL M. TAYLOR and M. L. LEVIN	319-320
 VOL. 50, No. 5	 MAY 1976
The spectrophotometric determination of human serum carboxypolypeptidase with angiotensin converting enzyme-like activity. J. J. SUMMARY	321-327
Rat hepatic sodium plus potassium ion-dependent adenosine triphosphatase after treatment with digoxin and thyroxine. R. LINDSAY and J. L. W. PARKER	329-332
The effect of repeated phlebotomy on bilirubin turnover, bilirubin clearance and unconjugated hyperbilirubinaemia in the Crigler-Najjar syndrome and the jaundiced Gunn rat: application of computers to experimental design. P. D. BERK, B. F. SCHARSCHMIDT, JEANNE G. WAGGONER and S. C. WHITE	333-348
Effect of phenobarbitone on plasma lipids in normal subjects. P. N. DURRINGTON, C. J. C. ROBERTS, LYN JACKSON, R. A. BRANCH and M. HARTOG	349-353
Analytical subcellular fractionation studies on rat liver and on isolated jejunal enterocytes with special reference to the separation of lysosomes, peroxisomes and mitochondria. T. J. PETERS and H. SHIO	355-366
The ventilatory response in severe metabolic acidosis. M. FULOP	367-373
The relation between functioning parietal cell and gastrin cell masses in two groups of duodenal ulcer patients. D. J. BYRNES, SHIU KUM LAM and W. SIRCUS	375-383
Disappearance of ¹²⁵ I-labelled and unlabelled insulins from blood in normal and injured rats. K. N. FRAYN	385-392
Branched-chain amino acids, nitrogen excretion and injury in man. J. H. WEDGE, R. DE CAMPOS, A. KERR, R. SMITH, ROSE FARRELL, VERA ILIC and D. H. WILLIAMSON	393-399
Turnover of plasma glucose and free fatty acids in patients on the first day after myocardial infarction. I. A. NIMMO, R. H. SMITH, M. A. DOLDER and M. F. OLIVER	401-407
Renal haemodynamics and plasma renin in patients with essential hypertension. E. B. PEDERSEN and H. J. KORNERUP	409-414
Effect of vasopressin on plasma volume and renin release in man. A. M. KHOKHÄR, J. D. H. SLATER, MARY L. FORSLING and N. N. PAYNE	415-424
Biochemical and morphological studies on human jejunal mucosa maintained in culture. C. L'HIRONDEL, W. F. DOE and T. J. PETERS	425-429
SHORT COMMUNICATION	
The porphyrinogenic effects of kryptopyrrole in the rat and the occurrence of urinary kryptopyrrole in human hereditary hepatic porphyria. M. J. BRODIE, D. J. M. GRAHAM, G. G. THOMPSON, M. R. MOORE and A. GOLDBERG	431-434

The renal handling of insulin and thyroid hormones in normal man. A. FINE, R. M. THOMSON, J. V. JONES, R. G. MURRAY, A. TWEDDLE and C. E. GRAY	435-437
The effect of anaesthesia of the airway in dog and man: a study of respiratory reflexes, sensations and lung mechanics. BRENDA A. CROSS, A. GUZ, S. K. JAIN, SIETSKE ARCHER, J. STEVENS and FELICITY REYNOLDS	439-454
The relation between potassium in body fluids and total body potassium in healthy and diabetic subjects. K. BODDY, R. HUME, C. WHITE, A. PACK, P. C. KING, E. WEYERS, T. ROWAN and E. MILLS	455-461
The encephalopathic action of five-carbon-atom fatty acids in the rabbit. P. F. TEYCHENNE, I. WALTERS, L. E. CLAVERIA, D. B. CALNE, JANE PRICE, B. B. MACGILLIVARY and D. GOMPERTZ	463-472
Effect of diphosphonates on adenosine 3':5'-cyclic monophosphate in mouse calvaria after stimulation by parathyroid hormone <i>in vitro</i> . U. GEBAUER, R. G. G. RUSSELL, M. TOUABI and H. FLEISCH	473-478
Some properties of human platelet monoamine oxidase in iron-deficiency anaemia. M. B. H. YODIM, D. G. GRAHAME-SMITH and H. F. WOODS	479-485
The effect of insulin on adenosine 3':5'-monophosphate and guanosine 3':5'-monophosphate concentrations in human plasma. K. SIDDLER, C. J. DAVIES, K. J. SHETTY and R. S. ELKELES	487-491
Effect of inhibition of gluconeogenesis on ammonia production in the perfused rat kidney. B. D. ROSS	493-498
Absorption of galactose by the rat small intestine <i>in vivo</i> : proximal-distal kinetic gradients and a new method to express absorption per enterocyte. R. M. BATT and T. J. PETERS	499-509
Effects of prednisolone on the small intestinal mucosa of the rat. R. M. BATT and T. J. PETERS	511-523
Studies of amino acid and protein metabolism in normal man with L-[U- ¹⁴ C]tyrosine. W. P. T. JAMES, P. J. GARLICK, P. M. SENDER and J. C. WATERLOW	525-532
Haemodynamic studies in dogs with chronic bile-duct ligation. S. M. SHASHA, O. S. BETTER, C. CHAIMOVITZ, J. DOMAN and Y. KISHON	533-537
Release of colony-stimulating activity from the isolated perfused rat liver. A. HOWELL, W. G. E. COOKSLEY and C. J. DANPURE	539-544
The effect of active immunization against aldosterone on the colonic potential response and sodium excretion in rabbits. R. J. LENNANE, J. STOCKIGT and W. S. PEART	545-549
 SHORT COMMUNICATION	
Plasma growth hormone concentrations in Huntington's chorea. O. T. PHILLIPSON and E. D. BIRD	551-554