

CONTENTS

VOL. 53, No. 1

JULY 1977

Guidance for Authors	i-xi
Editorial Review: Natriuretic hormone. H. E. DE WARDENER	1-8
Renal handling of dibasic amino acids and cystine in cystinuria. TOMOAKI KATO	9-15
Regulation of cardiac output during 2,4-dinitrophenol-induced tissue hypermetabolism in the dog. C. LIANG and W. B. HOOD, JR	17-25
Effect of glycylglycine on absorption from human jejunum of an amino acid mixture simulating casein and a partial enzymic hydrolysate of casein containing small peptides. P. D. FAIRCLOUGH, D. B. A. SILK, M. L. CLARK, D. M. MATTHEWS, T. C. MARRS, D. BURSTON and K. M. CLEGG	27-33
Coeliac disease: the abolition of gliadin toxicity by enzymes from <i>Aspergillus niger</i> . J. J. PHELAN, FIONA M. STEVENS, B. MCNICHOLL, P. F. FOTTRELL and C. F. MCCARTHY	35-43
Effects of clonidine on biochemical indices of sympathetic function and plasma renin activity in normotensive man. L. M. H. WING, J. L. REID, C. A. HAMILTON, P. SEVER, D. S. DAVIES and C. T. DOLLERY	45-53
The assessment of left ventricular ejection fraction in patients with ischaemic heart disease by contrast ventriculography and nuclear angiography. A. L. MUIR, W. J. HANNAN, H. M. BRASH, V. BALDWA, H. C. MILLER and B. OGILVIE	55-61
Analytical subcellular fractionation of guinea-pig myocardium. F. J. BLOOMFIELD, G. WELLS, E. WELMAN and T. J. PETERS	63-74
Effect of anticonvulsants on the uptake of 5-methyltetrahydrofolic acid by the choroid plexus in rabbits. H. TAGUCHI, Z. ABDUL-CADER, J. PERRY, E. H. REYNOLDS and I. CHANARIN	75-80
A slow component of iodine turnover in athyreotic individuals. T. SMITH and C. J. EDMONDS	81-86
An investigation into the pathogenesis of hypertension in acromegaly. M. H. SNOW, D. A. PIERCY, VALERIE ROBSON and R. WILKINSON	87-91
Effect of thyrotoxicosis on the reflex hypoxic respiratory drive. R. A. STOCKLEY and J. M. BISHOP	93-100
SHORT COMMUNICATION	
The crystalline salts of calcium bilirubinate in human gallstones. D. JUNE SUTOR and LYNETTE I. WILKIE	101-103

VOL. 53, No. 2

AUGUST 1977

Editorial Review: The non-haematological effects of iron deficiency. A. JACOBS	105-109
Effects of hexachlorobenzene feeding and iron overload on enzymes of haem biosynthesis and cytochrome P_{450} in rat liver. M. LOUW, A. C. NEETHLING, V. A. PERCY, M. CARSTENS and B. C. SHANLEY	111-116
Measurement of mouth occlusion pressure as an index of respiratory centre output in man. N. K. BURKI, L. C. MITCHELL, B. A. CHAUDHARY and F. W. ZECHMAN	117-124
Independence of ethacrynic acid-induced renal hydrogen ion excretion of sodium-volume depletion in man. A. Z. GYÖRY and DIANNE LISSNER	125-132
Effect of pharmacological inhibitors on urate transport during induced uricosuria. H. S. DIAMOND and A. D. MEISEL	133-139

The role of inhibitors and other factors in the pathogenesis of recurrent calcium-containing renal stones. J. M. BAUMAN, S. BISAZ, R. FELIX, H. FLEISCH, U. GANZ and R. G. G. RUSSELL	141-148
Failure of loading with sodium bicarbonate to protect against acute renal failure induced by mercuric chloride in the rat. J. E. BEAUMONT, T. A. KOTCHEN, J. H. GALLA and R. G. LUKE	149-154
The association between fasting hyperbilirubinaemia and serum non-esterified fatty acids in man. R. E. COWAN, R. P. H. THOMPSON, J. P. KAYE and GILLIAN M. CLARK	155-163
The variable-pressure neck-chamber method for studying the carotid baro-reflex in man. L. LUDBROOK, G. MANCIA, A. FERRARI and A. ZANCHETTI	165-171
Nitrogen metabolism in neonatal citrullinaemia. M. WALSER, M. BATSHAW, G. SHERWOOD, B. ROBINSON and S. BRUSILOV	173-181
The effect of disuse muscular atrophy on the forces generated in dynamic exercise. A. J. SARGEANT and C. T. M. DAVIES	183-188

SHORT COMMUNICATIONS

Evidence that 'inactive' renin is produced outside the kidney of the rat. R. VANDONGEN, MARIANNE POESSÉE, K. D. STRANG and W. H. BIRKENHÄGER	189-191
Renal clearance of unbound bilirubin in the rat. MARIÁ MÓNICA ELÍAS, E. J. COMIN and E. A. RODRIGUEZ GARAY	193-196

VOL. 53, No. 3

SEPTEMBER 1977

Editorial Review: Defects of enzyme regulation in metabolic disease. D. J. GALTON, D. J. BETTERIDGE, K. G. TAYLOR, G. HOLDSWORTH and J. STOCKS	197-203
Influence of ethanol on non-esterified fatty acid and carbohydrate metabolism during exercise in man. A. JUHLIN-DANNFELT, L. JORFELDT, L. HAGENFELDT and B. HULTEN	205-214
The role of alanine and glutamine in steroid-induced nitrogen wasting in man. D. G. SAPIR, T. POZEFSKY, J. P. KNOCHEL and M. WALSER	215-220
The passage of apoproteins from plasma lipoproteins into the lipoproteins of peripheral lymph in man. D. REICHL, N. B. MYANT, J. J. PFLUG and D. N. RUDRA	221-226
Effects of adrenaline injection on human plasma tryptophan and non-esterified fatty acids. V. GENTIL, M. H. LADER, B. D. KANTAMANENI and G. CURZON	227-232
Potentialiation of pressor effects of noradrenaline and potassium ions in the rat mesenteric arteries by physiological concentrations of angiotensin II: effects of prostaglandin E ₂ and cortisol. K. KONDO, M. S. MANKU, D. F. HORROBIN, R. BOUCHER and J. GENEST	233-239
A reappraisal of 'osmotic' evidence for intact peptide absorption. P. D. FAIRCLOUGH, D. B. A. SILK, J. P. W. WEBB, M. L. CLARK and A. M. DAWSON	241-248
Influence of deoxycholic acid on biliary lipids in man. J. AHLBERG, B. ANGELIN, K. EINARSSON, K. HELLSTRÖM and B. LEJND	249-256
Muscle metabolism during exercise in hemiparetic patients. S. LANDIN, L. HAGENDFELDT, B. SALTIN and J. WAHREN	257-269
The effect of human pregnancy on the pulmonary transfer factor for carbon monoxide as measured by the single-breath method. J. A. MILNE, R. J. MILLS, J. R. T. COUTTS, M. C. MACNAUGHTON, F. MORAN and A. I. PACK	271-276
Total protein synthesis in elderly people: a comparison of results with [¹⁵ N]glycine and [¹⁴ C]leucine. M. H. N. GOLDEN and J. C. WATERLOW	277-288
Intracellular potassium and steroidogenesis of isolated rat adrenal cells: effect of potassium ions and angiotensin II on purified zona glomerulosa cells. C. M. MACKIE, E. R. SIMPSON, M. S. R. MEE, S. A. S. TAIT and J. F. TAIT	289-296

SHORT COMMUNICATION

- Two methods for determination of renin secretion rates in rats. A. IAINA, I. NAKASH, E. REISIN, B. SPIVACK and H. E. ELIAHOU 297-300

CORRESPONDENCE SECTION

- Hypertension and vascular lesions. J. J. BROWN, R. FRASER, A. F. LEVER and J. I. S. ROBERTSON 301
The mode of action of acupuncture in bronchial asthma. C. D. MARSDEN 302

MEDICAL RESEARCH SOCIETY (Meeting on 8 and 9 July 1977)

- Communications 1P-18P

VOL. 53, No. 4

OCTOBER 1977

- Editorial Review: Dopaminergic pathways and their pathophysiological significance. J. L. REID 303-306
Inter-relationships of carbonate, phosphate, monohydrogen phosphate, calcium, magnesium and sodium in uraemic bone: comparison of dialysed and non-dialysed patients. E. D. PELLEGRINO, R. M. BILTZ and J. M. LETTERI 307-316
The effect of certain chelating compounds on the urinary excretion of copper by the rat: observations on their clinical significance. KATHLEEN GIBBS and J. M. WALSH 317-320
Sodium homeostasis in patients with autonomic failure. C. S. WILCOX, M. J. AMINOFF and J. D. H. SLATER 321-328
Circulating inhibitor of sodium-potassium-activated adenosine triphosphatase after expansion of extracellular fluid volume in rats. H. C. GONICK, H. J. KRAMER, W. PAUL and E. LU 329-334
Alterations in the activity of enzymes of haem biosynthesis in lead poisoning and acute hepatic porphyria. B. C. CAMPBELL, M. J. BRODIE, G. G. THOMPSON, P. A. MEREDITH, M. R. MOORE and A. GOLDBERG 335-340
Plasma catecholamines and the pressor response to Sar¹-Ala⁸-angiotensin II in man. B. P. MCGRATH, J. G. G. LEDINGHAM and C. R. BENEDICT 341-348
Leg blood flow and central circulation at various blood volumes: a peroperative study of nine patients with varicose veins. B. BRISMAR, R. CRONESTRAND, L. JORFELDT and A. JUHLIN-DANNFELT 349-354
Effects of phenylalanine analogues on renal tubular reabsorption of amino acids in the rat. C. W. I. OWENS 355-364
The treatment of acute intermittent porphyria with laevulose. M. J. BRODIE, M. R. MOORE, G. G. THOMPSON and A. GOLDBERG 365-371
Excretion of active metabolites of vitamin D in urine and bile of the adult rat. S.-E. LARSSON and R. LORENTZON 373-377
Mechanisms of the uricosuric effect of the diuretic tienilic acid (Ticrynafen) in man. K. LAU, R. M. STOTE, M. GOLDBERG and Z. S. AGUS 379-386
Effect of 30% oxygen on local matching of perfusion and ventilation in chronic airways obstruction. NOEMI M. EISNER, HAZEL A. JONES and J. M. B. HUGHES 387-395

SHORT COMMUNICATIONS

- Effect of α -methyl dopa on the pulmonary vascular changes induced by chronic hypoxia in rats. A. J. SUGGETT and J. HERGET 397-400
Effect of acute hypoxaemia on plasma arginine vasopressin in conscious man. P. H. BAYLIS, R. A. STOCKLEY and D. A. HEATH 401-404

Editorial Review: Lactic acidosis: some physiological and clinical considerations. R. D. COHEN and R. A. ILES	405-410
Regulation of gluconeogenesis and ketogenesis during rest and exercise in diabetic subjects and normal men. L. SESTOFT, J. TRAP-JENSEN, J. LYNGSØE, J. P. CLAUSEN, J. J. HOLST, S. L. NIELSEN, J. F. REHFELD and O. SCHAFFALITZKY DE MUCKADELL	411-418
Respiratory muscle fatigue: a cause of respiratory failure? P. T. MACKLEM and C. S. ROUSSOS	419-422
Detection of Na ⁺ and K ⁺ in the rat adrenal cortex with the electron microprobe. C. DECORZANT, A.M. RIONDEL, M.-J. PHILIPPE, J. BERTRAND and M. B. VALLOTTON	423-430
Control of renal tubular phosphate reabsorption by parathyroid hormone in man. D. A. WALKER, S. JOYCE DAVIES, K. SIDDLER and J. S. WOODHEAD	431-438
Vitamin D metabolism in adult rats at low and normal calcium intake and the effect of cadmium exposure. R. LORENTZON and S.-E. LARSSON	439-446
Decreased plasma renin activity and renin release in rats with phaeochromocytoma. J. C. S. FRAY and P. V. H. MAYER	447-452
The carriers of native vitamin B ₁₂ in normal human serum. C. A. HALL	453-457
Intracellular pH and bicarbonate concentration as determined in biopsy samples from the quadriceps muscle of man at rest. K. SAHLIN, A. ALVESTRAND, J. BERGSTRÖM and E. HULTMAN	459-466
Some aspects of sodium movement across porcine aortic walls <i>in vitro</i> . I. R. EDWARDS	467-471
Protein turnover, synthesis and breakdown before and after recovery from protein-energy malnutrition. M. H. N. GOLDEN, J. C. WATERLOW and D. PICOU	473-477
Arrested bone growth and mineral maturation in sub-totally nephrectomized rats. J. M. LETTERI, R. M. BILTZ, K. J. ELLIS, A. MARTINO, S. YASUMURA, D. BROOK, S. H. COHN and E. D. PELLEGRINO	479-484
Effects of analgesics and related compounds on renal metabolism in rats. J. D. TANGE, B. D. ROSS and J. G. G. LEDINGHAM	485-492
Urine electrolyte response to 18-hydroxy-11-deoxycorticosterone in normal man. M. G. NICHOLLS, R. FRASER, G. HAY, P. MASON and B. TORSNEY	493-498

SHORT COMMUNICATION

Collagen of Dupuytren's disease. A. J. BAILEY, T. J. SIMS, G. GABBIANI, S. BAZIN and M. LÉLOUS	499-502
--	---------

CORRESPONDENCE SECTION

Open-circuit method for measuring carbon dioxide tension in venous blood. N. L. JONES, G. F. HEIGENHAUSER, E. J. M. CAMPBELL, REIAH AL-DULYMI and R. HAINSWORTH	503-504
---	---------

Editorial Review: Application of analytical subcellular fractionation techniques and tissue enzymic analysis to the study of human pathology. T. J. PETERS	505-511
The effect of adrenaline-induced endogenous lipolysis upon the mechanical and metabolic performance of ischaemically perfused rat hearts. R. W. BROWNSEY and R. V. BRUNT	513-521
Excretion of salt and water by patients with sickle-cell anaemia: effect of a diuretic and solute diuresis. T. E. FORRESTER and G. A. O. ALLEYNE	523-527
Abnormalities in enzymes involved in catecholamine synthesis and catabolism in phaeochromocytoma. B. JARROTT and W. J. LOUIS	529-535
Anaemia, iron deficiency and exercise: extended studies in human subjects. R. W. CHARL-	

TON, D. DERMAN, B. SKIKNE, J. D. TORRANCE, S. R. LYNCH, M. H. SAYERS, S. ZWI, H. I. GOLDMAN, A. VAN AS, G. MARGO, J. T. SCHNEIDER and T. H. BOTHWELL	537-541
Changes in the proportions of plasma insulin, proinsulin and a higher-molecular-weight insulin during pre- and post-operative glucose-infusion tests. D. MANGNALL, A. E. B. GIDDINGS, H. H. LAFFERTY and R. G. CLARK	543-550
Subcellular localization of enterokinase in human duodenal mucosa. R. W. LOBLEY, RUTH FRANKS and R. HOLMES	551-562
Role of cyclic AMP in the natriuresis of extracellular fluid volume expansion in the dog. R. M. FRIEDLER, C. DESCOEUDRES, K. KUROKAWA, W.-J. KREUSSER and S. G. MASSRY	563-571
The renin-aldosterone system in exaggerated natriuresis of essential hypertension. E. B. PEDERSEN and H. J. KORNERUP	573-578
Increase in serum ionized calcium during exercise. S. PORS NIELSEN, T. FALCH CHRISTIAN- SEN, O. HARTLING and J. TRAP-JENSEN	579-586
Pulmonary blood volume in chronic bronchitis. B. RAFFESTIN, H. VALETTE, J. L. HEBERT, P. DUHAZE and A. LOCKHART	587-593