

CONTENTS

VOL. 56, No. 1

JANUARY 1979

Guidance for Authors	i-x
Editorial Review: Two of the newer 'gastrointestinal hormones'. T. SCRATCHERD	1-7
Metabolism of <i>p</i> -aminobenzoic acid in the perfused livers of chronically uraemic rats. M. B. HOWIE and E. BOURKE	9-14
Influx of two dipeptides, glycylsarcosine and L-glutamyl-L-glutamic acid, into hamster jejunum <i>in vitro</i> . D. M. MATTHEWS, R. H. GANDY, E. TAYLOR and D. BURSTON	15-23
Kinetics of mucosal influx of glycylsarcosine, glycine and leucine into hamster jejunum and ileum <i>in vitro</i> . H. P. SCHEDL, D. BURSTON, E. TAYLOR and D. M. MATTHEWS	25-31
Hepatic binding sites for angiotensin II in the rat. J. J. LAFONTAINE, M. P. NIVEZ and R. ARDAILLOU	33-40
Arterial wall renin and renal venous renin in the hypertensive rat. JOSEPHINE B. GARST, S. KOLETSKY, P. E. WISENBAUGH, MAGDALENA HADADY and D. MATTHEWS	41-46
Relaxation rate of constituent muscle-fibre types in human quadriceps. C. M. WILES, A. YOUNG, D. A. JONES and R. H. T. EDWARDS	47-52
Fluorescent lipid-peroxidation products in synovial fluid. J. LUNEC and T. L. DORMANDY	53-59
Erythrocyte δ -aminolaevulinic acid dehydratase activity and blood protoporphyrin concentrations as indices of lead exposure and altered haem biosynthesis. P. A. MEREDITH, M. R. MOORE and A. GOLDBERG	61-69
Low-density lipoprotein turnover studies in man. Evaluation of the integrated rate equations method, use of a whole-body radioactivity counter, and the problem of partial denaturation. G. D. CALVERT and H. M. JAMES	71-76
Time-dependent changes in prostaglandin excretion in response to frusemide in man. B. SCHERER and P. C. WEBER	77-81
Binding of human serum ferritin to concanavalin A. M. WORWOOD, S. J. CRAGG, M. WAGSTAFF and A. JACOBS	83-87
Niacin depletion in Parkinsonian patients treated with L-dopa, benserazide and carbidopa. D. A. BENDER, C. J. EARL and A. J. LEES	89-93

SHORT COMMUNICATIONS

The influence of ammonia and octanoic acid on liver regeneration in the rat. W. R. ELLIS, P. K. CHU and I. M. MURRAY-LYON	95-97
Presence of apolipoprotein-CII in commercially available albumin fractions. ANN-MARGRET ÖSTLUND-LINDQVIST and J. BOBERG	99-100

VOL. 56, No. 2

FEBRUARY 1979

Editorial Review: The measurement of intrarenal flow distribution in man. K. E. BRITTON	101-104
Inactive renin in rabbit plasma: effect of haemorrhage. H. K. RICHARDS, S. A. GRACE, A. R. NOBLE and K. A. MUNDAY	105-108
Hypertension with mineralocorticoid administration to the Long-Evans rat. O. B. HOLLAND, C. GOMEZ-SANCHEZ and T. ZIEGLER	109-113
Evidence for activation of circulating inactive renin by the human kidney. F. H. M. DERKX, G. J. WENTING, A. J. MAN IN 'T VELD, R. P. VERHOEVEN and M. A. D. H. SCHALEKAMP	115-120
Structural and functional alterations in the mucosa of self-filling intestinal blind loops in rats. H. MENGE, R. KÖHN, K.-H. DIETERMANN, H. LORENZ-MEYER, E. O. RIECKEN and J. W. L. ROBINSON	121-131

Glycerol-induced acute renal failure in Brattleboro rats with hypothalamic diabetes insipidus. A. KONRADS, K. G. HOFBAUER, K. BAUEREISS, J. MÖHRING and F. GROSS	133-138
Metabolism of infused L(+)-lactate during exercise. W. J. RYAN, J. R. SUTTON, C. J. TOEWS and N. L. JONES	139-146
Inhibition of mitochondrial electron transfer in rats by ethanethiol and methanethiol. T. VAHLKAMP, A. J. MEIJER, J. WILMS and R. A. F. CHAMULEAU	147-156
Myopathy in bone loss of ageing; Improvement by treatment with 1α -hydroxycholecalciferol and calcium. O. H. SØRENSEN, BI. LUND, B. SALTIN, BI. LUND, R. R. ANDERSEN, L. HJORTH, F. MELSEN and L. MOSEKILDE	157-161
The role of the baroreceptor reflex in the cardiovascular effects of propranolol in the conscious spontaneously hypertensive rat. H. A. J. STRUYKER-BOUDIER, J. F. SMITS and H. VAN ESSEN	163-167
Renal sodium retention in cirrhosis: relation to aldosterone and nephron site. S. P. WILKINSON, T. P. JOWETT, J. D. H. SLATER, V. ARROYO, H. MOODIE and R. WILLIAMS	169-177
Subcellular distribution of radio-labelled iron during intestinal absorption in guinea-pig enterocytes with special reference to the mitochondrial localization of the iron. J. M. P. HOPKINS and T. J. PETERS	179-188
Pregnancy-associated disease of the renal microcirculation. A. A. AL-KHADER, C. STEWART and G. M. ABER	189-192

SHORT COMMUNICATION

Carbohydrate-containing materials in urine from normal and diabetic subjects. J. R. CLAMP, M. HARTOG and J. H. SHELLEY	193-196
---	---------

VOL. 56, No. 3

MARCH 1979

Editorial Review: Rapid hormonal control of hepatic catabolism in health and disease. D. A. HEMS	197-202
Regulation of glomerular capillary pressure and filtration rate in young Kyoto hypertensive rats. S. AZAR, M. A. JOHNSON, J. SCHEINMAN, L. BRUNO and L. TOBIAN	203-209
Diuretics, hepatic and thoracic duct lymph flows in the dog. J. J. SZWED and D. R. MAXWELL	211-214
The pattern of breathing in patients with chronic airflow obstruction. C. S. GARRARD and D. J. LANE	215-221
Erythropoiesis, iron stores and tissue iron exchange in man. I. CAVILL, C. RICKETTS and A. JACOBS	223-226
Kallikrein-kinin system in one- and two-kidney Goldblatt hypertensive rats. R. ALBERTINI, R. ROSAS, H. R. CROXATTO and J. ROBLERO	227-233
The effect of different pharmacological agents on respiratory reflexes in normal and asthmatic subjects. N. C. THOMSON	235-242
Effects of 'elemental' diets on absorptive and enzymic activities and on 5-fluorouracil toxicity in rat small intestine. M. L. G. GARDNER and R. C. HEADING	243-249
Inhibition of rat liver mitochondrial 3-hydroxy-3-methylglutaryl-CoA lyase by succinyl-CoA. R. DEANA, F. RIGONI and L. GALZIGNA	251-254
Plasma renin activity in diabetes mellitus. A. C. BURDEN and H. THURSTON	255-259
Plasma and urine dopamine in man given sodium chloride in the diet. N. S. OATES, S. G. BALL, C. M. PERKINS and M. R. LEE	261-264
Sites of clearance of leucocyte pyrogen in the rabbit. YVONNE TOWNSEND and W. I. CRANSTON	265-268
The relationship between concentrations of glycosylated haemoglobins and of serum high- density-lipoprotein cholesterol in diabetic patients. J. S. YUDKIN, B. J. BOUCHER, M. W. FRANCE, S. G. WELCH and C. SWINDLEHURST	269-272
Synthetic detergents in bile-salt-deficient steatorrhoea. R. F. G. J. KING, P. D. HOWDLE, J. KELLEHER and M. S. LOSOWSKY	273-281

- Correlation of ethanol concentrations in blood and saliva. K. E. L. MCCOLL, B. WHITING, M. R. MOORE and A. GOLDBERG 283-286
- Heart-rate response to sustained hand grip: comparison of the effects of cardiac autonomic blockade and diabetic autonomic neuropathy. L. HUME, D. J. EWING, I. W. CAMPBELL, S. R. REUBEN and B. F. CLARKE 287-291

MEDICAL RESEARCH SOCIETY (Meeting on 8 and 9 December 1978)

- Communications 1P-31P

VOL. 56, No. 4

APRIL 1979

- Editorial Review: Arterial wall or plasma renin in hypertension? J. D. SWALES 293-298
- Plasma level and renal clearance of oxalate in normal subjects and in patients with primary hyperoxaluria or chronic renal failure or both. A. R. CONSTABLE, A. M. JOEKES, G. P. KASIDAS, P. O'REGAN and G. A. ROSE 299-304
- Effect of the exercise of seven consecutive days' hill-walking on fluid homeostasis. E. S. WILLIAMS, M. P. WARD, J. S. MILLEDGE, W. R. WITHEY, M. W. J. OLDER and M. L. FORSLING 305-316
- Loss of metacarpal and iliac bone in chronic renal failure: influence of haemodialysis, parathyroid activity, type of renal disease, physical activity and heparin consumption. R. G. HENDERSON, R. G. G. RUSSELL, M. J. EARNSHAW, J. G. G. LEDINGHAM, D. O. OLIVER and C. G. WOODS 317-324
- Effect of sodium depletion on the steroidogenic and pressor actions of angiotensin in the rat. W. B. CAMPBELL, J. M. SCHMITZ and H. D. ITS KOVITZ 325-333
- Central and peripheral circulation in relation to muscle-fibre composition in normo- and hypertensive man. A. JUHLIN-DANNFELT, M. FRISK-HOLMBERG, J. KARLSSON and P. TESCH 335-340
- Age-dependent changes in the rate of myofibrillar protein degradation in humans as assessed by 3-methylhistidine and creatinine excretion. F. M. TOMAS, F. J. BALLARD and L. M. POPE 341-346
- Increased turnover of muscle contractile proteins in Duchenne muscular dystrophy as assessed by 3-methylhistidine and creatinine excretion. F. J. BALLARD, F. M. TOMAS and L. M. STERN 347-352
- Ammoniogenesis by the isolated perfused rat kidney. The critical role of urinary acidification. R. L. TANNEN and B. D. ROSS 353-364
- Action of angiotensin I converting enzyme inhibitor on the control of renal function in the cat. E. J. JOHNS 365-371

SHORT COMMUNICATIONS

- Acyl-coenzyme A-cholesterol acyltransferase activity in human liver. S. BALASUBRAMANIAM, K. A. MITROPOULOS, N. B. MYANT, M. MANCINI and A. POSTIGLIONE 373-375
- Changes in cholesterol metabolism with dietary cholesterol in children with familial hypercholesterolaemia. GILLIAN M. MARTIN and P. NESTEL 377-380
- Prolactin in primary aldosteronism. R. DÜSING, J. R. GILL, JR and F. C. BARTTER 381-383
- Effect of acid-base changes on the intracellular sodium, potassium and water content of human leucocytes *in vitro*. R. B. JONES, VALERIE E. JOHNSON, J. PATRICK and P. J. HILTON 385-388

VOL. 56, No. 5

MAY 1979

- Editorial Review: Control of aldosterone secretion. R. FRASER, J. J. BROWN, A. F. LEVER, P. A. MASON and J. I. S. ROBERTSON 389-399

Studies on mineralocorticoid 'escape' in cirrhosis. S. P. WILKINSON, I. K. SMITH, HELEN MOODIE, LUCILLA POSTON and R. WILLIAMS	401-406
Absorption of inorganic phosphate in the human small intestine. J. WALTON and T. K. GRAY	407-412
Arterial distensibility in normal and hypertensive man. B. GRIBBIN, T. G. PICKERING and P. SLEIGHT	413-417
Radioimmunoassay measurement of urinary ligandin excretion in nephrotoxin-treated rats. N. M. BASS, R. E. KIRSCH, S. A. TUFF, J. A. CAMPBELL and J. S. SAUNDERS	419-426
Effect of aging on free amino acids and electrolytes in leg skeletal muscle. P. MÖLLER, J. BERGSTRÖM, S. ERIKSSON, P. FÜRST and K. HELLSTRÖM	427-432
Comparison of two rebreathing methods for the determination of mixed venous partial pressure of carbon dioxide during exercise. G. J. F. HEIGENHAUSER and N. L. JONES	433-437
Cardiac effects of angiotensin antagonists in normotensive rats. S. SEN, R. C. TARAZI and F. M. BUMPUS	439-443
Influence of angiotensin II, ouabain and hydrostatic pressure on inulin and electrolyte concentration of fluid perfusing pig carotid arteries <i>in vivo</i> . J. K. HEALY, A. J. ELLIOTT and I. J. OWECZKIN	445-453
The rate of change of mouth occlusion pressure during exercise. N. SIAFAKAS, A. J. R. MORRIS and F. J. PRIME	455-461
Long-term versus short-term effects of hydrochlorothiazide on renal haemodynamics in essential hypertension. P. VAN BRUMMELEN, M. WOERLEE and M. A. D. H. SCHALEKAMP	463-469
Sodium distribution in mesenteric arterial wall of rats with hypertension induced by drinking saline. JANE A. MADDEN, G. A. SMITH and J. G. LLAURADO	471-478
Sequential enzyme and subcellular fractionation studies on jejunal biopsy specimens from patients with post-infective tropical malabsorption. T. J. PETERS, P. E. JONES, G. WELLS and G. G. COOK	479-486
Kinetics of uptake of an amino acid and a dipeptide into hamster jejunum and ileum: the effect of semistarvation and starvation. H. P. SCHEDL, D. BURSTON, ELIZABETH TAYLOR and D. M. MATTHEWS	487-492
Catabolic effects of adrenaline and angiotensin II in the perfused liver of normal and genetically obese (<i>ob/ob</i>) mice. G. Y. MA, C. D. GOVE, M. A. CAWTHORNE and D. A. HEMS	493-499

SHORT COMMUNICATIONS

Effect of phenobarbitone on plasma apolipoprotein B and plasma high-density-lipoprotein cholesterol in normal subjects. P. N. DURRINGTON	501-504
A defect in zinc uptake by jejunal biopsies in acrodermatitis enteropathica. D. J. ATHERTON, D. P. R. MULLER, P. J. AGGETT and J. T. HARRIES	505-507
Faecal methylamine in normal and uraemic subjects. C. W. I. OWENS and W. PADOVAN	509-512

CORRESPONDENCE SECTION

Fitting and interpreting dynamic tracer data. M. E. WISE, J. REEVE, N. VEALL and R. WOOTTON	513-515
---	---------

VOL. 56, No. 6

JUNE 1979

Editorial Review: Water balance and hyponatraemia. D. B. MORGAN and T. H. THOMAS	517-522
Analysis of ⁴⁷ Ca kinetics in normal subjects by means of a compartmental model with non-exchangeable plasma calcium fraction. B. L. WAJCHENBERG, P. R. LEME, M. N. L. FERREIRA, J. MODESTO FILHO, R. R. PIERONI and M. BERMAN	523-532
Carbohydrate moieties of glycoproteins in human hepatic and gall-bladder bile, gall-bladder mucosa and gall stones. S. P. LEE, T. H. LIM and A. J. SCOTT	533-538
L-Asparaginyl-tRNA synthetase and L-asparagine synthetase activities of L-asparaginase-sensitive and -resistant forms of the mouse Gardner lymphoma 6C3HED. M. R. DAVIES, LUCY, P. LAMBERT and R. D. MARSHALL	539-545

Effects of aprotinin on renal function and urinary prostaglandin excretion in conscious rats after acute salt loading. H. J. KRAMER, T. MOCH, L. VON SICHERER and R. DÜSING	547-553
The mechanism of amphotericin-induced distal acidification defect in rats. NARESH K. JULKA, JOSE A. L. ARRUDA and N. A. KURTZMAN	555-562
The relationships between plasma substrates and hormones and the severity of injury in 277 recently injured patients. H. B. STONER, K. N. FRAYN, R. N. BARTON, C. J. THRELFALL and R. A. LITTLE	563-573
Lecithin-cholesterol acyltransferase and the lipoprotein abnormalities of parenchymal liver disease. R. C. DAY, D. S. HARRY, J. S. OWEN, A. Y. FOO and N. MCINTYRE	575-583
Effects of an orally active converting-enzyme inhibitor, SQ 14225, on pressor responses to angiotensin administered into the brain ventricles of spontaneously hypertensive rats. J. F. E. MANN, W. RASCHER, R. DIETZ, A. SCHÖMIG and D. GANTEN	585-589
Post- and pre-natal assessment of α -L-iduronidase deficiency with a radiolabelled natural substrate. J. J. HOPWOOD, VIVIENNE MULLER and A. C. POLLARD	591-599
Accidental hypothermia and rewarming in dogs. C. D. AULD, I. M. LIGHT and J. N. NORMAN	601-606
Brain angiotensin II binding and central [Sar ¹ ,Ala ⁸]angiotensin responses in normal rats and the New Zealand strain of genetically hypertensive rats. NANCY E. SIRETT, S. N. THORNTON and J. I. HUBBARD	607-611