

26C

PUBLISHED BY  
THE MEDICAL RESEARCH SOCIETY AND THE BIOCHEMICAL SOCIETY

Printed in Great Britain by Spottiswoode Ballantyne Ltd.  
Colchester and London

## Volume 55

### AUTHOR INDEX

- ALAM, A.N., POSTON, L., WILKINSON, S.P., GOLINDANO, C.G. & WILLIAMS, R. A study *in vitro* of the sodium pump in fulminant hepatic failure 355
- ALLISON, A.C., see Segal, A.W. *et al.*
- ALLSOP, J., see Neerunjun, J.S. *et al.*
- AMERY, A., see Reybrouck, T. *et al.*
- ANDERSEN, E.D., see Hesse, B. *et al.*
- ARONOFF, A., see Goresky, C.A. *et al.*
- AROSIO, E., see Lechi, A. *et al.*
- ASATOOR, A.M., BENDING, M.R. & MILNE, M.D. Peptide excretion in experimental Fanconi syndrome in the rat 205
- AZAR, M., see Weller, D. *et al.*
- AZAR, S., see Weller, D. *et al.*
- BAILEY, A.J., see Lovell, C.R. *et al.*
- BALL, S.G., OATES, N.S. & LEE, M.R. Urinary dopamine in man and rat: effects of inorganic salts on dopamine excretion 167
- BALMENT, R.J., see Henderson, I.W. *et al.*
- BANKS, J., BOOTH, F.V.McL., MACKay, E.H., RAJAGOPALAN, B. & LEE, G. DE J. The physical properties of human pulmonary arteries and veins 477
- BARON, P.G., ILES, R.A. & COHEN, R.D. Effect of varying  $PCO_2$  on intracellular pH and lactate consumption in the isolated perfused rat liver 175
- BARON, P.G., see also Iles, R.A. *et al.*
- BARRAGRY, J.M., FRANCE, M.W., CORLESS, D., GUPTA, S.P., SWITALA, S., BOUCHER, B.J. & COHEN, R.D. Intestinal cholecalciferol absorption in the elderly and in younger adults 213
- BARRETT, J.D., EGGENA, P. & SAMBHI, M.P. Partial characterization of aortic renin in the spontaneously hypertensive rat and its interrelationship with plasma renin, blood pressure and sodium balance 261
- BATEMAN, J.R.M., PAVIA, D. & CLARKE, S.W. The retention of lung secretions during the night in normal subjects 523
- BATT, R.M. & PETERS, T.J. Analytical subcellular fractionation studies on enterocytes from the jejunum and ileum of the rat and some properties of brush-border alkaline phosphatase 157
- BATT, R.M., WELLS, G. & PETERS, T.J. The effects of prednisolone on the rat enterocyte at a subcellular level 435
- BAUEREISS, K., see Hofbauer, K.G. *et al.*
- BENDING, M.R., see Asatoor, A.M. *et al.*
- BENEDICT, C.R., see McGrath, B.P. *et al.*
- BERNARDI, M., see Wilkinson, S.P. *et al.*
- BHOOLA, K.D., MATTHEWS, R.W. & ROBERTS, F. A survey of salivary kallikrein and amylase in a population of schoolgirls, throughout the menstrual cycle 561
- BILLIET, L., see Reybrouck, T. *et al.*
- BLEKKENHORST, G.H., EALES, L. & PIMSTONE, N.R. The nature of hepatic cytochrome *P*-450 induced in hexachlorobenzene-fed rats 461
- BOMZON, L., WILTON, P.B. & McCALDEN, T.A. Impaired skeletal muscle vasomotor response to infused noradrenaline in baboons with obstructive jaundice 109
- BOOTH, F.V.McL., see Banks, J. *et al.*
- BOUCHER, B.J., see Barragry, J.M. *et al.*
- BRADLEY-MOORE, P.R., see Jones, E.A. *et al.*

- BRAVO, E.L., see Cody, R.J., Jr *et al.*  
BRITTON, K.E., see Wilkinson, S.P. *et al.*  
BROWN, N.G.J., see Wilkinson, S.P. *et al.*
- CAMPBELL, D.G., see Heyma, P. *et al.*  
ČAPEK, K., see Kuneš, J. *et al.*  
CARASSAVAS, D., see Goresky, C.A. *et al.*  
CARMICHAEL, H.A., see Nelson, L.M. *et al.*  
CARROLL, B.J., see Welman, E. *et al.*  
CHALMERS, R.A., see Elkeles, R.S. *et al.*  
CHATELAIN, R.E. & FERRARIO, C.M. Biphasic changes in thymus structure during evolving renal hypertension 149  
CLARK, J., see Segal, A.W. *et al.*  
CLARK, W.F., see Werb, R. *et al.*  
CLARKE, M., see Wilkinson, S.P. *et al.*  
CLARKE, S.W., see Bateman, J.R.M. *et al.*  
CLAUSEN, J.P., see Lyngsøe, J. *et al.*  
COBBE, S.M., see Poole-Wilson, P.A. *et al.*  
COCHRAN, M., see Taylor, C.M. *et al.*  
CODY, R.J., Jr, TARAZI, R.C., BRAVO, E.L. & FOUAD, F.M. Haemodynamics of orally-active converting enzyme inhibitor (SQ 14225) in hypertensive patients 453  
COHEN, R.D., see Baron, P.G. *et al.*; see also Barragry, J.M. *et al.*, Iles, R.A. *et al.*  
CORLESS, D., see Barragry, J.M. *et al.*  
CORGNATI, A., see Lechi, A. *et al.*  
CORTELL, S., see Donohoe, J.F. *et al.*  
COTTER, T.G. & ROBINSON, G.B. Effects of concentration-polarization on the filtration of proteins through filters constructed from isolated renal basement membrane 113  
COVI, G., see Lechi, A. *et al.*  
COX, D.W., see Jeppsson, J.-O. *et al.*  
CRAWLEY, J.C.W., see Reeve, J. *et al.*  
CRYER, A. & JONES, H.M. Parallel changes between lipoprotein lipase activating capacity and lipid concentrations in the serum of rats and ferrets during development and dietary manipulation 121
- DAWBORN, J.K., see Martin, T.J. *et al.*  
DE FERRARI, G., see Tizianello, A. *et al.*  
DE JONG, P.E., DE JONG-VAN DEN BERG, L.T.W. & STATIUS VAN EPS, L.W. The tubular reabsorption of phosphate in sickle-cell nephropathy 429  
DE JONG-VAN DEN BERG, L.T.W., see De Jong, P.E. *et al.*  
DEAN, B.M., PERRETT, D., SIMMONDS, H.A., SAHOTA, A. & VAN ACKER, K.J. Adenine and adenosine metabolism in intact erythrocytes deficient in adenosine monophosphate-pyrophosphate phosphoribosyltransferase: a study of two families 407  
DONOHOE, J.F., LEFAVOUR, G.S., CORTELL, S. & GENNARI, F.J. Identification of a delivery-related influence on proximal tubular reabsorption during expansion with hyperoncotic albumin in the rat 369  
DUBOWITZ, V., see Neerunjun, J.S. *et al.*  
DUVIVIER, C., see Prowse, K. *et al.*
- EALLES, L., see Blekkenhorst, G.H. *et al.*  
EGGENA, P., see Barrett, J.D. *et al.*  
ELKELES, R.S., CHALMERS, R.A. & HAMBLEY, J. Evidence for an hepatic anti-ketogenic effect of insulin in man 499  
EWING, D.J. Editorial Review: Cardiovascular reflexes and autonomic neuropathy 321

- FAGARD, R., see Reybrouck, T. *et al.*
- FARIS, I.B., see Ludbrook, J. *et al.*
- FERRARIO, C.M., see Chatelain, R.E. & Ferrario, C.M.
- FOUAD, F.M., see Cody, R.J., Jr *et al.*
- FOX, K.M., see Welman, E. *et al.*
- FRANCE, M.W., see Barragry, J.M. *et al.*
- FRY, C.H., see Poole-Wilson, P.A. *et al.*
- FUNAKAWA, S., HIGASHIO, T. & YAMAMOTO, K. Renin release from renin granules in the dog 11
- GARIBOTTO, G., see Tizianello, A. *et al.*
- GENNARI, F.J., see Donohoe, J.F. *et al.*
- GIBSON, R.R., see Shulkes, A.A. *et al.*
- GOLDBERG, A.D., see Reeve, J. *et al.*
- GOLINDANO, C.G., see Alam, A.N. *et al.*
- GORDON, E.R., see Goresky, C.A. *et al.*
- GORESKEY, C.A., GORDON, E.R., SHAFFER, E.A., PARÉ, P., CARASSAVAS, D. & ARONOFF, A. Definition of conjugation dysfunction in Gilbert's syndrome: studies of the handling of bilirubin loads and of the pattern of bilirubin conjugates secreted in bile 63
- GROSS, F., see Hofbauer, K.G. *et al.*
- GUPTA, S.P., see Barragry, J.M. *et al.*
- GURRERI, G., see Tizianello, A. *et al.*
- GUZ, A. & MCHAFFIE, D. Editorial Review: The use of digitalis glycosides in sinus rhythm 417
- HAGEN, T.C., see Riley, A.L. *et al.*
- HALL, R., see Scanlon, M.F. *et al.*
- HAMBLEY, J., see Elkeles, R.S. *et al.*
- HARRIS, E.A., SEELYE, E.R. & WHITLOCK, R.M.L. Revised standards for normal resting dead-space volume and venous admixture in men and women 125
- HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. Vasopressin effects on plasma renin activity in male and female rats 301
- HESSE, B., ANDERSEN, E.D. & RING-LARSEN, H. Hepatic elimination of renin in man 377
- HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. The formation of tri-iodothyronine and reverse tri-iodothyronine from thyroxine in isolated rat renal tubules 567
- HIGASHIO, T. see Funakawa, S. *et al.*
- HILEY, C.R. & YATES, M.S. The distribution of cardiac output in the anaesthetized spontaneously hypertensive rat 317
- HOBSON, J.D., see Moulds, R.F.W. *et al.*
- HOFBAUER, K.G., BAUEREISS, K., KONRADS, K. & GROSS, F. Renal vasoconstriction in glycerol-induced acute renal failure. Studies in the isolated perfused rat kidney 249
- HOLST, J.J., see Lyngsøe, J. *et al.*
- HORN, J. Excretion of urea by the foetal guinea pig 329
- HUDLICKÁ, O. & WRIGHT, A. The effect of vibration on blood flow in skeletal muscle in the rabbit 471
- HUNT, N.H., see Martin, T.J. *et al.*
- IANNOS, J., see Ludbrook, J. *et al.*
- ILES, R.A., BARON, P.G. & COHEN, R.D. Mechanism of the effect of varying  $PCO_2$  on gluconeogenesis from lactate in the perfused rat liver 183
- ILES, R.A., see also Baron, P.G. *et al.*
- ILIC, V., see Royle, G. *et al.*
- ISAACSON, L.C., see Querido, D. & Isaacson, L.C.
- JAMIESON, G.G., see Ludbrook, J. *et al.*
- JAMISON, J.P., see Wallace, W.F.M. & Jamison, J.P.
- JAUERNIG, R.A., see Moulds, R.F.W. *et al.*

- JAYSON, M.I.V., see Lovell, C.R. *et al.*
- JELÍNEK, J., see Kuneš, J. *et al.*
- JENKINS, W.J., see Peters, T.J., *et al.*
- JENNER, R., see Wilkinson, S.P. *et al.*
- JEPPSSON, J.-O., LAURELL, C.-B., NOSSLIN, B. & COX, D.W. Catabolic rate of  $\alpha_1$ -antitrypsin of Pi types A, and M<sub>Malton</sub> and of asialylated M-protein in man 103
- JEŽEK, V., see Schrijen, F. & Ježek, V.
- JOHNSON, M.A., see Weller, D. *et al.*
- JONES, E.A., VERGALLA, J., STEER, C.J., BRADLEY-MOORE, P.R. & VIERLING, J.M. Metabolism of intact and desialylated  $\alpha_1$ -antitrypsin 139
- JONES, E.O.P., see Werb, R. *et al.*
- JONES, H.M., see Cryer, A. & Jones, H.M.
- JONES, P.E., see Peters, T.J. *et al.*
- KANIS, J.A., see Taylor, C.M. *et al.*
- KENNARD, C., see Reeve, J. *et al.*
- KENNY, D., see Reeve, J. *et al.*
- KETTLEWELL, M.G.W., see Royle, G. *et al.*
- KONRADS, K., see Hofbauer, K.G. *et al.*
- KUNĚS, J., ČAPEK, K., STEJSKAL, J. & JELÍNEK, J. Age-dependent difference of kidney response to temporary ischaemia in the rat 365
- LAI, C.L., see Lam, S.K. & Lai, C.L.
- LAM, S.K. & LAI, C.L. Gastric ulcers with and without associated duodenal ulcer have different pathophysiology 97
- LARKINS, R.G., see Heyma, P. *et al.*
- LARSSON, S.-E., see Lorentzon, R. & Larsson, S.-E.
- LAURELL, C.-B., see Jeppsson, J.-O. *et al.*
- LECHI, A., COVI, G., LECHI, C., CORGNATI, A., AROSIO, E., ZATTI, M. & SCURIO, L.A. Urinary kallikrein excretion and plasma renin activity in patients with essential hypertension and primary aldosteronism 51
- LECHI, C., see Lechi, A. *et al.*
- LEDINGHAM, J.G.G., see McGrath, B.P. *et al.*
- LEE, F.D., see Nelson, L.M. *et al.*
- LEE, G. DE J., see Banks, J. *et al.*
- LEE, M.R., see Ball, S.G. *et al.*
- LEFAVOUR, G.S., see Donohoe, J.F. *et al.*
- LINDSAY, R.M., see Werb, R. *et al.*
- LINTON, A.L., see Werb, R. *et al.*
- LOOMES, R.S., see Martin, T.J. *et al.*
- LORENTZON, R. & LARSSON, S.-E. Intestinal absorption and tissue retention of cadmium and calcium in normal adult rats and rats given an active metabolite of vitamin D (1,25-dihydroxycholecalciferol) 195
- LOVELL, C.R., NICHOLLS, A.C., JAYSON, M.I.V. & BAILEY, A.J. Changes in the collagen of synovial membrane in rheumatoid arthritis and effect of D-penicillamine 31
- LUDBROOK, J., FARIS, I.B., IANNOS, J., JAMIESON, G.G. & RUSSELL, W.J. Lack of effect of isometric hand-grip exercise on the responses of the carotid sinus baroreceptor reflex in man 189
- LYNGSØE, J., CLAUSEN, J.P., TRAP-JENSEN, J., SESTOFT, L., SCHAFFALITZKY DE MUCKADELL, O., HOLST, J.J., NIELSEN, S.L. & REHFELD, J.F. Exchange of metabolites in the leg of exercising juvenile diabetic subjects 73
- MACKAY, E.H., see Banks, J. *et al.*
- MACPHERSON, J.N., see Tohill, P. & Macpherson, J.N.

- MARTIN, T.J., NAHORSKI, S.R., HUNT, N.H., DAWBORN, J.K., LOOMES, R.S. & UNDERWOOD, J.C.E. Characterization of  $\beta$ -adrenergic receptor linked to adenylate cyclase in a human cancer cell line (COLO 16) 23
- MATTHEWS, R.W., see Bhoola, K.D. *et al.*
- MAWER, E.B., see Taylor, C.M. *et al.*
- MCCALDEN, T.A., see Bomzon, L. *et al.*
- MCGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. Catecholamines in peripheral venous plasma in patients on chronic haemodialysis 89
- MCHAFFIE, D., see Guz, A. & McHaffie, D.
- MCSORLEY, P., see Mohamed, F. *et al.*
- MILNE, M.D., see Asatoor, A.M. *et al.*
- MOHAMED, F., MCSORLEY, P. & WARREN, D.J. A comparison of methods for measurement of rectal potential difference in man: effects of rectal infusion of amiloride 231
- MOSS, D.W., see Selden, C. *et al.*
- MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. Effects of the  $\beta$ -receptor antagonists propranolol, oxprenolol and labetalol on human vascular smooth-muscle contraction 235
- MOURANT, A.J. Determinants of high blood pressure in salt-deprived renal hypertensive rats: role of changes in plasma volume, extracellular fluid volume and plasma angiotensin II 81
- NAHORSKI, S.R., see Martin, T.J. *et al.*
- NEERUNJUN, J.S., ALLSOP, J. & DUBOWITZ, V. Hypoxanthine-guanine phosphoribosyltransferase activity in blood and skeletal muscles of normal and dystrophic mice 573
- NELSON, L.M., CARMICHAEL, H.A., RUSSELL, R.I. & LEE, F.D. Small-intestinal changes induced by an elemental diet (Vivonex) in normal rats 509
- NICHOLLS, A.C., see Lovell, C.R. *et al.*
- NIELSEN, S.L., see Lyngsøe, J. *et al.*
- NOSSLIN, B., see Jeppsson, J.-O. *et al.*
- OATES, N.S., see Ball, S.G. *et al.*
- OLIVER, J.A., see Henderson, I.W. *et al.*
- PARÉ, P., see Goresky, C.A. *et al.*
- PATRICK, J.M., TUTTY, J. & PEARSON, S.B. Propranolol and the ventilatory response to hypoxia and hypercapnia in normal man 491
- PAVIA, D., see Bateman, J.R.M. *et al.*
- PEARCE, P.C., see Wilkinson, S.P. *et al.*
- PEARSON, S.B., see Patrick, J.M. *et al.*
- PERRETT, D., see Dean, B.M. *et al.*
- PESLIN, R., see Prowse, K. *et al.*
- PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. Analytical subcellular fractionation of jejunal biopsy specimens: enzyme activities, organelle pathology and response to corticosteroids in patients with non-responsive coeliac disease 293
- PETERS, T.J., JONES, P.E. & WELLS, G. Analytical subcellular fractionation of jejunal biopsy specimens: enzyme activities, organelle pathology and response to gluten withdrawal in patients with coeliac disease 285
- PETERS, T.J., see also Batt, R.M. *et al.*, Batt, R.M. & Peters, T.J., Selden, C. *et al.*, Seymour, C.A. & Peters, T.J.
- PIMSTONE, N.R., see Blekkenhorst, G.H. *et al.*
- POHL, J.E.F. Blood alcohol and impairment of judgment 57
- POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. Acute effects of diuretics on potassium exchange, mechanical function and the action potential in rabbit myocardium 555
- POSTON, L., see Alam, A.N. *et al.*; see also Wilkinson, S.P. *et al.*
- PROWSE, K., DUVIVIER, C., PESLIN, R. & SADOUL, P. The respiratory response to inhaled carbon dioxide in man after 3 hours exposure to 3% carbon dioxide 309

- QUERIDO, D. & ISAACSON, L.C. Lack of effect of blood-volume expansion on short-circuit current across an isolated toad skin incorporated in the circulation of the rat 15
- RAJAGOPALAN, B., see Banks, J. *et al.*
- REES SMITH, B., see Scanlon, M.F. *et al.*
- REEVE, J., CRAWLEY, J.C.W., GOLDBERG, A.D., KENNARD, C., KENNY, D. & SMITH, I.K. Abnormalities of renal transport of sodium *o*-[<sup>131</sup>I]iodohippurate (Hippuran) in essential hypertension 241
- REEVE, J., VEALL, N. & WOOTTON, R. Editorial Review: Problems in the analysis of dynamic tracer studies 225
- REHFELD, J.F., see Lyngsøe, J. *et al.*
- REYBROUCK, T., AMERY, A., BILLIET, L., FAGARD, R. & STIJS, H. Comparison of cardiac output determined by a carbon dioxide-rebreathing and direct Fick method at rest and during exercise 445
- RILEY, A.L., HAGEN, T.C. & STEFANAİK, J.E. Effect of prolactin on glomerular filtration rate 335
- RING-LARSEN, H., see Hesse, B. *et al.*
- ROBERTS, F., see Bhoola, K.D. *et al.*
- ROBINSON, G.B., see Cotter, T.G. & Robinson, G.B.
- ROSS, B.D. Editorial Review: The isolated perfused rat kidney 513
- ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. Galactose and hepatic metabolism in malnutrition and sepsis in man 199
- RUSSELL, R.G.G., see Taylor, C.M. *et al.*
- RUSSELL, R.I., see Nelson, L.M. *et al.*
- RUSSELL, W.J., see Ludbrook, J. *et al.*
- SADOUL, P., see Prowse, K. *et al.*
- SAHOTA, A., see Dean, B.M. *et al.*
- SAMBHI, M.P., see Barrett, J.D. *et al.*
- SCANLON, M.F., REES SMITH, B. & HALL, R. Editorial Review: Thyroid-stimulating hormone: Neuro-regulation and clinical applications (Part 1) 1
- SCANLON, M.F., REES SMITH, B. & HALL, R. Editorial Review: Thyroid-stimulating hormone: Neuroregulation and clinical applications (Part 2) 129
- SCHAFFALITZKY DE MUCKADELL, O., see Lyngsøe, J. *et al.*
- SCHOLTENS, E., see Vonk, R.J. *et al.*
- SCHRIJEN, F. & JEŽEK, V. Haemodynamic variables during repeated exercise in chronic lung disease 485
- SCURO, L.A., see Lechi, *et al.*
- SEELYE, E.R., see Harris, E.A. *et al.*
- SEGAL, A.W., CLARK, J. & ALLISON, A.C. Tracing the fate of oxygen consumed during phagocytosis by human neutrophils with <sup>15</sup>O<sub>2</sub> 413
- SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. Analytical subcellular fractionation studies on different cell types isolated from normal rat liver 423
- SELWYN, A.P., see Welman, E. *et al.*
- SESTOFT, L., see Lyngsøe, J. *et al.*
- SEYMOUR, C.A. & PETERS, T.J. Changes in hepatic enzymes and organelles in alcoholic liver disease 383
- SHAFFER, E.A., see Goresky, C.A. *et al.*
- SHAW, J., see Moulds, R.F.W. *et al.*
- SHULKES, A.A., GIBSON, R.R. & SKINNER, S.L. The nature of inactive renin in human plasma and amniotic fluid 41
- SIMMONDS, H.A., see Dean, B.M. *et al.*
- SKINNER, S.L., see Shulkes, A.A. *et al.*
- SMITH, I.K., see Reeve, J. *et al.*
- SMITH, T., see Tomkins, A.M. *et al.*
- ST JOHN, J., see Taylor, C.M. *et al.*
- STATIUS VAN EPS, L.W., see De Jong, P.E. *et al.*
- STEER, C.J., see Jones, E.A. *et al.*
- STEFANAİK, J.E., see Riley, A.L. *et al.*

- STEJSKAL, J., see Kuneš, J. *et al.*
- STIJNS, H., see Reybrouck, T. *et al.*
- STOCKIGT, J.R., see Heyma, P. *et al.*
- STRUBBE, J.H., see Vonk, R.J. *et al.*
- SWITALA, S., see Barragry, J.M. *et al.*
- TARAZI, R.C., see Cody, R.J., Jr *et al.*
- TAYLOR, C.M., MAWER, E.B., WALLACE, J.E., ST JOHN, J., COCHRAN, M., RUSSELL, R.G.G. & KANIS, J.A.  
The absence of 24,25-dihydroxycholecalciferol in anephric patients 541
- TIZIANELLO, A., DE FERRARI, G., GARIBOTTO, G. & GURRERI, G. Effects of chronic renal insufficiency and metabolic acidosis on glutamine metabolism in man 391
- TOMKINS, A.M., SMITH, T. & WRIGHT, S.G. Assessment of early and delayed responses in vitamin B<sub>12</sub> absorption during antibiotic therapy in tropical malabsorption 533
- TOTHILL, P. & MACPHERSON, J.N. Post-mortem migration of bone-seeking radionuclides in the rat and rabbit and its effect on estimates of bone uptake 221
- TRAP-JENSEN, J., see Lyngsøe, J. *et al.*
- TURNBALL, D.I., see Werb, R. *et al.*
- TURNER, G.A. & WARDLE, E.N. Effect of unconjugated and conjugated phenol and uraemia on the synthesis of adenosine 3':5'-cyclic monophosphate in rat brain homogenates 271
- TUTTY, J., see Patrick, J.M. *et al.*
- UNDERWOOD, J.C.E., see Martin, T.J. *et al.*
- VAN ACKER, K.J., see Dean, B.M. *et al.*
- VAN DOORN, A.B.D., see Vonk, R.J. *et al.*
- VEALL, N., see Reeve, J. *et al.*
- VERGALLA, J., see Jones, E.A. *et al.*
- VIDELA, L.A. Effect of acute ethanol administration on liver oxidative capacity in rats 341
- VIERLING, J.M., see Jones, E.A. *et al.*
- VONK, R.J., SCHOLTENS, E. & STRUBBE, J.H. Biliary excretion of dibromosulphthalein in the freely moving unanaesthetized rat: circadian variation and effects of deprivation of food and pentobarbitol anaesthesia 399
- VONK, R.J., VAN DOORN, A.B.D. & STRUBBE, J.H. Bile secretion and bile composition in the freely moving, unanaesthetized rat with a permanent biliary drainage: influence of food intake on bile flow 253
- WALLACE, J.E., see Taylor, C.M. *et al.*
- WALLACE, W.F.M. & JAMISON, J.P. Effect of a surgically created side-to-side arteriovenous fistula on heat elimination from the human hand and forearm: evidence for a critical role of venous resistance in determining fistular flow 349
- WARDLE, E.N., see Turner, G.A. & Wardle, E.N.
- WARREN, D.J., see Mohamed, F. *et al.*
- WELLER, D., AZAR, S., JOHNSON, M.A. & AZAR, M. Albumin/globulin ratios, colloid osmotic pressures and Lowry protein microanalysis in rat plasma 529
- WELLS, G., see Batt, R.M. *et al.*; see also Peters, T.J. *et al.*
- WELMAN, E., FOX, K.M., SELWYN, A.P. & CARROLL, B.J. The effect of established  $\beta$ -adrenoreceptor-blocking therapy on the release of cytosolic and lysosomal enzymes after acute myocardial infarction in man 549
- WERB, R., CLARK, W.F., LINDSAY, R.M., JONES, E.O.P., TURNBALL, D.I. & LINTON, A.L. Protective effect of prostaglandin [PGE<sub>2</sub>] in glycerol-induced acute renal failure in rats 505
- WHITLOCK, R.M.L., see Harris, E.A. *et al.*
- WILKINSON, S.P., BERNARDI, M., PEARCE, P.C., BRITTON, K.E., BROWN, N.G.J., POSTON, L., CLARKE, M., JENNER, R. & WILLIAMS, R. Validation of 'transit renography' for the determination of the intrarenal distribution of plasma flow: comparison with the microsphere method in the anaesthetized rabbit and pig 277



WILKINSON, S.P., see also Alam, A.N. *et al.*

WILLIAMS, R., see Alam, A.N. *et al.*; see also Wilkinson, S.P. *et al.*

WILLIAMSON, D.H., see Royle, G. *et al.*

WILTON, P.B., see Bomzon, L. *et al.*

WOOTTON, A.M., see Selden, C. *et al.*

WOOTTON, R., see Reeve, J. *et al.*

WRIGHT, A., see Hudlická, O. & Wright, A.

WRIGHT, S.G., see Tomkins, A.M. *et al.*

YAMAMOTO, K., see Funakawa, S. *et al.*

YATES, M.S., see Hiley, C.R. & Yates, M.S.

ZATTI, M., see Lechi, A. *et al.*

## SUBJECT INDEX

- Acetoacetate, plasma, hepatic effect of insulin in man in decreasing ELKELES, R.S., CHALMERS, R.A. & HAMBLEY, J. 499-504
- $\beta$ -*N*-Acetylglucosaminidase, assay of, as indicator of lysosomal enzyme release after acute myocardial infarction in man WELMAN, E., FOX, K.M., SELWYN, A.P. & CARROLL, B.J. 549-553
- Acid, gastric, maximum output of, after stimulation with pentagastrin in patients with gastric and duodenal ulcers LAM, S.K. & LAI, C.L. 97-102
- Acid-base balance, effects of changes in, on excretion of dopamine in man and rat BALL, S.G., OATES, N.S. & LEE, M.R. 167-173
- Acidosis, metabolic, effects of, on glutamine metabolism in man TIZIANELLO, A., DE FERRARI, G., GARIBOTTO, G. & GURRERI, G. 391-397
- Action potential, acute effects of diuretics on, in rabbit myocardium POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Adenine, metabolism of, in intact erythrocytes deficient in adenosine monophosphate-pyrophosphate phosphoribosyltransferase DEAN, B.M., PERRETT, D., SIMMONDS, H.A., SAHOTA, A. & VAN ACKER, K.J. 407-412
- Adenosine 3':5'-cyclic monophosphate, effect of unconjugated and conjugated phenol and uraemia on synthesis of, in rat brain homogenates TURNER, G.A. & WARDLE, E.N. 271-275
- Adenosine, metabolism of, in intact erythrocytes deficient in adenosine monophosphate-pyrophosphate phosphoribosyltransferase DEAN, B.M., PERRETT, D., SIMMONDS, H.A., SAHOTA, A. & VAN ACKER, K.J. 407-412
- Adenosine triphosphatase, Na<sup>+</sup> + K<sup>+</sup>-dependent, activity of, in leucocytes from patients with fulminant hepatic failure ALAM, A.N., POSTON, L., WILKINSON, S.P., GOLINDANO, C.G. & WILLIAMS, R. 355-363
- Adenosine triphosphate, content of, in leucocytes from patients with fulminant hepatic failure ALAM, A.N., POSTON, L., WILKINSON, S.P., GOLINDANO, C.G. & WILLIAMS, R. 355-363
- Adenylate cyclase, characterization of  $\beta$ -adrenergic receptor linked to, in a human cancer cell line (COLO 16) MARTIN, T.J., NAHORSKI, S.R., HUNT, N.H., DAWBORN, J.K., LOOMES, R.S. & UNDERWOOD, J.C.E. 23-29
- Adrenaline, effect of, on results of acute ethanol administration on liver oxidative capacity in rats VIDELA, L.A. 341-347
- Adrenaline, peripheral venous plasma concentrations of, in patients on chronic haemodialysis McGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. 89-96
- $\beta$ -Adrenergic receptor, characterization of, linked to adenylate cyclase in a human cancer cell line (COLO 16) MARTIN, T.J., NAHORSKI, S.R., HUNT, N.H., DAWBORN, J.K., LOOMES, R.S. & UNDERWOOD, J.C.E. 23-29
- $\beta$ -Adrenoreceptor, effect of blockade of, on ventilatory response to hypoxia and hypercapnia in normal man PATRICK, J.M., TUTTY, J. & PEARSON, S.B. 491-497
- $\beta$ -Adrenoreceptors, effect of blockade of, in therapy on release of cytosolic and lysosomal enzymes after acute myocardial infarction in man WELMAN, E., FOX, K.M., SELWYN, A.P. & CARROLL, B.J. 549-553
- Adrenoreceptors, effects of antagonists of, on contraction of human vascular smooth muscle MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. 235-240
- Age, difference of kidney response in the rat to temporary ischaemia dependent on KUNEŠ, J., ČAPEK, K., STEJSKAL, J. & JELÍNEK, J. 365-368
- Age, effect of, on intestinal cholecalciferol absorption BARRAGRY, J.M., FRANCE, M.W., CORLESS, D., GUPTA, S.P., SWITALA, S., BOUCHER, B.J. & COHEN, R.D. 213-220
- Alanine, blood concentration of, after injection of galactose in malnourished and septic patients ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204
- Albumin/globulin ratio, colloid osmotic pressure of rat plasma and WELLER, D., AZAR, S., JOHNSON, M.A. & AZAR, M. 529-532

- Albumin, hyperoncotic, identification of a delivery-related influence on proximal tubular reabsorption during expansion with, in the rat DONOHOE, J.F., LEFAVOUR, G.S., CORTELL, S. & GENNARI, F.J. 369-376
- Alcohol, blood, effect of concentration of, on cerebral function POHL, J.E.F. 57-61
- Alcoholic liver disease, changes in hepatic enzymes and organelles in SEYMOUR, C.A. & PETERS, T.J. 383-389
- Aldosteronism, primary, urinary kallikrein excretion and plasma renin activity in patients with essential hypertension and LECHI, A., COVI, G., LECHI, C., CORGNATI, A., AROSIO, E., ZATTI, M. & SCURO, L.A. 51-55
- Alkaline phosphatase, some properties of, from rat ileum brush border BATT, R.M. & PETERS, T.J. 157-165
- Alveolar gas, difference in oxygen tension between arterial blood and HARRIS, E.A., SEELYE, E.R. & WHITLOCK, R.M.L. 125-128
- Amiloride, acute effects of, on potassium exchange, mechanical function and action potential in rabbit myocardium POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Amiloride, effects of rectal infusion of, on rectal potential difference in man MOHAMED, F., MCSORLEY, P. & WARREN, D.J. 231-234
- $\beta$ -Aminopropionitrile, peptide excretion in rats with skeletal lesions produced by ASATOOR, A.M., BENDING, M.R. & MILNE, M.D. 205-212
- Ammoniogenesis, metabolism of glutamine and, in man TIZIANELLO, A., DE FERRARI, G., GARIBOTTO, G. & GURRERI, G. 391-397
- Amylase, survey of salivary kallikrein and, in schoolgirls throughout the menstrual cycle BHOOLA, K.D., MATTHEWS, R.W. & ROBERTS, F. 561-565
- Anaesthesia, effect of, on biliary excretion of dibromosulphthalein in the rat VONK, R.J., SCHOLTENS, E. & STRUBBE, J.H. 399-406
- Angiotensin II, plasma, role of changes in, in high blood pressure in salt-deprived renal hypertensive rats MOURANT, A.J. 81-87
- Antidiuretic hormone, effect of, on hepatic elimination of renin in man HESSE, B., ANDERSEN, E.D. & RING-LARSEN, H. 377-382
- Antidiuretic hormone, effect of, on plasma renin activity in male and female rats HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. 301-307
- Anti-hypertensive drugs, effects of, on contraction of human vascular smooth muscle MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. 235-240
- $\alpha_1$ -Antitrypsin, catabolic rate of, of Pi types S, and M<sub>Malton</sub> and of asialylated M-protein in man JEPSSON, J.-O., LAURELL, C.-B., NOSSLIN, B. & COX, D.W. 103-107
- $\alpha_1$ -Antitrypsin, metabolism of intact and desialylated forms of JONES, E.A., VERGALLA, J., STEER, C.J., BRADLEY-MOORE, P.R. & VIERLING, J.M. 139-148
- Aortic renin, *see* Renin, aortic
- Apolipoprotein C-II, activation of lipoprotein lipase by CRYER, A. & JONES, H.M. 121-123
- Arteriovenous fistula, surgically created, effect of, on heat elimination from human hand and forearm WALLACE, W.F.M. & JAMISON, J.P. 349-353
- Asthma, chronic, retention of lung secretions in the night and BATEMAN, J.R.M., PAVIA, D. & CLARKE, S.W. 523-527
- Autoimmunity, experimental hypertensive vascular disease and CHATELAIN, R.E. & FERRARIO, C.M. 149-156
- Autonomic neuropathy, cardiovascular reflexes and (Editorial Review) EWING, D.J. 321-327
- Baroreceptors, effect of orally-active converting enzyme inhibitor (SQ 14225) on response of, in hypertensive patients CODY, R.J., JR, TARAZI, R.C., BRAVO, E.L. & FOUAD, F.M. 453-459
- Baroreceptors, lack of effect of isometric handgrip exercise on reflex responses of, of carotid sinus in man LUDBROOK, J., FARIS, I.B., IANNOS, J., JAMIESON, G.G. & RUSSELL, W.J. 189-194
- Basement membrane, renal, isolated, effects of concentration-polarization on filtration of proteins through filters constructed from COTTER, T.G. & ROBINSON, G.B. 113-119

- Bile, excretion of dibromosulphthalein in, in the unanaesthetized rat VONK, R.J., SCHOLTENS, E. & STRUBBE, J.H. 399-406
- Bile, influence of food intake on secretion and composition of, in the unanaesthetized rat VONK, R.J., VAN DOORN, A.B.D. & STRUBBE, J.H. 253-259
- Bile, pattern of bilirubin conjugates secreted in, in Gilbert's syndrome GORESKY, C.A., GORDON, E.R., SHAFFER, E.A., PARÉ, P., CARASSAVAS, D. & ARONOFF, A. 63-71
- Biliary fistula, influence of food intake on bile secretion and composition in unanaesthetized rat with VONK, R.J., VAN DOORN, A.B.D. & STRUBBE, J.H. 253-259
- Biliary obstruction, skeletal muscle vasomotor response to infused noradrenaline in baboons with BOMZON, L., WILTON, P.B. & MCCALDEN, T.A. 109-112
- Biliary tract, analytical subcellular fractionation studies on cells of, isolated from normal rat liver SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- Bilirubin, patterns of conjugates of, secreted in bile in Gilbert's syndrome GORESKY, C.A., GORDON, E.R., SHAFFER, E.A., PARÉ, P., CARASSAVAS, D. & ARONOFF, A. 63-71
- Blood flow, bone, post-mortem migration of bone-seeking radionuclides in rat and rabbit and its effect on estimates of TOTHILL, P. & MACPHERSON, J.N. 221-223
- Blood flow, effect of vibration on, in rabbit skeletal muscle HUDLICKÁ, O. & WRIGHT, A. 471-476
- Blood flow, rate of, in hand and forearm in patients with surgically created arteriovenous fistula WALLACE, W.F.M. & JAMISON, J.P. 349-353
- Blood flow, renal, effect of prolactin on, in dogs RILEY, A.L., HAGEN, T.C. & STEFANAİK, J.E. 335-339
- Blood pressure, arterial, interrelationship of aortic renin in spontaneously hypertensive rats with BARRETT, J.D., EGGENA, P. & SAMBHI, M.P. 261-270
- Blood pressure, cardiovascular changes in exercise and central 'set point' for LUDBROOK, J., FARIS, I.B., IANNOS, J., JAMIESON, G.G. & RUSSELL, W.J. 189-194
- Blood pressure, systemic, response of, to renal ischaemia in the rat KUNEŠ, J., ČAPEK, K., STEJSKAL, J. & JELÍNEK, J. 365-368
- Blood volume, lack of effect of expansion of, on short-circuit current across an isolated toad skin incorporated in the circulation of a rat QUERIDO, D. & ISAACSON, L.C. 15-21
- Bone, post-mortem migration of bone-seeking radionuclides in rat and rabbit and its effect on estimates of uptake by TOTHILL, P. & MACPHERSON, J.N. 221-223
- Brain, rat, effect of unconjugated and conjugated phenol and uraemia on synthesis of adenosine 3':5'-cyclic monophosphate in homogenates of TURNER, G.A. & WARDLE, E.N. 271-275
- Bronchitis, chronic, retention of lung secretions in the night and BATEMAN, J.R.M., PAVIA, D. & CLARKE, S.W. 523-527
- Brush border, ileum, rat, some properties of alkaline phosphatase from BATT, R.M. & PETERS, T.J. 157-165
- Brush border, jejunal, effects of prednisolone on enzyme distribution in, of the rat BATT, R.M., WELLS, G. & PETERS, T.J. 435-443
- Brush border, jejunal, enzymic activities in, of patients with non-responsive coeliac disease PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. 293-300
- Brush border, pathology and enzyme activity of, from jejunal biopsy specimens and response to gluten withdrawal in patients with coeliac disease PETERS, T.J., JONES, P.E. & WELLS, G. 285-292
- Cadmium, intestinal absorption and tissue retention of, and calcium in rats given an active metabolite of vitamin D LORENTZON, R. & LARSSON, S.-E. 195-198
- Calcium (<sup>47</sup>Ca), post-mortem migration of, in rat and rabbit and its effect on estimates of bone uptake TOTHILL, P. & MACPHERSON, J.N. 221-223
- Calcium, intestinal absorption and tissue retention of, and cadmium in rats given an active metabolite of vitamin D LORENTZON, R. & LARSSON, S.-E. 195-198
- Calcium metabolism, problems in analysis of dynamic tracer studies with particular reference to studies of (Editorial Review) REEVE, J., VEALL, N. & WOOTTON, R. 225-230
- Calorimetry, heat elimination from hand and forearm measured by, in patients with surgically created arteriovenous fistula WALLACE, W.F.M. & JAMISON, J.P. 349-353

- Cancer cell line (COLO 16), human, characterization of  $\beta$ -adrenergic receptor linked to adenylate cyclase in MARTIN, T.J., NAHORSKI, S.R., HUNT, N.H., DAWBORN, J.K., LOOMES, R.S. & UNDERWOOD, J.C.E. 23-29
- Carbimazole, effect of, on formation of tri-iodothyronine and reverse tri-iodothyronine from thyroxine in isolated rat renal tubules HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. 567-572
- Carbon dioxide, effect of variation in partial pressure of, on intracellular pH and lactate consumption in isolated perfused rat liver BARON, P.G., ILES, R.A. & COHEN, R.D. 175-181
- Carbon dioxide-rebreathing method, comparison of cardiac output determined by, and direct Fick methods at rest and during exercise REYBROUCK, T., AMERY, A., BILLIET, L., FAGARD, R. & STIJNS, H. 445-452
- Carbon dioxide, respiratory response to inhalation of, in man after 3 h exposure to 3% carbon dioxide PROWSE, K., DUVIVIER, C., PESLIN, R. & SADOUL, P. 309-316
- Cardiac output, comparison of, determined by a carbon dioxide-rebreathing method and direct Fick method at rest and during exercise REYBROUCK, T., AMERY, A., BILLIET, L., FAGARD, R. & STIJNS, H. 445-452
- Cardiac output, distribution of, in the anaesthetized rat with spontaneous hypertension HILEY, C.R. & YATES, M.S. 317-320
- Cardiovascular reflexes, autonomic neuropathy and (Editorial Review) EWING, D.J. 321-327
- Carotid sinus, lack of effect of isometric handgrip exercise on baroreceptor reflex responses of, in man LUDBROOK, J., FARIS, I.B., IANNOS, J., JAMIESON, G.G. & RUSSELL, W.J. 189-194
- Catecholamines, effect of, on secretion of thyrotrophin (Editorial Review) SCANLON, M.F., REES SMITH, B. & HALL, R. 129-138
- Catecholamines, peripheral venous plasma concentrations of, in patients on chronic haemodialysis MCGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. 89-96
- Cerebrum, effect of blood alcohol concentration on function of POHL, J.E.F. 57-61
- Chemoreceptors, role of, in ventilatory response to hypoxia and hypocapnia in normal man PATRICK, J.M., TUTTY, J. & PEARSON, S.B. 491-497
- Cholecalciferol, intestinal absorption of, in elderly and younger adults BARRAGRY, J.M., FRANCE, M.W., CORLESS, D., GUPTA, S.P., SWITALA, S., BOUCHER, B.J. & COHEN, R.D. 213-220
- Cholesterol, parallel changes between lipoprotein lipase activating capacity and concentrations of, in serum of rats and ferrets during development and dietary manipulation CRYER, A. & JONES, H.M. 121-123
- Circadian rhythm, bile production in rats and VONK, R.J., VAN DOORN, A.B.D. & STRUBBE, J.H. 253-259
- Circadian rhythm, variation in, in biliary excretion of dibromosulphthalein in the unanaesthetized rat VONK, R.J., SCHOLTENS, E. & STRUBBE, J.H. 399-406
- Coeliac disease, enzyme activities and organelle pathology in jejunal biopsy specimens from patients with PETERS, T.J., JONES, P.E. & WELLS, G. 285-292
- Coeliac disease, non-responsive, analytical subcellular fractionation of jejunal biopsy specimens from patients with PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. 293-300
- Collagen, changes in, of synovial membrane in rheumatoid arthritis and effect of D-penicillamine LOVELL, C.R., NICHOLLS, A.C., JAYSON, M.I.V. & BAILEY, A.J. 31-40
- Colloid osmotic pressure, plasma, rat, albumin/globulin ratios, protein concentration and WELLER, D., AZAR, S., JOHNSON, M.A. & AZAR, M. 529-532
- Concentration-polarization, effects of, on filtration of proteins through filters constructed from isolated renal basement membrane COTTER, T.G. & ROBINSON, G.B. 113-119
- Converting enzyme, haemodynamics of orally-active inhibitor (SQ 14225) of, in hypertensive patients CODY, R.J., JR, TARAZI, R.C., BRAVO, E.L. & FOUAD, F.M. 453-459
- Creatine kinase, plasma, assay of, after acute myocardial infarction in man WELMAN, E., FOX, K.M., SELWYN, A.P. & CARROLL, B.J. 549-553
- Cyproterone acetate, effect of, on plasma renin activity in male and female rats HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. 301-307
- Cytochrome oxidase, changes in renal activity of, after temporary ischaemia of kidney in the rat KUNEŠ, J., ČAPEK, K., STEJSKAL, J. & JELÍNEK, J. 365-368

- Cytochrome *P*-450, hepatic, nature of, induced in hexachlorobenzene-fed rats BLEKKENHORST, G.H., EALES, L. & PIMSTONE, N.R. 461-469
- Cytosol, jejunal, enzymic activities in, of patients with non-responsive coeliac disease PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. 293-300
- Dead space, respiratory, revised standards for prediction of normal volume at rest of HARRIS, E.A., SEELYE, E.R. & WHITLOCK, R.M.L. 125-128
- Deconvolution, analysis of dynamic tracer studies by technique of (Editorial Review) REEVE, J., VEALL, N. & WOOTTON, R. 225-230
- Desialylation, metabolism of  $\alpha_1$ -antitrypsin modified by JONES, E.A., VERGALLA, J., STEER, C.J., BRADLEY-MOORE, P.R. & VIERLING, J.M. 139-148
- Diabetes, exchange of metabolites in the leg of exercising juvenile subjects with LYNGSØE, J., CLAUSEN, J.P., TRAP-JENSEN, J., SESTOFT, L., SCHAFFALITZKY DE MUCKADELL, O., HOLST, J.J., NIELSEN, S.L. & REHFELD, J.F. 73-80
- Diabetes mellitus, cardiovascular reflexes in patients with (Editorial Review) EWING, D.J. 321-327
- Dibromosulphthalein, biliary excretion of, in the unanaesthetized rat VONK, R.J., SCHOLTENS, E. & STRUBBE, J.H. 399-406
- Digitalis glycosides, use of, in sinus rhythm (Editorial Review) GUZ, A. & MCHAFFIE, D. 417-421
- 24,25-Dihydroxycholecalciferol, absence of, in serum from anephric patients TAYLOR, C.M., MAWER, E.B., WALLACE, J.E., ST JOHN, J., COCHRAN, M., RUSSELL, R.G.G. & KANIS, J.A. 541-547
- 1,25-Dihydroxycholecalciferol, intestinal absorption and tissue retention of cadmium and calcium in rats given an active metabolite of LORENTZON, R. & LARSSON, S.-E. 195-198
- 3,4-Dihydroxyphenethylamine, *see* Dopamine
- Diuretics, acute effects of, on potassium exchange, mechanical function and action potential in rabbit myocardium POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Dopamine, effect of unconjugated and conjugated phenol and uraemia on response of rat brain cortex to TURNER, G.A. & WARDLE, E.N. 271-275
- Dopamine, effects of inorganic salts on urinary excretion of, in man and rat BALL, S.G., OATES, N.S. & LEE, M.R. 167-173
- Duodenal ulcer, pathophysiology of gastric ulcer with and without associated LAM, S.K. & LAI, C.L. 97-102
- Electrogenic ion transport, rectal potential difference and, in man MOHAMED, F., MCSORLEY, P. & WARREN, D.J. 231-234
- Endoplasmic reticulum, pathology and enzyme activity of, from jejunal biopsy specimens and response to gluten withdrawal in patients with coeliac disease PETERS, T.J., JONES, P.E. & WELLS, G. 285-292
- Enterocyte, rat, effects of prednisolone on, at a subcellular level BATT, R.M., WELLS, G. & PETERS, T.J. 435-443
- Enterocytes, analytical subcellular fractionation studies on, from jejunum and ileum of the rat BATT, R.M. & PETERS, T.J. 157-165
- Environmental chamber, studies with, of respiratory response to inhaled carbon dioxide PROWSE, K., DUVIVIER, C., PESLIN, R. & SADOUL, P. 309-316
- Enzymes, hepatic, changes in, and other organelles in alcoholic liver disease SEYMOUR, C.A. & PETERS, T.J. 383-389
- Epidermis, human, characterization of  $\beta$ -adrenergic receptor linked to adenylate cyclase in a cancer cell line from MARTIN, T.J., NAHORSKI, S.R., HUNT, N.H., DAWBORN, J.K., LOOMES, R.S. & UNDERWOOD, J.C.E. 23-29
- Erythrocytes, hypoxanthine-guanine phosphoribosyltransferase activity in haemolysates of, from mice with muscular dystrophy NEERUNJUN, J.S., ALLSOP, J. & DUBOWITZ, V. 573-576
- Erythrocytes, intact, adenine and adenosine metabolism in, deficient in adenosine monophosphate-pyrophosphate phosphoribosyltransferase DEAN, B.M., PERRETT, D., SIMMONDS, H.A., SAHOTA, A. & VAN ACKER, J.J. 407-412
- Essential hypertension, *see* Hypertension, essential
- Ethanol, blood, effect of concentration of, on cerebral function POHL, J.E.F. 57-61

- Ethanol, effect of, on liver oxidative capacity in rats VIDELA, L.A. 341-347
- Exercise, comparison of cardiac output determined by a carbon dioxide-rebreathing method and direct Fick method at rest and during REYBROUCK, T., AMERY, A., BILLIET, L., FAGARD, R. & STIJNS, H. 445-452
- Exercise, effect of, on hepatic elimination of renin in man HESSE, B., ANDERSEN, E.D. & RING-LARSEN, H. 377-382
- Exercise, exchange of metabolites in the leg of juvenile diabetic subjects during LYNGSØE, J., CLAUSEN, J.P., TRAP-JENSEN, J., SESTOFT, L., SCHAFFALITZKY DE MUCKADELL, O., HOLST, J.J., NIELSEN, S.L. & REHFELD, J.F. 73-80
- Exercise, handgrip, isometric, lack of effect of, on responses of carotid sinus baroreceptor reflex in man LUDBROOK, J., FARIS, I.B., IANNOS, J., JAMIESON, G.G. & RUSSELL, W.J. 189-194
- Exercise, repeated, haemodynamic variables during, in chronic lung disease SCHRIJEN, F. & JEŽEK, V. 485-490
- Extracellular fluid volume, role of changes in, in high blood pressure in salt-deprived renal hypertensive rats MOURANT, A.J. 81-87
- Fanconi syndrome, experimental, peptide excretion in rats with, produced by sodium maleate ASATOOR, A.M., BENDING, M.R. & MILNE, M.D. 205-212
- Fick method, direct, comparison of cardiac output determined by, and a carbon dioxide-rebreathing method at rest and during exercise REYBROUCK, T., AMERY, A., BILLIET, L., FAGARD, R. & STIJNS, H. 445-452
- Fistula, arteriovenous, surgically created, effect of, on heat elimination from human hand and forearm WALLACE, W.F.M. & JAMISON, J.P. 349-353
- Fluorine ( $^{18}\text{F}$ ), post-mortem migration of, in rat and rabbit and its effect on estimates of bone uptake TOTHILL, P. & MACPHERSON, J.N. 221-223
- Foetus, guinea pig, excretion of urea by HORN, J. 329-333
- Frusemide, acute effects of, on potassium exchange, mechanical function and action potential in rabbit myocardium POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Fulminant hepatic failure, study *in vitro* of sodium pump in ALAM, A.N., POSTON, L., WILKINSON, S.P., GOLINDANO, C.G. & WILLIAMS, R. 355-363
- Galactose, hepatic metabolism and, in malnutrition and sepsis in man ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204
- Gastric ulcer, pathophysiology of, with and without associated duodenal ulcer LAM, S.K. & LAI, C.L. 97-102
- Gastrin, integrated responses to, in patients with gastric and duodenal ulcers LAM, S.K. & LAI, C.L. 97-102
- Gilbert's syndrome, pattern of bilirubin conjugates in bile secreted by patients with, and handling of bilirubin loads GORESKY, C.A., GORDON, E.R., SHAFFER, E.A., PARÉ, P., CARASSAVAS, D. & ARONOFF, A. 63-71
- Glomerular capillary pressures, calculation of, from measured colloid osmotic pressure in the rat WELER, D., AZAR, S., JOHNSON, M.A. & AZAR, M. 529-532
- Glomerular filtration rate, effect of prolactin on, in dogs RILEY, A.L., HAGEN, T.C. & STEFANAİK, J.E. 335-339
- Glomerular filtration, relevance of effects of concentration-polarization on filtration of proteins through filters constructed from renal basement membrane to COTTER, T.G. & ROBINSON, G.B. 113-119
- Glucagon, anti-ketogenic effect of insulin and, in man ELKELES, R.S., CHALMERS, R.A. & HAMBLEY, J. 499-504
- Gluconeogenesis, mechanism of effect of varying  $\text{PCO}_2$  on, from lactate in perfused rat liver ILES, R.A., BARON, P.G. & COHEN, R.D. 183-188
- Glucose, blood concentration of, after injection of galactose in malnourished and septic patients ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204
- Glutamine, effects of chronic renal insufficiency and metabolic acidosis on metabolism of, in man TIZIANELLO, A., DE FERRARI, G., GARIBOTTO, G. & GURRERI, G. 391-397

- $\gamma$ -Glutamyl transferase, activities of, in subcellular fractions of different cell types isolated from normal rat liver SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- Gluten, response of withdrawal of, of enzyme activities and organelle pathology in jejunal biopsy specimens from patients with coeliac disease PETERS, T.J., JONES, P.E. & WELLS, G. 285-292
- Glycerol, protective effect of prostaglandin E<sub>2</sub> in acute renal failure in rats induced by WERB, R., CLARK, W.F., LINDSAY, R.M., JONES, E.O.P., TURNBALL, D.I. & LINTON, A.L. 505-507
- Glycoproteins, metabolism of JONES, E.A., VERGALLA, J., STEER, C.J., BRADLEY-MOORE, P.R. & VIERLING, J.M. 139-148
- Granules, renin, renin release from, in the dog FUNAKAWA, S., HIGASHIO, T. & YAMAMOTO, K. 11-14
- Granulocytes, human, fate of oxygen consumed during phagocytosis by SEGAL, A.W., CLARK, J. & ALLISON, A.C. 413-415
- Haemodialysis, chronic, catecholamines in peripheral venous plasma of patients on McGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. 89-96
- Haemodynamics, intrarenal, 'transit renography' and determination of, in the rabbit and rat WILKINSON, S.P., BERNARDI, M., PEARCE, P.C., BRITTON, K.E., BROWN, N.G.J., POSTON, L., CLARKE, M., JENNER, R. & WILLIAMS, R. 277-283
- Haemodynamics, repeated exercise in chronic lung disease and SCHRIJEN, F. & JEZEK, V. 485-490
- Heart rate, autonomic neuropathy and (Editorial Review) EWING, D.J. 321-327
- Heart rate, change in, from alteration of carotid sinus transmural pressure at rest and during isometric handgrip exercise LUDBROOK, J., FARIS, I.B., IANNOS, J., JAMIESON, G.G. & RUSSELL, W.J. 189-194
- Heart, use of digitalis glycosides in sinus rhythm of (Editorial Review) GUZ, A. & MCHAFFIE, D. 417-421
- Heterozygotes, metabolism of adenine and adenosine in intact erythrocytes from families with, and homozygotes for deficiency of adenosine monophosphate-pyrophosphate phosphoribosyltransferase DEAN, B.M., PERRETT, D., SIMMONDS, H.A., SAHOTA, A. & VAN ACKER, K.J. 407-412
- Hexachlorobenzene, nature of hepatic cytochrome P-450 induced in rats fed with BLEKKENHORST, G.H., EALES, L. & PIMSTONE, N.R. 461-469
- Hippuran, *see* Sodium *o*-iodohippurate
- Homozygotes, metabolism of adenine and adenosine in intact erythrocytes from families with, and heterozygotes for deficiency of adenosine monophosphate-pyrophosphate phosphoribosyltransferase DEAN, B.M., PERRETT, D., SIMMONDS, H.A., SAHOTA, A. & VAN ACKER, K.J. 407-412
- Hydrogen peroxide, formation of, from oxygen consumed during phagocytosis by human neutrophils SEGAL, A.W., CLARK, J. & ALLISON, A.G. 413-415
- 3-Hydroxybutyrate, plasma, hepatic effect of insulin in man in decreasing ELKELES, R.S., CHALMERS, R.A. & HAMBLEY, J. 499-504
- 24-Hydroxylation, renal site for, of 25-hydroxycholecalciferol in man TAYLOR, C.M., MAWER, E.B., WALLACE, J.E., ST JOHN, J., COCHRAN, M., RUSSELL, R.G.G. & KANIS, J.A. 541-547
- Hyperbilirubinaemia, pattern of bilirubin conjugates in bile secreted by patients with, and handling of bilirubin loads GORESKY, C.A., GORDON, E.R., SHAFFER, E.A., PARÉ, P., CARASSAVAS, D. & ARONOFF, A. 63-71
- Hypercapnia, effect of, on intracellular pH and lactate consumption in isolated perfused rat liver BARON, P.G., ILES, R.A. & COHEN, R.D. 175-181
- Hypercapnia, effect of, on respiratory response to inhaled carbon dioxide PROWSE, K., DUVIVIER, C., PESLIN, R. & SADOUL, P. 309-316
- Hypercapnia, mechanism of effect of, on gluconeogenesis from lactate in perfused rat liver ILES, R.A., BARON, P.G. & COHEN, R.D. 183-188
- Hypercapnia, propranolol and ventilatory response to, in normal man PATRICK, J.M., TUTTY, J. & PEARSON, S.B. 491-497
- Hypertension, essential, abnormalities of renal transport of sodium *o*-iodohippurate (Hippuran) in REEVE, J., CRAWLEY, J.C.W., GOLDBERG, A.D., KENNARD, C., KENNY, D. & SMITH, I.K. 241-247



- Hypertension, essential, urinary kallikrein excretion and plasma renin activity in patients with aldosteronism and LECHI, A., COVI, G., LECHI, C., CORGNATI, A., AROSIO, E., ZATTI, M. & SCURO, L.A. 51-55
- Hypertension, renal, biphasic changes in thymus structure during evolution of, in the rat CHATELAIN, R.E. & FERRARIO, C.M. 149-156
- Hypertension, renal, determinants of high blood pressure in salt-deprived rats with MOURANT, A.J. 81-87
- Hypertension, spontaneous, distribution of cardiac output in anaesthetized rats with HILEY, C.R. & YATES, M.S. 317-320
- Hypertension, spontaneous, partial characterization of aortic renin in rats with BARRETT, J.D., EGGENA, P. & SAMBHI, M.P. 261-270
- Hypocapnia, effect of, on intracellular pH and lactate consumption in isolated perfused rat liver BARON, P.G., ILES, R.A. & COHEN, R.D. 175-181
- Hypocapnia, mechanism of effect of, on gluconeogenesis from lactate in perfused rat liver ILES, R.A., BARON, P.G. & COHEN, R.D. 183-188
- Hypophysectomy, effect of, on plasma renin activity in male and female rats HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. 301-307
- Hypoxanthine-guanine phosphoribosyltransferase, activity of, in blood and skeletal muscles of normal and dystrophic mice NEERUNJUN, J.S., ALLSOP, J. & DUBOWITZ, V. 573-576
- Hypoxia, propranolol and ventilatory response to, in normal man PATRICK, J.M., TUTTY, J. & PEARSON, S.B. 491-497
- Ileum, rat, analytical subcellular fractionation studies on enterocytes from BATT, R.M. & PETERS, T.J. 157-165
- Ileum, rat, effects of prednisolone on subcellular components of enterocytes from BATT, R.M., WELLS, G. & PETERS, T.J. 435-443
- Insulin, arterial concentration of, in exercising subjects LYNGSØE, J., CLAUSEN, J.P., TRAP-JENSEN, J., SESTOFT, L., SCHAFFALITZKY DE MUCKADELL, O., HOLST, J.J., NIELSEN, S.L., & REHFELD, J.F. 73-80
- Insulin, hepatic anti-ketogenic effect of, in man ELKELES, R.S., CHALMERS, R.A. & HAMBLEY, J. 499-504
- Intestine, absorption by, of cadmium and calcium in rats given an active metabolite of vitamin D LORENTZON, R. & LARSSON, S.-E. 195-198
- Intestine, absorption of cholecalciferol by, in elderly and younger adults BARRAGRY, J.M., FRANCE, M.W., CORLESS, D., GUPTA, S.P., SWITALA, S., BOUCHER, B.J. & COHEN, R.D. 213-220
- Intestine, rat, analytical subcellular fractionation studies on enterocytes from BATT, R.M. & PETERS, T.J. 157-165
- Intestine, small, rat, changes in histology of, induced by a diet of Vivonex NELSON, L.M., CARMICHAEL, H.A., RUSSELL, R.I. & LEE, F.D. 509-511
- Intestine, small, rat, effects of prednisolone on subcellular components of enterocytes from BATT, R.M., WELLS, G. & PETERS, T.J. 435-443
- Iodide, effect of, on formation of tri-iodothyronine and reverse tri-iodothyronine from thyroxine in isolated rat renal tubules HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. 567-572
- Jejunum, human, enzyme activity, organelle pathology and response to corticosteroids of biopsy specimens of, from patients with non-responsive coeliac disease PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. 293-300
- Jejunum, rat, analytical subcellular fractionation studies on enterocytes from BATT, R.M. & PETERS, T.J. 157-165
- Jejunum, rat, changes in histology of, induced by a diet of Vivonex NELSON, L.M., CARMICHAEL, H.A., RUSSELL, R.I. & LEE, F.D. 509-511
- Jejunum, rat, effects of prednisolone on subcellular components of enterocytes from BATT, R.M., WELLS, G. & PETERS, T.J. 435-443
- Judgment, blood alcohol and impairment of POHL, J.E.F. 57-61

- Kallikrein, excretion of, in urine and plasma renin activity in patients with essential hypertension and aldosteronism LECHI, A., COVI, G., LECHI, C., CORGNATI, A., AROSIO, E., ZATTI, M. & SCURO, L.A. 51-55
- Kallikrein, survey of salivary amylase and, in schoolgirls throughout the menstrual cycle BHOOLA, K.D., MATTHEWS, R.W. & ROBERTS, F. 561-565
- Kidney, absence of 24,25-dihydroxycholecalciferol in serum from patients with non-functioning TAYLOR, C.M., MAWER, E.B., WALLACE, J.E., ST JOHN, J., COCHRAN, M., RUSSELL, R.G.G. & KANIS, J.A. 541-547
- Kidney, age-dependent difference of response of, to temporary ischaemia in the rat KUNEŠ, J., ČAPEK, K., STEJSKAL, J. & JELÍNEK, J. 365-368
- Kidney, comparison of 'transit renography' and microsphere methods for determination of plasma flow in, of the rabbit and rat WILKINSON, S.P., BERNARDI, M., PEARCE, P.C., BRITTON, K.E., BROWN, N.G.J., POSTON, L., CLARKE, M., JENNER, R. & WILLIAMS, R. 277-283
- Kidney, dog, effect of prolactin on blood flow in RILEY, A.L., HAGEN, T.C. & STEFANAİK, J.E. 335-339
- Kidney, effects of concentration-polarization on filtration of proteins through filters constructed from isolated basement membranes of COTTER, T.G. & ROBINSON, G.B. 113-119
- Kidney, formation of dopamine in, in man and rat BALL, S.G., OATES, N.S. & LEE, M.R. 167-173
- Kidney, perfused, vascular resistance in, from rat with glycerol-induced acute renal failure HOFBAUER, K.G., BAUEREISS, K., KONRADS, K. & GROSS, F. 249-252
- Kidney, rat, identification of a delivery-related influence on proximal tubular reabsorption in, during expansion with hyperoncotic albumin DONOHOE, J.F., LEFAVOUR, G.S., CORTELL, S. & GENNARI, F.J. 369-376
- Kidney, rat, isolated, perfusion of (Editorial Review) ROSS, B.D. 513-521
- Kupffer cells, analytical subcellular fractionation studies on, isolated from normal rat liver SELDEN, C. WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- Labetalol, effects of, on contraction of human vascular smooth muscle MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. 235-240
- Lactate, blood concentration of, after injection of galactose in malnourished and septic patients ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204
- Lactate, effect of varying  $PCO_2$  on consumption of, in isolated perfused rat liver BARON, P.G., ILES, R.A. & COHEN, R.D. 175-181
- Lactate, mechanism of effect of varying  $PCO_2$  on gluconeogenesis from, in perfused rat liver ILES, R.A., BARON, P.G. & COHEN, R.D. 183-188
- Lactic acidosis, varying  $PCO_2$  and, in isolated perfused rat liver BARON, P.G., ILES, R.A. & COHEN, R.D. 175-181
- Leucocytes, human, fate of oxygen consumed during phagocytosis by SEGAL, A.W., CLARK, J. & ALLISON, A.C. 413-415
- Leucocytes, sodium fluxes, enzyme activity and adenosine triphosphate content in, from patients with fulminant hepatic failure ALAM, A.N., POSTON, L., WILKINSON, S.P., GOLINDANO, C.G. & WILLIAMS, R. 355-363
- Lipid, parallel changes between lipoprotein lipase activating capacity and concentrations of, in serum of rats and ferrets during development and dietary manipulation CRYER, A. & JONES, H.M. 121-123
- Lipolysis, metabolism of leg muscle and, in exercising juvenile diabetic subjects LYNGSØE, J., CLAUSEN, J.P., TRAP-JENSEN, J., SESTOFT, L., SCHAFFALITZKY DE MUCKADELL, O., HOLST, J.J., NIELSEN, S.L. & REHFELD, J.F. 73-80
- Lipoprotein lipase, activating capacity for, of serum from rats and ferrets during development and dietary manipulation CRYER, A. & JONES, H.M. 121-123
- Liver, clearance of renin by, in man HESSE, B., ANDERSEN, E.D. & RING-LARSEN, H. 377-382
- Liver disease, alcoholic, changes in hepatic enzymes and organelles in SEYMOUR, C.A. & PETERS, T.J. 383-389
- Liver, effect of ethanol on oxidative capacity of, in rats VIDELA, L.A. 341-347
- Liver, galactose and metabolism in, in malnutrition and sepsis in man ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204

- Liver, rat, normal, analytical subcellular fractionation studies on different cell types isolated from SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- Lung disease, chronic, haemodynamic variables during repeated exercise in SCHRIJEN, F. & JEŽEK, V. 485-490
- Lung, human, physical properties of arteries and veins of BANKS, J., BOOTH, F.V.McL., MACKAY, E.H., RAJAGOPALAN, B. & LEE, G. DE J. 477-484
- Lung, retention of secretions from, during the night in normal subjects BATEMAN, J.R.M., PAVIA, D. & CLARKE, S.W. 523-527
- Lysine vasopressin, effect of, on hepatic elimination of renin in man HESSE, B., ANDERSEN, E.D. & RING-LARSEN, H. 377-382
- Lysosomes, hepatic, changes in, and other organelles in alcoholic liver disease SEYMOUR, C.A. & PETERS, T.J. 383-389
- Lysosomes, pathology and enzyme activity of, from jejunal biopsy specimens and response to gluten withdrawal in patients with coeliac disease PETERS, T.J., JONES, P.E. & WELLS, G. 285-292
- Malnutrition, galactose and hepatic metabolism in sepsis and, in man ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204
- Maternal-foetal exchange, transfer of urea in, of guinea pig HORN, J. 329-333
- Mathematical modelling, analysis of dynamic tracer studies by (Editorial Review) REEVE, J., VEALL, N. & WOOTTON, R. 225-230
- Membrane-bound renin, presence of, in renin granules in the dog FUNAKAWA, S., HIGASHIO, T. & YAMAMOTO, K. 11-14
- Menstrual cycle, survey of salivary kallikrein and amylase in schoolgirls throughout BHOOLA, K.D., MATTHEWS, R.W. & ROBERTS, F. 561-565
- Mental impairment, blood alcohol and POHL, J.E.F. 57-61
- Metabolic acidosis, *see* Acidosis, metabolic
- Microsomes, hepatic, changes in, and other organelles in alcoholic liver disease SEYMOUR, C.A. & PETERS, T.J. 383-389
- Microsomes, jejunal, enzymic activities in, of patients with non-responsive coeliac disease PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. 293-300
- Microsomes, pathology and enzyme activity of, from jejunal biopsy specimens and response to gluten withdrawal in patients with coeliac disease PETERS, T.J., JONES, P.E. & WELLS, G. 285-292
- Microspheres, comparison of determination of intrarenal plasma flow by transit renography and by use of, in the rabbit and rat WILKINSON, S.P., BERNARDI, M., PEARCE, P.C., BRITTON, K.E., BROWN, N.G.J., POSTON, L., CLARKE, M., JENNER, R. & WILLIAMS, R. 277-283
- Microspheres, radioactive, use of, in determination of cardiac output in the rat HILEY, C.R. & YATES, M.S. 317-320
- Mitochondria, hepatic, changes in, and other organelles in alcoholic liver disease SEYMOUR, C.A. & PETERS, T.J. 383-389
- Mucociliary clearance, measurement of, in normal subjects BATEMAN, J.R.M., PAVIA, D. & CLARKE, S.W. 523-527
- Muscle, leg, metabolism of, in exercising juvenile diabetic subjects LYNGSØE, J., CLAUSEN, J.P., TRAP-JENSEN, J., SESTOFT, L., SCHAFFALITZKY DE MUCKADELL, O., HOLST, J.J., NIELSEN, S.L. & REHFELD, J.F. 73-80
- Muscle, skeletal, blood flow in, after infusion of noradrenaline in baboons with obstructive jaundice BOMZON, L., WILTON, P.B. & MCCALDEN, T.A. 109-112
- Muscle, skeletal, rabbit, effect of vibration on blood flow in HUDLICKÁ, O. & WRIGHT, A. 471-476
- Muscle, smooth, vascular, human, effects of antagonists of adrenoreceptors on contraction of MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. 235-240
- Muscular dystrophy, hypoxanthine-guanine phosphoribosyltransferase activity in blood and skeletal muscles of mice with NEERUNJUN, J.S., ALLSOP, J. & DUBOWITZ, V. 573-576
- Myocardial infarction, effect of established  $\beta$ -adrenoreceptor-blocking therapy on release of cytosolic and lysosomal enzymes in man after WELMAN, E., FOX, K.M., SELWYN, A.P. & CARROLL, B.J. 549-553

- Myocardium, rabbit, acute effects of diuretics on potassium exchange, mechanical function and action potential in POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Natriuretic hormone, evidence for existence of QUERIDO, D. & ISAACSON, L.C. 15-21
- Neutrophils, human, fate of oxygen consumed during phagocytosis by SEGAL, A.W., CLARK, J. & ALLISON, A.C. 413-415
- Noradrenaline, effect of unconjugated and conjugated phenol and uraemia on response of rat brain cortex to TURNER, G.A. & WARDLE, E.N. 271-275
- Noradrenaline, peripheral venous plasma concentrations of, in patients on chronic haemodialysis MCGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. 89-96
- Noradrenaline, skeletal muscle vasomotor response to infusion of, in baboons with obstructive jaundice BOMZON, L., WILTON, P.B. & MCCALDEN, T.A. 109-112
- 5'-Nucleotidase, activities of, in subcellular fractions of different cell types isolated from normal rat liver SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- Nutrition, oral, effects of type of, on histology of jejunum in the rat NELSON, L.M., CARMICHAEL, H.A., RUSSELL, R.I. & LEE, F.D. 509-511
- Oncotic pressure, *see* Colloid osmotic pressure
- Osteolathyrism, peptide excretion in rats with, produced by  $\beta$ -aminopropionitrile ASATOOR, A.M., BENDING, M.R. & MILNE, M.D. 205-212
- Oxprenolol, effects of, on contraction of human vascular smooth muscle MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. 235-240
- Oxygen, arterial, revised standards for prediction of normal tension of HARRIS, E.A., SEELYE, E.R. & WHITLOCK, R.M.L. 125-128
- Oxygen, fate of, consumed during phagocytosis by human neutrophils SEGAL, A.W., CLARK, J. & ALLISON, A.C. 413-415
- Parenchymal cells, analytical subcellular fractionation studies on, isolated from normal rat liver SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- D-Penicillamine, changes in collagen of synovial membrane in rheumatoid arthritis and effect of LOVELL, C.R., NICHOLLS, A.C., JAYSON, M.I.V. & BAILEY, A.J. 31-40
- Pentagastrin, maximal acid output after stimulation by, in patients with gastric and duodenal ulcers LAM, S.K. & LAI, C.L. 97-102
- Peptide, urinary excretion of, in experimental Fanconi syndrome in the rat ASATOOR, A.M., BENDING, M.R. & MILNE, M.D. 205-212
- pH, intracellular, effect of varying  $P_{CO_2}$  on, and lactate consumption in isolated perfused rat liver BARON, P.G., ILES, R.A. & COHEN, R.D. 175-181
- pH, intracellular, mechanism of effect of, on gluconeogenesis from lactate in perfused rat liver ILES, R.A., BARON, P.G. & COHEN, R.D. 183-188
- Phenol, unconjugated and conjugated, effect of, on synthesis of adenosine 3':5'-cyclic monophosphate in rat brain homogenates TURNER, G.A. & WARDLE, E.N. 271-275
- Phosphatase, alkaline, activities of, in subcellular fractions of different cell types isolated from normal rat liver SELDEN, C., WOOTTON, A.M., MOSS, D.W. & PETERS, T.J. 423-427
- Phosphate, tubular reabsorption of, in sickle-cell anaemia nephropathy DE JONG, P.E., DE JONG-VAN DEN BERG, L.T.W. & STATIUS VAN EPS, L.W. 429-434
- Pituitary gland, actions of thyrotrophin-releasing hormone on hormones of (Editorial Review) SCANLON, M.F., REES SMITH, B. & HALL, R. 1-10, 129-138
- Placenta, foetal, transfer of urea in, of guinea pig HORN, J. 329-333
- Plasma membrane, hepatic, changes in, and other organelles in alcoholic liver disease SEYMOUR, C.A. & PETERS, T.J. 383-389
- Plasma membrane, jejunal, enzymic activities in, of patients with non-responsive coeliac disease PETERS, T.J., JONES, P.E., JENKINS, W.J. & WELLS, G. 293-300
- Plasma renin activity, effects of vasopressin on, in male and female rats HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. 301-307

- Plasma renin activity, plasma adrenaline and, in patients on chronic haemodialysis MCGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. 89-96
- Plasma volume, role of changes in, in high blood pressure in salt-deprived renal hypertensive rats MOURANT, A.J. 81-87
- Porphyria, development of, in rats fed with hexachlorobenzene BLEKKENHORST, G.H., EALES, L. & PIMSTONE, N.R. 461-469
- Posture, effect of change in, on plasma catecholamines in peripheral venous plasma of patients on chronic haemodialysis MCGRATH, B.P., LEDINGHAM, J.G.G. & BENEDICT, C.R. 89-96
- Potassium exchange, acute effects of diuretics on, in rabbit myocardium POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Potassium ion, effect of, on urinary excretion of dopamine in man and rat BALL, S.G., OATES, N.S. & LEE, M.R. 167-173
- Potentiometry, comparison of methods of, for rectal measurements in man MOHAMED, F., MCSORLEY, P. & WARREN, D.J. 231-234
- Pro-enzyme, nature of, of renin in human plasma and amniotic fluid SHULKES, A.A., GIBSON, R.R. & SKINNER, S.L. 41-50
- Prolactin, effect of, on glomerular filtration rate RILEY, A.L., HAGEN, T.C. & STEFANAİK, J.E. 335-339
- Propranolol, effect of, on ventilatory response to hypoxia and hypocapnia in normal man PATRICK, J.M., TUTTY, J. & PEARSON, S.B. 491-497
- Propranolol, effects of, on contraction of human vascular smooth muscle MOULDS, R.F.W., JAUERNIG, R.A., HOBSON, J.D. & SHAW, J. 235-240
- 6-Propyl-3-thiouracil, effect of, on formation of tri-iodothyronine and reverse tri-iodothyronine from thyroxine in isolated rat renal tubules HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. 567-572
- Prorenin, activation of, in human plasma and amniotic fluid SHULKES, A.A., GIBSON, R.R. & SKINNER, S.L. 41-50
- Prostaglandin E<sub>2</sub>, protective effect of, in glycerol-induced acute renal failure in rats WERB, R., CLARK, W.F., LINDSAY, R.M., JONES, E.O.P., TURNBALL, D.I. & LINTON, A.L. 505-507
- Prostaglandins, effect of, on secretion on thyrotrophin (Editorial Review) SCANLON, M.F., REES SMITH, B. & HALL, R. 129-138
- Protein, plasma, rat, colloid osmotic pressure, albumin/globulin ratio and WELLER, D., AZAR, S., JOHNSON, M.A. & AZAR, M. 529-532
- Pulmonary circulation, effects of repeated exercise in chronic lung disease on SCHRIJEN, F. & JEZEK, V. 485-490
- Pulmonary vessels, human, physical properties of BANKS, J., BOOTH, F.V. MCL., MACKAY, E.H., RAJAGOPALAN, B. & LEE, G. DE, J. 477-484
- Pulmonary viscous work, effect of hypercapnia on PROWSE, K., DUVIVIER, C., PESLIN, R. & SADOUL, P. 309-316
- Radioisotopes, problems in analysis of dynamic studies with (Editorial Review) REEVE, J., VEALL, N. & WOOTTON, R. 225-230
- Rectum, comparison of methods for measurement of potential difference in, in man MOHAMED, F., MCSORLEY, P. & WARREN, D.J. 231-234
- Renal failure, acute, glycerol-induced, protective effect of prostaglandin E<sub>2</sub> in, in rats WERB, R., CLARK, W.F., LINDSAY, R.M., JONES, E.O.P., TURNBALL, D.I. & LINTON, A.L. 505-507
- Renal failure, acute, renal vasoconstriction in, induced by glycerol in the rat HOFBAUER, K.G., BAUEREISS, K., KONRADS, K. & GROSS, F. 249-252
- Renal hypertension, *see* Hypertension, renal
- Renal insufficiency, chronic, effects of, on glutamine metabolism in man TIZIANELLO, A., DE FERRARI, G., GARIBOTTO, G. & GURRERI, G. 391-397
- Renal tubular reabsorption, sickle-cell anaemia nephropathy and, of phosphate DE JONG, P.E., DE JONG-VAN DEN BERG, L.T.W. & STATIUS VAN EPS, L.W. 429-434
- Renin-angiotensin system, effect of glycerol-induced acute renal failure on, in isolated perfused rat kidney HOFBAUER, K.G., BAUEREISS, K., KONRADS, K. & GROSS, F. 249-252

- Renin-angiotensin system, haemodynamics of orally-active converting enzyme inhibitor (SQ 14225) and, in hypertensive patients CODY, R.J., JR, TARAZI, R.C., BRAVO, E.L. & FOUAD, F.M. 453-459
- Renin, aortic, partial characterization of, in spontaneously hypertensive rats BARRETT, J.D., EGGENA, P. & SAMBHI, M.P. 261-270
- Renin, assay and molecular weight of, in human plasma and amniotic fluid SHULKES, A.A., GIBSON, R.R. & SKINNER, S.L. 41-50
- Renin, hepatic elimination of, in man HESSE, B., ANDERSEN, E.D. & RING-LARSEN, H. 377-382
- Renin, plasma, urinary kallikrein excretion and activity of, in patients with essential hypertension and aldosteronism LECHI, A., COVI, G., LECHI, C., CORGNATI, A., AROSIO, E., ZATTI, M. & SCURO, L.A. 51-55
- Renin, release of, from renin granules in the dog FUNAKAWA, S., HIGASHIO, T. & YAMAMOTO, K. 11-14
- Renography, quantitative, renal transport in patients with essential hypertension studied by, with sodium *o*-[<sup>131</sup>I]iodohippurate (Hippuran) REEVE, J., CRAWLEY, J.C.W., GOLDBERG, A.D., KENNARD, C., KENNY, D. & SMITH, I.K. 241-247
- Renography, transit, comparison of determination of intrarenal plasma flow by microsphere method and by, in the rabbit and rat WILKINSON, S.P., BERNARDI, M., PEARCE, P.C., BRITTON, K.E., BROWN, N.G.J., POSTON, L., CLARKE, M., JENNER, R. & WILLIAMS, R. 277-283
- Respiration, effect of propranolol on, in normal subjects PATRICK, J.M., TUTTY, J. & PEARSON, S.B. 491-497
- Reverse tri-iodothyronine, formation of, and tri-iodothyronine from thyroxine in isolated rat renal tubules HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. 567-572
- Rheumatoid arthritis, changes in collagen of synovial membrane in, and effect of D-penicillamine LOVELL, C.R., NICHOLLS, A.C., JAYSON, M.I.V. & BAILEY, A.J. 31-40
- Saliva, survey of kallikrein and amylase in, of schoolgirls throughout the menstrual cycle BHOOLA, K.D., MATTHEWS, R.W. & ROBERTS, F. 561-565
- Salt-free diet, effect of, on plasma and extracellular volumes of hypertensive rats before and after renal clipping MOURANT, A.J. 81-87
- Sepsis, galactose and hepatic metabolism in malnutrition and, in man ROYLE, G., KETTLEWELL, M.G.W., ILIC, V. & WILLIAMSON, D.H. 199-204
- Serotonin, effect of, on secretion of thyrotrophin (Editorial Review) SCANLON, M.F., REES SMITH, B. & HALL, R. 129-138
- Short-circuit current, lack of effect of blood-volume expansion on, across an isolated toad skin incorporated in the circulation of a rat QUERIDO, D. & ISAACSON, L.C. 15-21
- Sickle-cell anaemia, tubular reabsorption of phosphate in nephropathy of DE JONG, P.E., DE JONG-VAN DEN BERG, L.T.W. & STATIUS VAN EPS, L.W. 429-434
- Sinus rhythm, use of digitalis glycosides in (Editorial Review) GUZ, A. & MCHAFFIE, D. 417-421
- Sleep, measurement of mucociliary clearance in normal subjects during BATEMAN, J.R.M., PAVIA, D. & CLARKE, S.W. 523-527
- Smooth muscle, *see* Muscle, smooth
- Sodium balance, interrelationship of aortic renin and, in spontaneously hypertensive rats BARRETT, J.D., EGGENA, P. & SAMBHI, M.P. 261-270
- Sodium, fluxes of, in leucocytes from patients with fulminant hepatic failure ALAM, A.N., POSTON, L., WILKINSON, S.P., GOLINDANO, C.G. & WILLIAMS, R. 355-363
- Sodium *o*-iodohippurate, <sup>131</sup>I-labelled, abnormalities of renal transport of, in essential hypertension REEVE, J., CRAWLEY, J.C.W., GOLDBERG, A.D., KENNARD, C., KENNY, D. & SMITH, I.K. 241-247
- Sodium ion, effect of, on urinary excretion of dopamine in man and rat BALL, S.G., OATES, N.S. & LEE, M.R. 167-173
- Sodium pump, liver oxidative capacity in rats and VIDELA, L.A. 341-347
- Somatostatin, effect of, on secretion of thyrotrophin (Editorial Review) SCANLON, M.F., REES SMITH, B. & HALL, R. 129-138
- SQ 14225, effect of, on haemodynamics in hypertensive patients CODY, R.J., JR., TARAZI, R.C., BRAVO, E.L. & FOUAD, F.M. 453-459

- Starvation, effect of, on biliary excretion of dibromosulphthalein in the unanaesthetized rat VONK, R.J., SCHOLTENS, E. & STRUBBE, J.H. 399-406
- Strontium (<sup>85</sup>Sr), post-mortem migration of, in rat and rabbit and its effect on estimates of bone uptake TOTHILL, P. & MACPHERSON, J.N. 221-223
- Synovial membrane, changes in collagen of, in rheumatoid arthritis and effect of D-penicillamine LOVELL, C.R., NICHOLLS, A.C., JAYSON, M.I.V. & BAILEY, A.J. 31-40
- Testosterone, effect of, on plasma renin activity in male and female rats HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. 301-307
- Tetracycline, vitamin B<sub>12</sub> absorption during therapy with, in tropical malabsorption TOMKINS, A.M., SMITH, T. & WRIGHT, S.G. 533-539
- Thymus, biphasic changes in structure of, during evolving hypertension in the rat CHATELAIN, R.E. & FERRARIO, C.M. 149-156
- Thyroid hormones, effect of, on results of acute ethanol administration on liver oxidative capacity in rats VIDELA, L.A. 341-347
- Thyroid-stimulating hormone, *see* Thyrotrophin
- Thyrotrophin, neuroregulation and clinical applications of (Editorial Review) SCANLON, M.F., REES SMITH, B. & HALL, R. 1-10, 129-138
- Thyroxine, formation of tri-iodothyronine and reverse tri-iodothyronine from, in isolated rat renal tubules HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. 567-572
- Tracers, problems in analysis of dynamic studies with (Editorial Review) REEVE, J., VEALL, N. & WOOTTON, R. 225-230
- Triamterene, acute effects of, on potassium exchange, mechanical function and action potential in rabbit myocardium POOLE-WILSON, P.A., COBBE, S.M. & FRY, C.H. 555-559
- Triglyceride, effect of insulin and glucagon on plasma free fatty acids and ketone bodies in man after infusion of ELKELES, R.S., CHALMERS, R.A. & HAMBLEY, J. 499-504
- Triglycerides, parallel changes between lipoprotein lipase activating capacity and concentrations of, in serum of rats and ferrets during development and dietary manipulation CRYER, A. & JONES, H.M. 121-123
- Tri-iodothyronine, formation of, and reverse tri-iodothyronine from thyroxine in isolated rat renal tubules HEYMA, P., LARKINS, R.G., STOCKIGT, J.R. & CAMPBELL, D.G. 567-572
- Tropical malabsorption, vitamin B<sub>12</sub> absorption during antibiotic therapy in TOMKINS, A.M., SMITH, T. & WRIGHT, S.G. 533-539
- Tubular function, kidney, study of, in perfused isolated rat kidney (Editorial Review) ROSS, B.D. 513-521
- Tubular reabsorption, proximal, identification of a delivery-related influence on, during expansion with hyperoncotic albumin in the rat DONOHUE, J.F., LEFAVOUR, G.S., CORTELL, S. & GENNARI, F.J. 369-376
- Uraemia, effect of, on synthesis of adenosine 3':5'-cyclic monophosphate in rat brain homogenates TURNER, G.A. & WARDLE, E.N. 271-275
- Urea, plasma, changes in concentration of, after temporary ischaemia of kidney in the rat KUNEŠ, J., ČAPEK, K., STEJSKAL, J. & JELÍNEK, J. 365-368
- Urea, transfer of, in guinea-pig foetal placenta HORN, J. 329-333
- Vasopressin, effect of, on plasma renin activity in male and female rats HENDERSON, I.W., BALMENT, R.J. & OLIVER, J.A. 301-307
- Veins, role of resistance in, in determining fistular blood flow in patients with surgically created arterio-venous fistula WALLACE, W.F.M. & JAMISON, J.P. 349-353
- Venous admixture, revised standards for normal resting dead-space volume and HARRIS, E.A., SEELYE, E.R. & WHITLOCK, R.M.L. 125-128
- Ventilation, response of, to inhaled carbon dioxide PROWSE, K., DUVIVIER, C., PESLIN, R. & SADOUL, P. 309-316
- Vibration, effect of, on blood flow in rabbit skeletal muscle HUDLICKÁ, O. & WRIGHT, A. 471-476

- Vitamin B<sub>12</sub>, absorption of, during antibiotic therapy in tropical malabsorption TOMKINS, A.M., SMITH, T. & WRIGHT, S.G. 533-539
- Vitamin D, intestinal absorption and tissue retention of cadmium and calcium in rats given an active metabolite of LORENTZON, R. & LARSSON, S.-E. 195-198
- Vivonex, small-intestinal changes induced in rats by a diet of NELSON, L.M., CARMICHAEL, H.A., RUSSELL, R.I. & LEE, F.D. 509-511
- Volume, blood, expansion of, short-circuit current across an isolated toad skin incorporated in the circulation of a rat QUERIDO, D. & ISAACSON, L.C. 15-21
- Volume expansion, identification of a delivery-related influence on proximal tubular reabsorption during, with hyperoncotic albumin in the rat DONOHOE, J.F., LEFABOUR, G.S., CORTELL, S. & GENNARI, F.J. 369-376
- Whole-body counting, vitamin B<sub>12</sub> absorption during antibiotic therapy in tropical malabsorption measured by TOMKINS, A.M., SMITH, T. & WRIGHT, S.G. 533-539
- Xenon(<sup>133</sup>Xe), clearance of, as measurement of skeletal muscle blood flow in baboons with obstructive jaundice BOMZON, L., WILTON, P.B. & MCCALDEN, T.A. 109-112