

PUBLISHED BY
THE MEDICAL RESEARCH SOCIETY AND THE BIOCHEMICAL SOCIETY

© The Medical Research Society and the Biochemical Society 1982
ISSN 0143-5221

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

Volume 63

AUTHOR INDEX

- ALLAN, R.N. 373-380
 ALLEN, A. 187-195
 ALON, U. 59-64
 ANDREWS, P.L.R. 169-173
 ATKINS, G.L. 405-414
 BALLARD, F.J. 421-427
 BARER, G.R. 497-503
 BARNES, J.L.C. 461-472
 BARNES, N.D. 461-472
 BARNES, P. 401-404
 BARNETT, D.B. 97-105
 BARTHOLOMEW, T.C. 65-73
 BARTTER, F.C. 397-400
 BAYLEY, S. 33-42
 BECK, D. 447-453
 BECKAGE, M. 393-396
 BENNETT, E.D. 361-366
 BENNETT, T. 301-310
 BERANT, M. 59-64
 BERETTA-PICCOLI, C. 257-270, 325-328
 BETTER, O.S. 59-64
 BIANCHETTI, M.G. 325-328
 BILLING, B.H. 65-73
 BING, R.F. 121-125
 BISHOP, H. 373-380
 BLAIR, J.A. 373-380
 BLANCHET, L. 29-32
 BODDY, K. 257-270
 BOEHRINGER, K. 325-328
 BOER, P. 47-51
 BÖNNER, G. 349-354, 447-453
 BRASH, H.M. 17-22
 BRON, A.J. 211-216
 BROWN, J.J. 257-270
 BROWN, W.B. 271-274
 BROYER, M. 539-548
 BRUNNER, H.R. 333-338
 BRUNO, M. 381-385
 BULL, H.J. 197-203
 BURDON, J.G.W. 11-15
 BURGOYNE, J.L. 421-427
 BYLUND-FELLENUS, A.-C. 293-299
 CALVERLEY, P.M.A. 17-22
 CAMPBELL, E.J.M. 11-15
 CAMPBELL, I.W. 17-22
 CAPACI, M.T. 455-460
 CATANZARO, O.L. 217-218
 CICCARELLI, M. 285-292
 CLARKE, B.F. 17-22
 CLARKSON, E.M. 415-420
 CLIFTON-BLIGH, P. 367-372
 COLTART, D.J. 197-203
 CONN, M.L. 127-135
 CORNET, F. 145-152
 COULL, A. 573-576
 COUNSILMAN, A.C. 429-435
 COURNOT-WITMER, G. 539-548
 CROSS, S.M.C. 429-435
 CUMMING, A.M.M. 257-270
 CUNDY, T. 145-152
 CURRY, S.H. 75-80
 DAHLENBURG, G.W. 421-427
 DAVIE, M.W.J. 461-472
 DAVIES, D.L. 257-270
 DAVIS, M. 75-80
 DEEG, M. 447-453
 DE JONG, P.E. 53-58
 DE JONG-VAN DEN BERG, L.T.W. 53-58
 DE WARDENER, H.E. 415-420
 DE ZEEUW, D. 53-58
 DOBBS, R.J. 33-42
 DOBOZY, A. 421-427
 DONKER, A.J.M. 53-58
 DORHOUT MEES, E.J. 47-51
 DORNAN, T.L. 211-216
 DOUGLAS, N.J. 137-143
 DULFANO, M.J. 393-396
 EAST, B.W. 257-270
 EDMUNDS, A.T. 107-113
 EDWARDS, R.H.T. 161-167, 519-523
 EMBERSON, C. 461-472
 EMMERSON, B.T. 429-435
 ENDEMAN, H.J. 47-51
 EPSTEIN, M. 555-563, 565-571
 ESLER, M. 321-323
 EVANS, S. 437-440
 EWING, D.J. 17-22
 FARIS, I.B. 115-119
 FAVRE, H. 317-319
 FITZGERALD, A. 421-427
 FLENLEY, D.C. 17-22
 FRASER, D.R. 311-316
 FRASER, R. 257-270
 FRUTTERO, B. 381-385
 FUJIMOTO, S. 251-255
 FUKUCHI, S. 331-332
 GALE, E.A.M. 301-310
 GANTEN, D. 349-354
 GARDNER, M.L.G. 405-414
 GARNER, A. 187-195
 GATTA, A. 387-392
 GIBBS, G.P. 175-185
 GILL, G.W. 497-503
 GILMORE, I.T. 197-203
 GODFREY, S. 107-113
 GORDON, R.B. 429-435
 GOTOH, M. 331-332
 GOURJON, M. 317-319
 GREEN, J.H. 301-310
 GREEN, J.R. 153-160
 GRIFFIN, G.E. 1-10
 GROSS, F. 349-354, 447-453
 GULAK, P.V. 43-45
 GÜLLNER, H.G. 397-400
 HABIB, R. 539-548
 HAIGH, J.W. 437-440
 HALLIDAY, D. 485-496, 519-523
 HANDA, M. 275-279
 HANSKY, J. 321-323
 HANSON, M.A. 505-511
 HASHMONAI, M. 59-64
 HAYES, P.A. 127-135
 HEADING, R.C. 231-235
 HESP, R. 153-160
 HEYNEN, G. 145-152
 HIGGS, C.M.B. 513-517
 HILLON, P. 29-32
 HODGES, J.R. 339-347
 HOWELL, S. 161-167
 HUGHES, M. 219-221
 HUGHES, R.D. 237-242
 HULLIN, R.P. 549-554
 HULME, P. 153-160
 HURWITZ, M.L. 573-576
 IDSTRÖM, J.-P. 293-299
 ITO, K. 251-255

- JAMIESON, G.G. 115-119
 JARVIS, A. 573-576
 JOHNSTON, D.G. 437-440
 JONES, A.W. 441-445
 JONES, D.A. 161-167
 JONES, N.L. 87-92
- KAJI, H. 251-255
 KANG, E.S. 455-460
 KANIS, J.A. 145-152
 KAWABE, H. 275-279
 KEELING, P.W.N. 223-224
 KERSS, S. 187-195
 KILLIAN, K.J. 11-15
 KITAS, G. 373-380
 KLEINKNECHT, C. 539-548
 KLIMIUK, P.S. 577-580
 KONDO, K. 275-279
 KORONES, D.N. 455-460
 KURASAKI, M. 251-255
- LAKER, M.F. 437-440
 LAOUARI, D. 539-548
 LASZLO, G. 513-517
 LAWSON, A.M. 65-73
 LAWSON, D.E.M. 461-472
 LAYCOCK, J.F. 525-532,
 533-538
 LEBREC, D. 29-32
 LEE, V.Y. 219-221
 LEVER, A.F. 257-270
 LIFSCHITZ, M. 555-563, 565-
 571
 LINARI, F. 381-385
 LINK, L. 325-328
 LITVINOV, I.S. 43-45
 LUCAS, M.L. 373-380
 LUDBROOK, J. 115-119
 LUK, C.K. 393-396
 LUND, P. 225-230
- MACDONALD, I.A. 301-310
 MACLENNAN, A.H. 421-427
 MACNEE, W. 137-143
 MAGGIORE, Q. 285-292
 MANSELL, M.A. 223-224
 MARANGELLA, M. 381-385
 MARIGOLD, J.H. 197-203
 MARIN-GREZ, M. 349-354,
 447-453
 MATTHEWS, D.E. 519-523
 MAWER, E.B. 577-580
 MCAREAVEY, D. 271-274
 MCCONNELL, J.B. 75-80
 MCCULLOCH, A.J. 437-440
 MCGRATH, B.P. 321-323
 MCNICOL, G.P. 205-209
- MELAMED, J.R. 573-576
 MERKEL, C. 387-392
 MILANI, L. 387-392
 MILLWARD, D.J. 519-523
 MIZUNO, K. 331-332
 MOHAMMED, F.H. 497-503
 MORDECHOVITZ, D. 59-64
 MORGAN, D.B. 549-554
 MORRIS, B.J. 367-372
 MORRISON, J.B. 127-135
 MORTON, J.J. 325-328
 MOUNIER, F. 539-548
 MULLINS, R. 211-216
- NAHORSKI, S.R. 97-105
 NICHOLSON, W.E. 397-400
 NYE, P.C.G. 505-511
- OBIKA, L.F.O. 93-96
 OEI, H.Y. 47-51
 ORDE-PECKAR, C. 211-216
 ORLOV, S.N. 43-45, 281-284
 ORTH, D.N. 397-400
- PACK, R.J. 23-28
 PADFIELD, P.L. 257-270
 PASTERNAK, C.A. 1-10
 PATERSON, A. 145-152
 PATON, R.C. 205-209
 PELL, J. 23-28
 PENNEY, M.D. 549-554
 PETERS, D.K. 175-185
 PHIPPS, R.J. 23-28
 POON, P.Y.W. 211-216
 POSEN, S. 367-372
 POSTNOV, Y.V. 43-45, 281-
 284
 POSTON, L. 237-242, 243-
 249
 PRENEN, J.A.C. 47-51
 PRIDE, N.B. 401-404
 PUSSELL, B. 175-185
- RAMACHANDRAN, M. 555-
 563
 RAPPAPORT, K. 555-563,
 565-571
 RAWLINS, M.D. 81-85
 RECORD, C.O. 81-85
 REEVE, J. 153-160, 175-185,
 329-330
 RENNIE, M.J. 485-496, 519-
 523
 RICHARDSON, P.S. 23-28
 RICHARDSON, R.B. 513-517
 ROBERTS, G.E. 461-472
- ROBERTSON, J.I.S. 257-270,
 271-274
 ROBINSON, B.F. 33-42
 ROBINSON, B.G. 367-372
 ROSENDORFF, C. 573-576
 ROUSSOS, C. 161-167
 RUOL, A. 387-392
 RUSSELL, R.G.G. 145-152
 RUSE, W. 223-224
- SACKNER, M.A. 473-483
 SAITO, K. 251-255
 SAITO, T. 251-255
 SANDHU, J.S. 311-316
 SANDLE, G.I. 81-85
 SARGENT, A. 373-380
 SARUTA, T. 275-279
 SCHAECHTELIN, G. 349-354
 SCHERSTEN, T. 293-299
 SCHNEIDER, A.W. 473-483
 SCHNEIDER, E.G. 93-96
 SCHNEIDER, R.E. 373-380
 SCHOUTEN, H. 53-58
 SEALE, J.P. 219-221
 SEEBER, A.M. 217-218
 SEMPLE, P.F. 257-270
 SETCHELL, K.D.R. 65-73
 SEWELL, R.B. 237-242, 243-
 249
 SHIRLEY, D.G. 525-532,
 533-538
 SKINNER, J. 525-532
 SPECK, G. 349-354
 SPOOR, S.M. 47-51
 SRINIVASAN, D.P. 549-554
 STATIUS VAN EPS, L.W. 53-
 58
 STEPHENS, W.P. 577-580
 STERN, A.I. 321-323
 STRADLING, J.R. 401-404
 SUDLOW, M.F. 137-143
 SUGGETT, A.J. 497-503
 SUMMERFIELD, J.A. 65-73
 SUTTON, J.R. 87-92
 SUZUKI, H. 275-279
 SWALES, J.D. 121-125
 SWART, S. 121-125
- TAYLOR, J.L. 577-580
 TAYLOR, T.V. 169-173
 TEKADE, N. 455-460
 TEMPLE, D.M. 219-221
 THOMAS, T.H. 549-554
 THOMPSON, R.P.H. 197-203,
 223-224
 THURSTON, H. 121-125
 TIGHE, D. 361-366

- TINDALL, H. 205–209
TOBIN, M.J. 473–483
TOEWS, C.J. 87–92
TOMAS, F.M. 421–427
TOOLEY, M. 107–113
TORRANCE, R.W. 505–511
TURINI, G.A. 333–338
TURNER, R.C. 211–216
- VILA, S.B. 217–218
- WALFORD, S. 301–310
WALKER, P.M. 293–299
- WALTER, S.J. 525–532, 533–538
WARD, A. 81–85
WARD, G.R. 87–92
WARRINGTON, S. 577–580
WEGG, W. 361–366
WEIDMANN, P. 257–270, 325–328
WELBY, J. 437–440
WILKINSON, S.P. 243–249
WILLIAMS, E.D. 257–270
WILLIAMS, I.P. 23–28
- WILLIAMS, R. 75–80, 237–242, 243–249
WILSON, M.G. 397–400
WOLMAN, S.L. 519–523
WONG, P.C. 355–360
WOOTEN, O. 393–396
WRAITH, P.K. 17–22
WRIGHT, N. 23–28
WRIGHT, R. 339–347
- ZIMMERMAN, B.G. 355–360
ZOCALI, C. 285–292

Volume 63

SUBJECT INDEX

First and last page numbers of papers to which entries refer are given.

Page numbers marked with an asterisk refer to Editorial Reviews.

- Absorption, intestinal
 [³H]cellobiotol 311–316
 folic acid 373–380
 [¹⁴C]mannitol 311–316
 oxalate 381–385
 propranolol 81–85, 373–380
 rate constants 373–380
- N*-Acetylcysteine, gastric mucus 187–195
- Activation analysis 257–270
- Adenosine di- and tri-phosphate, muscle 87–92
- Adenosine triphosphate, natriuresis 415–420*
- Adenylate cyclase 97–105*
- Adrenaline, biosynthesis in hypertension 573–576
- Adrenergic resistance, airway responses 513–517
- α -Adrenoceptor
 bronchial secretion 23–28
 function and regulation 97–105*
- β -Adrenoceptor
 agonists 137–143
 bronchial secretion 23–28
 function and regulation 97–105*
- Airways
 resistance 137–143, 513–517
 salbutamol 513–517
 secretion 23–28
- Aldosterone
 angiotensin II 325–328
 congestive heart failure 333–338*
- Amniocentesis, protein breakdown 421–427
- Angiotensin II
 aldosterone 325–328
 intraventricular injection 275–279
- Angiotensin-converting enzyme 331–332
- Anticonvulsant drugs, skin vitamin D 461–472
- Antidiuresis, hydrochlorothiazide 525–532, 533–538
- Antiplatelet therapy 205–209
- Argine vasopressin, water deprivation 549–554
- Arterioles
 primary hypertension 33–42
 sodium nitroprusside 33–42
 veramil 33–42
- Asian immigrants, serum 25-hydroxyvitamin D 577–580
- Aspirin, platelet survival 205–209
- Asthma, ciliostasis 393–396
- Autonomic dysfunction 285–292, 321–323
- Baroreflex, exercise 115–119
- Benoxaprofen, lung slow-reacting substances 219–221
- Bile acids
 hepatic extraction 197–203
 serum and skin interstitial fluid 65–73
 sulphates 65–73
- Blood flow
 hepatic 29–32
 rat hindlimb 293–299
 renal 355–360
- Blood pressure
 exercise 115–119
 sodium and dopamine response 93–96
- Bone formation 153–160
- Breath, ethanol concentration 441–445
- Breathing
 hypoxic drive 17–22
 loaded 1–9*
 pattern, cigarette smoking 473–483
- Bromocriptine, vasopressin 367–372
- Bronchi, secretion 23–28
- Bronchodilatation 137–143
- Calcitonin secretion rate 145–152
- Calcium
 absorption 329–330
 bone formation 153–160
 erythrocyte membrane 281–284
 hyperoxaluria 381–385
 low phosphorus diet 539–548
 metabolism 325–328
- Calcium stone disease, hyperoxaluria 381–385
- Captopril
 congestive heart failure 333–338*
 renal renin 355–360
- Carbon dioxide, cerebral vascular nociceptors 505–511
- Cardiac output, transthoracic impedance cardiography 107–113
- Cardiorespiratory arrest 17–22
- Catecholamines, thermoregulation 301–310
- Carotid sinus reflex 115–119
- [³H]Cellobiotol, intestinal absorption 311–316
- Cell surface and disease 1–9*
- Cerebral arteries, nociceptors 505–511
- Chemosensitivity 17–22
- Chenodeoxycholic acid, hepatic extraction 197–203

- Cholaemia, renal function and haemodynamics 59–64
- Cholecalciferol, skin synthesis 461–472
- Cholestasis 65–73
- Cigarette smoking, breathing pattern 473–483
- Cilia inhibition 393–396
- Cirrhosis, liver
 decompensated 555–563
 diazepam 75–80
 proteinuria 387–392
- Clearance, oxalate 47–51
- Coeliac disease
 absorption 373–380
 propranolol absorption 81–85
- Coenzyme A esters, liver 455–460
- Cold immersion 127–135
- Compartmental analysis 175–185
- Complement 175–185
- Conduction velocity, vagus nerve 169–173
- Congestive heart failure 333–338*
- Converting enzyme inhibitors 355–360
- Corticotropin, pain 397–400
- Cortisol, pain 397–400
- Creatine, exercise 87–92
- Creatinine
 myofibrillar protein breakdown 421–427
 urinary excretion 421–427
- Crush fracture osteoporosis 153–160
- Cystinuria, zinc 223–224
- Deoxycorticosterone acetate, erythrocyte membrane 43–45
- Diabetes insipidus, electrolyte balance 525–532, 533–538
- Diabetes mellitus
 blood viscosity 211–216
 cardiorespiratory arrest 17–22
 hydrochlorothiazide 525–532, 533–538
 platelet survival 205–209
- Dialysis, serum 237–242
- Diazepam, chronic liver disease 75–80
- 16,16-Dimethylprostaglandin E₂, gastric mucus 187–195
- Dipyridamole, platelet survival 205–209
- Disaccharide, intestinal absorption 311–316
- Diuretics
 hypertension 121–125
 renal kallikrein–kinin system 447–453
- Dopamine
 blockade 361–366
 sodium and pressor effect 93–96
- Drug absorption 373–380
- Dysmyelinating diseases 1–9*
- Electrolyte balance, diabetes insipidus 525–532, 533–538
- β -Endorphin/ β -lipotropin, pain 397–400
- Enteropathy, experimental 311–316
- Erythrocyte
 calcium-binding in hypertension 281–284
 membrane 43–45, 281–284
 superoxide dismutase 251–255
- Erythrocyte membrane
 spontaneous hypertension 43–45
 structure 281–284
- Essential hypertension, electrolytes 257–270
- Ethanol, exhaled 441–445
- Exercise
 aerobic and anaerobic 87–92
 cardiac output 107–113, 115–119
 muscle blood flow 293–299
- Expiration, ethanol concentrations 441–445
- Extracellular fluid
 diabetes insipidus 525–532
 thiazide diuretics 121–125
- Fasting, muscle protein synthesis 519–523
- Fatigue, muscle 161–167
- Fatty acid emulsion, prostaglandin synthesis 565–571
- Feeding
 gastric mucus 187–195
 muscle protein synthesis 519–523
- Fibrinogen, diabetes mellitus 211–216
- Fick method, indirect 107–113
- Fluorescent probe, erythrocyte membrane structure 43–45
- Folic acid, intestinal absorption 373–380
- Forearm resistance vessels, primary hypertension 33–42
- Fursemide, renal kallikrein–kinin system 447–453
- Fulminant hepatic failure 237–242
- Gas chromatography–mass spectrometry, bile acid profiles 65–73
- Gastric emptying 231–235
- Gastric mucus 187–195
- Gastrocnemius muscle, blood flow 293–299
- Glucose
 kinetics 437–440
 metabolism 437–440
 turnover 437–440
- [6,6-²H]Glucose turnover 437–440
- Glycaemia, control 211–216
- Glycogen, muscle 87–92
- Glycoproteins, bronchial secretion 23–28
- Goldblatt hypertension
 adrenaline enzyme inhibitor 573–576
 exchangeable sodium 271–274
- Gout, lymphocyte purine synthesis 429–435
- Gut, immune responses 339–347*
- Haematocrit *see* Packed cell volume
- Haemodialysis 237–242, 285–292

- Haemodynamics, cholaemia 59–64
 Haemoglobin, glycosylated 211–216
 Headache, vascular nociceptors 505–511
 Heart rate
 exercise 115–119
 haemodialysis 285–292
 Heat storage 127–135
 Heat transfer, respiratory 127–135
 Hormones, congestive heart failure 333–338*
 Hydrochlorothiazide, diabetes insipidus 525–532, 533–538
 Hydroxycholecalciferol, Asian immigrants 577–580
 Hypercholesterolaemia 1–9*
 Hyperplasia 1–9*
 Hypertension
 diuretics 121–125
 electrolytes 257–270
 erythrocyte membrane 43–45
 low-renin 257–270
 phentolamine 33–42
 phenylethanolamine *N*-methyltransferase 573–576
 vascular smooth muscle 33–42
 Hypertension, experimental
 Goldblatt two kidney, one clip 271–274
 portal 29–32
 renal 349–354
 Hypoglycaemia, insulin 301–310, 321–323
 Hypotension
 cholaemia 59–64
 postural 321–323
 Hypothermia 127–135
 Hypothyroidism, myofibrillar protein breakdown 421–427
 Hypoventilation, lung gas exchange 497–503
 Hypoxia, transient 17–22
 Hypoxic pulmonary vasoconstriction 497–503

 Immune responses, gut and liver 339–347*
 Immunoglobulin A, synthesis and transport 339–347*
 Impedance cardiography 107–113
 Inhalation rewarming 127–135
 Indomethacin, water excretion in sickle cell anaemia 53–58
 Inspiratory loads 11–15
 Inspired air, alcohol exhalation 441–445
 Insulin, hypoglycaemia 301–310, 321–323
 Intermittent claudication 293–299
 Intestinal transport 405–414*
 Intraventricular angiotensin II 275–279
 Iodide, renal clearance 175–185
 Ipratropium 137–143
 Iproveratril, vascular smooth muscle in hypertension 33–42

 Isotope analysis 485–496*
 Ischaemic pain 397–400

 Jaundice, renal function and haemodynamics 59–64
 Jejunum
 propranolol absorption 81–85
 surface pH 373–380
 Juxtaglomerular apparatus 121–125

 Kallikrein, renal excretion 217–218
 Kallikrein–kinin system, renal hypertension 349–354
 Kidney
 blood flow 355–360
 cholaemia 59–64
 frusemide 447–453
 hydrochlorothiazide 533–538
 kallikrein 217–218, 349–354
 [¹⁴C]oxalate clearance 47–51
 phosphorus, dietary 539–548
 prostaglandin E 555–563
 renal nerves 275–279
 renin 349–354
 resistance 549–554
 sodium 555–563
 thiazides 533–538
 water excretion 53–58
 Kidney disease, nephrosis 317–319
 Kinetic analysis of transport processes 405–414*
 Kininogen 447–453
 Krebs, Sir Hans 225–230

 Lactate, muscle 87–92
 Leucocyte
 adrenoceptors 97–105*
 sodium transport 237–242, 243–249
 γ -Lipotropin, pain 397–400
 Linoleic acid, prostaglandin production 565–571
 Lipoxigenase inhibitor 219–221
 Lithium treatment, water deprivation 549–554
 Liver
 bile acid extraction 197–203
 blood flow 29–32
 cholaemia 59–64
 coenzyme A esters 455–460
 immune responses 339–347*
 renal function 387–392
 Liver disease
 cirrhosis 75–80, 387–392
 cirrhosis, decompensated 555–563
 fulminant hepatic failure 237–242
 Reye's syndrome 455–460
 Lower-body positive pressure, natriuresis 361–366

- Lung
 hypoxic vasoconstriction 497–503
 slow-reacting substances 219–221
 volumes 107–113
Lymphocytes, prime synthesis in gout 429–435
- [¹⁴C]Mannitol, intestinal absorption 311–316
- Mass spectrometry
 bile acid profiles 65–73
 glucose kinetics 437–440
 stable isotopes 485–496*
- Membrane
 cell 1–9*
 erythrocyte 43–45, 281–284
- Meningeal blood vessels, carbon dioxide 505–511
- Metabolic clearance rate 145–152
- 3-Methylhistidine, urinary excretion 421–427
- Methylxanthines, muscle fatigue 161–167
- Metoprolol, body temperature 301–310
- Mineralocorticoid escape 243–249
- Mucus
 bronchial secretion 23–28
 gastric gel 187–195
- Muscle, skeletal
 exercise 293–299
 low-frequency fatigue 161–167
 protein synthesis, stable isotope techniques 519–523
 pyruvate dehydrogenase 87–92
- Natriuresis
 frusemide 447–453
 hormone 243–249, 317–319, 415–420*
 lower-body positive pressure 361–366
- Natriuretic factor 243–249, 317–319, 415–420*
- Neoplasia 1–9*
- Nephrotic syndrome 317–319
- Nerve conduction velocities 169–173
- Nifedipine, angiotensin II 325–328
- Nitroprusside, vascular smooth muscle in hypertension 33–42
- Noradrenaline, conversion in hypertension 573–576
- Nutrition, uraemia 539–548
- Osteomalacia 577–580
- Osteoporosis 153–160
- Oxalate
 intestinal hyperabsorption 381–385
 renal clearance 47–51
- 6-Oxoprostaglandin F_{1α}, linoleic acid 565–571
- Packed cell volume, diabetes mellitus 211–216
- Paget's disease 145–152
- Pain, ischaemic, opioid peptides 397–400
- Pancreatic polypeptide 321–323
- Pepsin, gastric mucus 187–195
- pH, jejunal surface 373–380
- Phentolamine, primary hypertension 33–42
- Phenyl diguanide, respiration 505–511
- Phosphocreatine, muscle 87–92
- Phosphorus, low intake and uraemia 539–548
- Plasma membrane 1–9*
- Plasma protein turnover 175–185
- Plasma renin activity
 congestive heart failure 333–338*
 diuretics in hypertension 121–125
 renal hypertension 349–354
- Platelet survival, diabetes mellitus 205–209
- Polydipsia, water deprivation 549–554
- Polypeptide, pancreatic 321–323
- Polyuria, water deprivation 549–554
- Portal hypertension 29–32
- Potassium, total body 257–270
- Prematurity, myofibrillar protein breakdown 421–427
- Pro-opiocortin, pain 397–400
- Propranolol
 body temperature 301–310
 hepatic blood flow 29–32
 intestinal absorption 81–85, 373–380
 withdrawal syndrome 97–105*
- Prostaglandin E
 decompensated cirrhosis 555–563
 linoleic acid 565–571
- Prostaglandin, renal 53–58
- Protein
 breakdown in newborn infants 421–427
 plasma turnover 175–185
 synthesis, muscle 519–523
- Proteinuria, liver cirrhosis 387–392
- Pruritus, bild acids 65–73
- Psychomotor tests, liver cirrhosis 75–80
- Psychophysics, respiration 11–15
- Pulmonary disease, ciliostasis by sputum 393–396
- Purine synthesis, lymphocytes, in gout 429–435
- Pyruvate dehydrogenase, muscle 87–92
- Rate constants, absorption 373–380
- Reaction time, respiratory loads 11–15
- Renal concentrating capacity, sickle cell anaemia 53–58
- Renal diluting capacity, sickle cell anaemia 53–58
- Renal nerves, angiotensin II 275–279
- Renal plasma flow, frusemide 447–453
- Renal prostaglandin E 555–563
- Renin
 congestive heart failure 333–338*
 renal 349–354
- Renin-angiotensin system 355–360

- Respiration, cerebral vascular nociceptors 505–511
- Respiratory centre, smoking breathing pattern 473–483
- Respiratory inductive plethysmography 473–483
- Retinopathy, diabetes mellitus 205–209, 211–216
- Reye's syndrome, liver coenzyme A content 455–460
- Rickets, Asian immigrants 577–580
- Salbutamol
 airway calibre, normal subjects 137–143
 airway responsiveness 513–517
- Saralasin, congestive heart failure 333–338*
- Shivering 127–135
- Sickle cell anaemia, water excretion 53–58
- Skeletal muscle *see* Muscle, skeletal
- Skin, vitamin D synthesis 461–472
- Slow-reacting substances, lung 219–221
- Smooth muscle, vascular 33–42
- Sodium
 balance, diabetes insipidus 525–532, 533–538
 captopril 355–360
 dopamine 93–96
 exchangeable 257–270, 271–274
 excretion 317–319
 lower-body positive pressure 361–366
 total body 257–270
 transport, leucocyte 237–242, 243–249
- Soleus muscle, blood flow 293–299
- Specific enzyme activity, superoxide dismutase 251–255
- Sputum, ciliostasis 393–396
- Stable isotopes 437–440, 485–496*, 519–523
- Stomach
 gastric emptying 231–235
 mucus gel layer 187–195
- Stress, opioid peptides 397–400
- Strontium (⁸⁵Sr), bone formation 153–160
- Superoxide dismutase,
 erythrocyte 251–255
- Teprotide, congestive heart failure 333–338*
- Thermogenesis 127–135
- Thermoregulation, hypoglycaemia 301–310
- Thiazide diuretics 121–125
- Tracer kinetics, plasma protein turnover 175–185
- Tracer methodology 437–440, 485–496,* 519–523
- Transport, intestinal 405–414*
- Ultraviolet irradiation, skin vitamin D 461–472
- Uraemia
 autonomic lesion 285–292
 low phosphorus diet 539–548
- Urate, lymphocytes, gout 429–435
- Urinary calculi 381–385
- Ursodeoxycholic acid, hepatic extraction 197–203
- Vagotomy 169–173
- Vagus nerve, conduction velocities 169–173
- Vascular nociceptors 505–511
- Vascular resistance 115–119
- Vasopressin
 angiotensin II 275–279
 bromocriptine 367–372
- Ventilation, diabetic autonomic neuropathy 17–22
- Ventilation/perfusion (\dot{V}/\dot{Q}) ratios 497–503
- Viruses, cell surface 1–9*
- Viscosity, blood, diabetes mellitus 211–216
- Vitamin D
 deficiency, Asian immigrants 577–580
 skin 461–472
- Vitamin D₃, calcium absorption 329–330
- Volume homeostasis 555–563
- Water
 balance, diabetes insipidus 525–532, 533–538
 deprivation, lithium-treated patients 549–554
 excretion, sickle cell anaemia 53–58
 vapour, expired air ethanol 441–445
- Zinc, cystinuria 223–224

CORRECTION

Volume 62

page 532, Table 3, the value under 'Non-haem Fe' for patient no. 14 should read 0.096