

PUBLISHED BY
THE MEDICAL RESEARCH SOCIETY AND THE BIOCHEMICAL SOCIETY

© The Medical Research Society and the Biochemical Society 1983
ISSN 0143-5221

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

Volume 65

AUTHOR INDEX

- Abbs, M.T. 551-559
Abed, J. 579-588
Adam, K. 561-567
Adams, L. 383-392
Adrian, T.E. 365-371
Afford, S.C. 373-381
Ahonen, J. 547-550
Alberti, K.G.M.M. 539-545
Allen, J.M. 99-101
Anderson, R.J. 533-538
Arteaga, E. 487-490
Atherton, J.C. 449-455
Austen, K.F. 281-287
- Ballard, F.J. 209-215
Banks, R.O. 47-55
Barbason, H. 351-357
Bassey, E.J. 521-526
Bastia, D. 89-90
Bell, J. 533-538
Bennett, T. 19-25, 263-271,
469-474, 589-598
Bercoff, E. 203-205
Bidani, A. 335-336
Billing, B.H. 77-84
Bing, R.F. 33-36
Bistran, B.R. 499-505
Blackburn, G.L. 499-505
Bloom, S.R. 365-371
Boon, N.A. 207-208
Bottura, C. 297-302
Bresnahan, M.R. 255-261
Brice, J.M. 33-36
Bridges, C. 185-191
Brunner, H.R. 255-261
Burkart, F. 653-660
Burkinshaw, L. 407-414
Burrin, J.M. 539-545
Burston, D. 177-184
- Cairns, S.R. 645-652
Calverley, P.M.A. 65-69
Carlier, P.G. 351-357
Casson, I.F. 159-164
Charles, P. 415-422
Chitranukroh, A. 77-84
Chowdhury, V. 669-672
Christensen, N.J. 599-604
Chung, K.F. 289-296
Cirillo, M. 137-141
Clague, M.B. 165-175
- Clayden, D.A. 159-164
Colman, R.W. 121-126
Conway, F.J. 207-208
Cope, G.F. 159-164
Corazza, G.R. 89-90
Corey, E.J. 281-287
Cortese, C. 95-98
Cotes, J.E. 447-448
Cotter, T.G. 155-157
Croxatto, H. 487-490
Cucho, J.L. 479-486
Cumming, G. 507-513
- Dandona, P. 103-104
Davies, C.L. 207-208
Davies, J.A. 149-153
Davies, P. 1-8
Davison, A.M. 619-626
De Bruijn, A.M. 665-667
De Keijzer, M.H. 611-617
Dekel, S. 429-436
Desai, S.P. 499-505
Donaldson, R.M. 579-588
Douglas, N.J. 273-279
Drazen, J.M. 281-287
Dzau, V.J. 117-120
- Edelstein, S. 429-436
Edwards, R.H.T. 193-201
Ehrsam, R.E. 653-660
Eklund, B. 547-550
Elkeles, R.S. 669-672
Elliott, H. 325-331
Elliott, H.L. 237-241
Elliott, J.M. 207-208
El-Nahas, A.M. 399-406
Eriksson, L.S. 491-498
Evans, D.J. 399-406
- Fajer, A.B. 393-397
Farrington, K. 437-440
Felig, P. 491-498
Fentem, P.H. 521-526
Ferrara, L.A. 137-141
Ferrari, A. 227-235
Finch, M.B. 359-363
Flenley, D.C. 65-69
Franks, S. 457-462
Frisoni, M. 89-90
Funder, J.W. 85-87
- Gale, E.A.M. 263-271
Gardiner, S.M. 19-25, 469-
474, 589-598
Garlick, P.J. 313-324
Garrow, J.S. 307-312
Gasbarrini, G. 89-90
Gavras, H. 255-261
Gavras, I. 255-261
Geers, F.C.A. 665-667
Ghatei, M.A. 365-371
Giannattasio, R. 137-141
Giles, G.R. 619-626
Gill, J.R. 43-46
Goday, A. 635-643
Graf, A.K. 43-46
Grahame-Smith, D.G. 207-208
Green, R. 449-455
Greening, A.P. 661-664
Greenway, B. 71-75
Gregorini, L. 227-235
Guedon, J. 479-486
Güllner, H.-G. 43-46
Guyatt, A.R. 507-513
Guz, A. 383-392
- Haber, E. 117-120
Hagenfeldt, L. 491-498
Halliday, D. 307-312
Handa, M. 37-42
Hansson, R. 605-610
Hartling, O.J. 247-253
Häyry, P. 547-550
Heaton, A. 539-545
Henderson, M.J. 527-532
Henriksen, O. 441-444
Herzog, H. 653-660
Hoffbrand, A.V. 635-643
Hoffenberg, R. 337-342
Hofman, A. 665-667
Holst, J.J. 263-271
Hom, G.J. 9-17
Homer, D. 619-626
Hopwood, J.J. 325-331
Horne, J.A. 569-578
Howdle, P.D. 105-110
Humphrey, C.S. 619-626
Hvid Hansen, H. 415-422
Hylkema, R.S.A.J. 665-667
- Ikemoto, F. 117-120
Inagami, T. 475-478

- Innes, A. 273-279
 Iqbal, M.J. 71-75
 Ireland, M.A. 1-8
- Jackson, M.J. 193-201
 Jandhyala, B.S. 9-17
 Jazrawi, R.P. 185-191
 Jeremy, J.Y. 103-104
 Johnson, P.J. 71-75
 Johnston, D.G. 539-545
 Johnston, G.D. 359-363
 Johnston, I.D.A. 165-175
 Jondeau, G. 479-486
 Jones, D.A. 193-201
 Jones, J.V. 207-208
 Jones, P.W. 289-296
 Jonsson, O. 605-610
 Joseph, A. 185-191
 Jung, R.T. 365-371
- Kang, S.-S. 335-336
 Kanstrup, I.-L. 599-604
 Kasbergen, C.M. 111-116
 Keir, M.J. 165-175
 Kelleher, J. 619-626
 Kelly, D.A. 303-305
 Kenny, A.J. 551-559
 Kerr, D.N.S. 539-544
 Keyes, S.J. 289-296
 Khalid, B.A.K. 85-87
 Khan, S.R. 669-672
 Khaw, K.T. 243-245
 Kirby, J.D.T. 515-519
 Kleinjans, J.C.S. 111-116
 Kondo, K. 37-42
 Kondo, M. 423-428
 Kort, W.J. 611-617
 Kovacs, I.B. 515-519
 Kravtsov, G.M. 127-135
 Kupfer, R.M. 185-191
- Larkins, R.G. 85-87
 Larrey, D. 203-205
 Leahey, W.J. 359-363
 Lebec, D. 203-205
 Lee, C. 383-392
 Lee, M.R. 159-164
 Leitch, A.G. 281-287
 Leonetti, G. 227-235
 Levinsky, R.J. 635-643
 Lewis, B. 95-98
 Littler, W.A. 1-8
 Londei, M. 89-90
 López, J.M. 487-490
 Losowsky, M.S. 619-626
 Lowrie, D.B. 661-664
 Lundstam, S. 605-610
- Macdonald, I.A. 263-271
 Macnee, W. 273-279
 Maillard, D. 57-64
 Mancia, G. 227-235
 Mancini, M. 137-141
 Marenah, C.B. 95-98
 Mariam, B.T. 463-468
 Matthews, D.M. 177-184
 Matthews, J.A. 263-271
 Mattioli, P.L. 137-141
 Maury, C.P.J. 547-550
 McKenzie, I.M. 27-32
 McKenzie, J.K. 27-32
 Meanock, C.I. 507-513
 Mengesha, Y.A. 463-468
 Menys, V.C. 149-153
 Mikhailidis, D.P. 103-104
 Milanez, S. 335-336
 Miller, N.E. 95-98
 Millward, D.J. 217-225
 Mitchell, M.D. 43-46
 Moldawer, L.L. 499-505
 Molenaar, J.C. 611-617
 Moorhead, J.F. 437-440
 Morgan, B.M. 289-296
 Morgan, D.B. 407-414
 Mosekilde, L. 415-422
 Myant, N.B. 99-101
- Nair, K.S. 307-312
 Nashat, F. 579-588
 Newman, S.P. 437-440
 Nicholls, D.P. 359-363
 Noble, D. 579-588
 Northfield, T.C. 185-191
 Nunziata, V. 137-141
- Oberholzer, M. 653-660
 O'Malley, K. 155-157
 Orlov, S.N. 127-135
 Orskov, H. 539-545
 Osuafor, T.O.K. 445-446
 Oswald, I. 561-567
- Paraskevovou, H. 399-406
 Parati, G. 227-235
 Parmentier, M. 475-478
 Patrick, J.M. 521-526
 Perruchoud, A. 653-660
 Pessayre, D. 203-205
 Peters, T.J. 645-652
 Pettersson, S. 605-610
 Picotti, G.B. 227-235
 Pinter, G.G. 393-397
 Pluss, R.G. 533-538
 Pluss, W.T. 533-538
 Pochet, R. 475-478
- Pokudin, N.I. 127-135
 Pollock, D.M. 47-55
 Postnov, Yu.V. 127-135
 Power, J. 273-279
 Prescott, L.F. 65-69
 Price, S. 95-98
 Provoost, A.P. 611-617
 Purkiss, P. 627-633
- Ramsden, D.B. 337-342
 Ravazzani, C. 227-235
 Rawbone, R. 383-392
 Rees, A.J. 399-406
 Reid, J.L. 143-147, 237-241
 Reisin, E. 27-32
 Rennie, M.J. 217-225
 Rickards, A.F. 579-588
 Robson, R.H. 65-69
 Roby, A. 57-64
 Rodger, J.C. 143-147
 Rodriguez, J.A. 487-490
 Rogers, S.P. 85-87
 Rorive, G. 351-357
 Ruget, G. 479-486
 Russell, G.I. 33-36
- Salama, R. 429-436
 Sanders, T.A.B. 343-350
 Saruta, T. 37-42
 Scherstén, T. 605-610
 Schofield, W.N. 313-324
 Scott, J.M. 303-305
 Selz, F. 479-486
 Shand, B.I. 333-334
 Shimizu, Y. 423-428
 Simmonds, H.A. 635-643
 Simpson, L.O. 333-334
 Skagen, K. 441-444
 Sleight, P. 207-208
 Smits, J.F.M. 111-116
 Snashall, P.D. 289-296
 Sowemimo-Coker, S.O. 515-519
- Spence, J.D. 91-93
 Stockley, R.A. 373-381
 Stork, J.E. 393-397
 Strazzullo, P. 137-141
 Struthers, A.D. 143-147
 Struyker Boudier, H.A.J. 111-116
- Sudlow, M.F. 273-279
 Sule, U. 95-98
 Suzuki, H. 37-42
 Swales, J.D. 33-36
 Swallow, M.B. 669-672
- Taagehøj Jensen, F. 415-422

- Tabacchi, P. 89-90
 Taggart, P. 579-588
 Takaori, K. 117-120
 Teppo, A.-M. 547-550
 Tfelt-Hansen, P. 599-604
 Thompson, G.R. 99-101
 Thurston, H. 33-36
 Tomas, F.M. 209-215
 Tomkins, A.M. 313-324
 Toothill, C. 527-532
 Trap-Jensen, J. 247-253
 Turner, P. 515-519
 Turner, P.R. 95-98

 Urata, G. 423-428

 Van Aken, M. 611-617
 Varghese, Z. 437-440
 Veall, N. 627-634

 Vermeeren, R. 665-667
 Vervoort-Peters, H.T.M. 111-116

 Waeber, B. 255-261
 Wahren, J. 491-498
 Waldenström, J. 605-610
 Ward, M.K. 539-544
 Waterlow, J.C. 313-324
 Watson, A.R. 635-643
 Watts, R.W.E. 627-634
 Webster, D.R. 635-643
 Webster, J.D. 365-371
 Weir, D.G. 303-305
 Weyma, I.M. 611-617
 Whitesmith, R. 143-147
 Wilkinson, M.L. 71-75
 Willer, J.C. 57-64
 Williams, G.H. 121-126

 Williams, R. 71-75
 Wilson, P.D. 393-397
 Winkler, K. 599-604
 Wolff, E.D. 611-617
 Wong, P.W.K. 335-336
 Wong, P.Y. 121-126
 Wood, S.M. 365-371
 Woreta, A. 463-468
 Wraith, P.K. 65-69
 Wright, P.D. 165-175

 Yamamoto, K. 117-120
 Yanaihara, N. 365-371

 Zago, M.A. 297-302
 Zanchetti, A. 227-235
 Zerbe, G.G. 533-538
 Zoob, S. 399-406

Volume 65

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
 competition 177-184
 kinetics 177-184
Adenosine cyclic 3':5'-phosphate, neutrophils 155-157
Adenosine deaminase deficiency 635-643
Adhesion, erythrocytes 515-519
Adrenalectomy, 6-oxoprostaglandin F_{1α} 85-87
Adrenaline
 β-adrenoceptor blockade 143-147
 blood pressure changes 227-235
α-Adrenoceptors
 blockade 247-253
 essential hypertension 207-208
α₂-Adrenoceptors, peripheral vascular regulation 237-241
β-Adrenoceptors
 age 155-157
 blockade 143-147
Age
 β-adrenoceptor responsiveness 155-157
 exercise 521-526
 pulmonary haemodynamics 653-660
Airflow
 limitations 273-279
 obstruction 507-513
Airway narrowing, pulmonary oedema 289-296
Alanine, phentolamine infusion 247-253
Albumin
 synthesis 499-505
 thyroid hormone transport 337-342*
 tissue permeability 393-397
Alcoholic cirrhosis, antipyrine clearance 203-205
Alcoholism
 hepatic lipid 645-652
 liver δ-aminolaevulinate dehydratase 423-428
Alveolar macrophages, hydrogen peroxide 661-664
Amino acid, metabolism 499-505
δ-Aminolaevulinate dehydratase, liver activity 423-428
Amyloid A protein, renal allograft rejection 547-550
Angiotensin
 frusemide and captopril 359-363
 kininogen deficiency 121-126
Antibody, α₁-proteinase inhibitor 373-381
Antipyrine clearance, propranolol 203-205
α₁-Antitrypsin, bronchial secretions 373-381
Aorta
 hypertension 351-357
 6-oxoprostaglandin F_{1α} 85-87
 platelet adhesion 149-153
Arachidonic acid, platelet function 343-350*
Aromatase, pancreas 71-75
Arterial blood pressure, hypoxia 463-468
Arterioles, reactivity 1-8
Ascitic tumour, folate catabolism 303-305
Atenolol, adrenaline infusion 143-147
Atherosclerosis, blood velocity patterns 91-93
Autoregulation, vasculature 1-8
Bile acids, gall-bladder storage function 185-191
Bile salts, cholestatic jaundice 77-84
Blood flow
 ergotamine 599-604
 hypoxia 463-468
 kidney 47-55, 533-538, 605-610
 peripheral, insulin 263-271
Blood pressure
 α₂-adrenoceptors 237-241
 baroreflexes 227-235
 captopril 589-598
 ergotamine 599-604
 immunoglobulins 665-667
 noradrenaline 111-116
 phentolamine 247-253
 pulmonary artery 653-660
 renovascular hypertension 33-36
 urine electrolytes 243-245
Blood vessels, reactivity 1-8
Blood volume, expansion 9-17
Body composition 407-414
Bradykinin, angiotensin 121-126
Brain, subcellular calcium transport 127-135
Brattleboro rat strain
 electrolyte excretion 589-598
 haemorrhage 19-25
Breathing patterns, cigarette smoking 383-392
Bronchial secretions, α₁-antitrypsin 373-381
Bronchoconstriction, pulmonary oedema 289-296

- Bronchomotor tone 289-296
 Brush border hydrolases 551-559
- Calcium
 absorption 437-440
 balance 415-422
 brain transport 127-135
 essential hypertension 137-141
 excretion, urinary 137-141
 metabolism 415-422
 Callus, vitamin D 429-436
 Capillaries, experimental diabetes 393-397
 Captopril
 angiotensin II and frusemide 359-363
 blood pressure 589-598
 electrolyte excretion 589-598
 glucocorticoid hypertension 37-42
 Carbohydrate, metabolism 539-545
 Cardiac output
 age 653-660
 determination 447-448
 ergotamine 599-604
 exercise 653-660
 Cardiopulmonary receptors, spinal reflexes 57-64
 Carotid baroreflex, catecholamines 227-235
 Carotid stenosis, blood velocity patterns 91-93
 Catalase, renal circulation 605-610
 Catecholamines
 β -adrenoceptor blockade 143-147
 blood pressure changes 227-235
 ergotamine 599-604
 free and conjugated 479-486
 glucocorticoid hypertension 255-261
 Cell division, sleep 561-567*, 569-578*
 Cerebral oedema, fulminant hepatic failure 445-446
 Chemosensitivity, ventilation 65-69
 Cholecalciferol, fracture repair 429-436
 Cholestasis, bile salt binding 77-84
 Cholesterol
 alcoholism and diabetes 645-652
 saturation index 185-191
 smoking 669-672
 Cigarette smoking *see* Smoking
 Circulation, kidney 605-610
 Cirrhosis, alcoholism and diabetes 645-652
 Coeliac disease, T-lymphocyte subsets 89-90
 Coproporphyrin, lead intoxication 527-532
 Corticosteroid production 99-101
 Coughing, spinal reflexes 57-64
 Counter-regulatory hormones 263-271
 Creatine kinase, skeletal muscle 193-201
 Creatine, protein metabolism 313-324
 Creatinine ratios, sodium and potassium 243-245
 Cyclic AMP *see* Adenosine cyclic 3':5'-phosphate
 Cyclo-oxygenase, leukotriene infusion 281-287
 Cyclosporin A, renal allograft rejection 547-550
- Deformability, erythrocytes 515-519
 Deoxy-ATP, immunodeficiency syndromes 635-643
 Deoxycytosine, Immunodeficiency syndromes 635-643
 Deoxy-GTP, immunodeficiency syndromes 635-643
 Deoxyribonucleic acid synthesis, aorta 351-357
 Dermal calcium loss 415-422
 Dexamethasone, kallikrein excretion 487-490
 Diabetes mellitus, hepatic lipid 645-652
 Diabetic nephropathy 393-397
 Diet, thermic response 307-312
 Diethylenetriaminepenta-acetate, renal clearance 627-633
 Distal tubule blockade 47-55
 Diuresis, frusemide 359-363
 DNA *see* Deoxyribonucleic acid
 Dopamine
 acute renal failure 159-164
 sodium excretion 479-486
 Doxapram, ventilation 65-69
- Electrolytes
 captopril 589-598
 hypoxia 463-468
 Electrophysiology, heart 579-588
 Emphysema, extracellular hydrogen peroxide 661-664
 Enzyme precursor, renin 475-477
 Enzymes, muscle release 193-201
 Ergotamine, haemodynamics 599-604
 Erythrocytes, scleroderma 515-519
 Essential hypertension, catecholamines 227-235
 Exercise
 phentolamine infusion 247-253
 pulmonary haemodynamics 653-660
 Exercise test, ventilation 521-526
 Experimental surgery 611-617
 Extracellular fluid volume
 expansion 479-486
 hyperoxaluria, 627-633
- Fat, platelet function 343-350*
 Fat-free mass, skinfold thickness 407-414
 Fatty acids
 liver 645-652
 non-esterified, insulin 263-271
 phentolamine infusion 247-253
 Fatty liver, alcoholism and diabetes 645-652

- Flow-volume curves, airway gas 273-279
 Folate, ascitic tumour 303-305
 Fracture repair, vitamin D 429-436
 Frusemide, angiotensin II and captopril 359-363
 Fulminant hepatic failure, cerebral oedema 445-446
 Functional residual capacity, bronchoconstriction 289-296
- Galactose 6-sulphate sulphatase deficiency 325-331
 Gall bladder, storage function 185-191
 Gastrin-releasing peptide, hormone secretion 365-371
 Gastrointestinal hormones 365-371
 Gastrointestinal tract, organ culture 105-110*
 Globulin, thyroid hormone transport 337-342*
 Glomerular filtration, hypoxia and hypercapnic acidosis 533-538
 Glomerular filtration rate
 atrial extract 47-55
 hyperoxaluria 627-633
 low protein diet 399-406
 pregnancy 449-455*
 Glomerular sclerosis, low protein diet 399-406
 Glucocorticoid
 hypertension 37-42, 255-261
 6-oxoprostaglandin F_{1α} 85-87
 Glucose
 absorption 539-545
 hypoglycaemia 263-217
 leucine uptake 491-498
 oxidation rate 307-312
 phentolamine infusion 246-253
 reabsorption, pregnancy 449-455*
 tolerance 307-312
 γ-Glutamyl L-dopa, acute renal failure 159-164
 Glycerol, experimental renal failure 159-164
 Glycerol, phentolamine infusion 247-253
 [¹⁵N]Glycine, protein metabolism 313-324
 Glycochenodeoxycholate, cholestatic jaundice 77-84
 Glycocholate, cholestatic jaundice 77-84
 Glycylsarcosine, intestinal absorption 177-184
 Goldblatt hypertension, aortic smooth muscle 351-357
 Growth hormone, sleep 561-567*, 569-578*
 Guanethidine, isolated hypertension 469-474
- Haemodynamics
 carotid stenosis 91-93
 pulmonary 653-660
 Haemorrhage, naloxone 19-25
 Head-up tilt, skeletal muscle blood flow 441-444
- Heart
 atrial pressure 653-660
 subendocardial ischaemia 579-588
 Heart rate
 exercise 653-660
 hypoxia 463-468
 phentolamine infusion 247-253
 Histoautoradiography, aorta 351-357
 HLA-B8, coeliac disease 89-90
 Homocyst(e)ine, protein-bound 335-336
 Hydralazine, blood velocity patterns 91-93
 Hydrogen peroxide, alveolar macrophages 661-664
- Hypercapnia
 doxapram 65-69
 renal autoregulation 533-538
 Hypercholesterolaemia
 adrenocorticotrophic hormone 99-101
 lymphocytes 95-98
 Hyperprolactinaemia, oestrogens 457-462*
 Hypertension
 aortic smooth muscle 351-357
 atherosclerosis 91-93
 calcium metabolism 137-141
 essential 207-208
 glucocorticoid 37-42
 isolation-induced 469-474
 noradrenaline 111-116
 post-transplantation 611-617
 renovascular 27-32, 33-36
 spontaneous 127-135
 Hypertension, experimental
 aortic smooth muscle 351-357
 Goldblatt two-kidney one-clip 33-36
 Hypoglycaemia, insulin 263-271
 Hypokalaemia
 β-adrenoceptor blockade 143-147
 prostacyclin synthesis 43-46
 Hypoxia
 cardiovascular changes 463-468
 renal autoregulation 533-538
- Immunoaffinity chromatography, renin isolation 117-120
 Immunodeficiency syndromes, lymphocyte nucleotides 635-643
 Immunoelectrophoresis, kidney membrane proteins 551-559
 Immunoglobulins G and M, blood pressure 665-667
 Immunological enhancement, kidney transplantation 611-617
 Indomethacin, intravenous leukotrienes 281-287
 Infection, protein metabolism 313-324
 Insulin, leucine uptake 491-498
 Intestinal absorption, peptides 177-184

- Intestinal mucosa, culture 105-110*
 Intrarenal infusion, noradrenaline 111-116
 Ischaemia
 kidney 27-32
 renal circulation 605-610
 Isolation, hypertension 469-474
- Kallikrein**
 angiotensin 121-126
 dexamethasone 487-490
 glucocorticoid hypertension 37-42
 Keratan sulphate, Morquio A syndrome 325-331
 Ketogenesis, peritoneal dialysis 539-545
 6-Ketoprostaglandin F_{1α}
 see 6-Oxoprostaglandin F_{1α}
- Kidney**
 allograft rejection 547-550
 blood flow 533-538, 605-610
 brush border hydrolases 551-559
 calcium excretion 137-141
 diabetes mellitus 393-397
 failure 159-164, 619-626
 ischaemia 27-32
 lead intoxication 527-532
 lymph flow 393-397
 membrane proteins 551-559
 mRNA 475-477
 myocardial extracts 47-55
 nervous control 533-538
 noradrenaline 111-116
 oxalate 627-633
 pregnancy 449-455*
 transplantation 611-617, 619-626
 Kininogen deficiency, angiotensin 121-126
- Lactate, phentolamine infusion 247-253
 Lactate dehydrogenase, skeletal muscle 193-201
 Lead intoxication, urinary coproporphyrin 527-532
- Leucine**
 insulin 491-498
 metabolism 499-505
 Leucocyte elastase, α₁-antitrypsin 373-381
 L-Leucyl-L-leucine, intestinal absorption 177-184
- Leukotrienes, indomethacin 281-287
 Linoleic acid, prostaglandin 103-104
 Lipid, metabolism 539-545
 Lipolysis, peritoneal dialysis 539-545
 Lipoprotein, low density 95-98
 Lipoproteins (high density: HDL, HDL₂, HDL₃),
 smoking 669-672
- Liver, lipid 645-652
 Longitudinal studies, exercise test 521-526
 Lung mechanics, intravenous leukotrienes 281-287
 Lung secretions, α₁-antitrypsin 373-381
 Lymph flow, renal 393-397
 Lymphocyte
 lipoprotein receptors 95-98
 nucleotides 635-643
- Malnutrition, protein metabolism 313-324
 Membrane transport, calcium 127-135
 Mental tasks, spinal reflexes 57-64
 Messenger RNA, renin synthesis 475-477
 Metabolism, sleep 561-567*
 3-Methylhistidine
 muscle protein 209-215*, 217-225*
 protein metabolism 313-324
 Microangiopathy, peritubular capillaries 393-397
 Micro-ultrafiltration technique, bile salt binding 77-84
 Microvilli, membrane 551-559
 Morquio A syndrome, detection 325-331
 Mueller manoeuvre 57-64
 Muscle, skeletal
 blood flow 441-444
 enzyme release 193-201
 leucine uptake 491-498
 protein breakdown 209-215*, 217-225*
 Muscle, smooth, aorta 351-357
 Myocardial infarction, skeletal muscle blood flow 441-444
 Myocardial ischaemia, electrophysiology 579-588
 Myocardium extract, renal function 47-55
- Naloxone, haemorrhage 19-25
 Natriuretic hormone 479-486
 Neck chamber, carotid baroreflex 227-235
 Nephrectomy, subtotal 399-406
 Nephrotic syndrome, calcium and phosphate absorption 437-440
 Neuropeptide, gastrin-releasing 365-371
 Neutrophils, cyclic AMP production 155-157
 Nitrogen, total body 407-414
 Nitrogen balance, nutrition and trauma 165-175
 Noradrenaline
 blood pressure changes 227-235
 intrarenal infusion 111-116
 Nutrition, protein metabolism 165-175, 313-324
- Obesity, dietary thermic response 307-312
 Oestrogens, prolactin secretion 457-462*

- Organ culture, gastrointestinal tract 105-110*
- Osmolality, hypoxia 463-468
- Oxalate, dynamics 627-633
- Oxalosis, hyperoxaluria 627-633
- Oxaluria, oxalate dynamics 627-633
- 6-Oxoprostaglandin F_{1α} 43-46, 85-87
- Oxygen consumption, phentolamine infusion 247-253
- Oxygen free radicals, renal circulation 605-610
- Oxygen saturation, nocturnal 507-513
- Pancreas, enzyme synthesis 71-75
- Pancreatic carcinoma, enzymes 71-75
- Pancreatic hormones, gastrin-releasing peptide 365-371
- Parathyroid gland, essential hypertension 137-141
- Peptide absorption, jejunum 177-184
- Peritoneal dialysis, ambulatory 539-545
- Peritubular capillaries, experimental diabetes 393-397
- Phentolamine, haemodynamics and metabolism 247-253
- Phosphate absorption, nephrotic syndrome 437-440
- Phospholipids, hepatic 645-652
- Platelets
- adhesion 149-153
 - α-adrenoceptors 207-208
 - dietary fat 343-350*
 - nucleotides 635-643
 - release reaction 149-153
- PNMT inhibitor, glucocorticoid hypertension 255-261
- Polyacrylamide gel electrophoresis, kidney membrane proteins 551-559
- Polyunsaturated fats, platelet function 343-350*
- Porphyria cutanea tarda, liver δ-aminolaevulinate dehydratase 423-428
- Potassium
- β-adrenoceptor blockade 143-147
 - prostacyclin synthesis 43-46
 - total body 407-414
 - Urinary creatinine ratio 243-245
- Prealbumin, chronic renal failure 619-626
- Pregnancy, renal function 449-455*
- Pressor responsiveness 237-241
- Prolactin secretion, oestrogens 457-462*
- Propranolol
- antipyrine clearance 203-205
 - blood velocity patterns 91-93
 - hypoxia 463-468
- Prostacyclin
- analogue (ZK 36374) 149-153
 - synthesis 43-46
- Prostaglandins
- glucocorticoid hypertension (E₂) 37-42
 - hypokalaemia 43-46
 - lineoleic acid 103-104
- Protein
- bile salt binding 77-84
 - metabolism 165-175, 313-324
 - reduced dietary intake 399-406
 - retinol-binding 337-342*, 619-626
 - skeletal muscle breakdown 209-215*, 217-225*
 - synthesis in sleep 561-567*, 569-578*
 - thyroid hormone transport 337-342*
 - turnover 499-505
 - vitamin A transport 619-626
- Proteinases, kidney microvillar membrane 551-559
- Proteinuria
- hyperproteinaemic 333-334
 - low protein diet 399-406
- Proteolysis, lung diseases 373-381
- Pteroylglutamate, ascitic tumour 303-305
- Pulmonary haemodynamics, age 653-660
- Pulmonary mechanics, intravenous leukotrienes 281-287
- Pulmonary oedema, bronchoconstriction 289-296
- Purine nucleoside phosphorylase deficiency 635-643
- Receptors
- low-density lipoprotein 99-101
 - lymphocyte, lipoprotein 95-98
- 5α-Reductase, pancreatic 71-75
- Renal allograft rejection, amyloid A 547-550
- Renal failure, γ-glutamyl L-dopa 159-164
- Renal lymph flow 393-397
- Renin
- aortic 33-36
 - binding substance 117-120
 - high molecular weight 117-120
 - inactive 27-32
 - kininogen deficiency 121-126
 - plasma 33-36
 - precursor, cell-free synthesis 475-477
- Renin-angiotensin system
- glucocorticoid hypertension 37-42
 - kininogen deficiency 121-126
- Renovascular hypertension 27-32, 33-36
- Resistance, vascular 9-17
- Respiratory mechanics, air flow 273-279
- Respiratory tract infections 661-664
- Retinol-binding protein
- chronic renal failure 619-626
 - prealbumin 337-342*

- Saralasin, glucocorticoid hypertension 255-261
 Scleroderma, erythrocyte behaviour 515-519
 Serotonin, platelet release 149-153
 Sex-steroid enzymes, pancreatic 71-75
 Sickle-cell anaemia, splenic function 297-302
 Skeletal muscle *see* Muscle, skeletal
 Sleep
 nocturnal oxygen saturation 507-513
 protein metabolism 561-567*, 569-578*
 Sleep-wake cycle 561-567*
 Smoking
 alveolar macrophages 661-664
 breathing patterns 383-392
 fat tolerance 669-672
 serum triglyceride 669-672
 Smooth muscle *see* Muscle, smooth
 Sodium
 acute renal failure 159-164
 excretion 47-55
 kallikrein excretion 487-490
 reabsorption, pregnancy 449-455*
 urinary creatinine ratio 243-245
 Somatostatin, leucine uptake 491-498
 Spinal reflexes, monosynaptic 57-64
 Splanchnic tissues, leucine uptake 491-498
 Spleen, sickle-cell diseases 297-302
 Spontaneous hypertension, brain calcium transport 127-135
 Stroke volume, exercise 653-660
 Superoxide dismutase, renal circulation 605-610
 Suppressor T-cell function, coeliac disease 89-90
 Surface charge, erythrocytes 515-519
 Surgical reversal, renovascular hypertension 33-36
 Sympathectomy, isolation hypertension 469-474
 Sympathetic activity, blood pressure changes 227-235
 Symptomatic porphyria 423-428
 Synaptosomes, brain calcium transport 127-135

 Temperature, hypoglycaemia 263-271
 Thalassaemia, splenic function 297-302
 Thermogenesis, diet 307-312
 Thymidine, aortic uptake 351-357
 Thyroid hormones, transport 337-342*
 Thyroxine, transport 337-342*
 Tilting, blood pressure changes 227-235
 Timolol, adrenaline infusion 143-147
 Tissue culture, gastrointestinal tract 105-110*
 T-lymphocyte subsets, coeliac disease 89-90

 Translation, *in vitro* 475-477
 Transport proteins
 thyroid hormones 337-342*
 vitamin A 619-626
 Trauma, protein metabolism 165-175
 Triglyceride
 liver 645-652
 phentolamine infusion 247-253
 smoking 669-672
 Tri-iodothyronine, transport 337-342*
 Tubular function, pregnancy 449-455*
 Tumours, folate catabolism 303-305
 Tyrosine, metabolism 499-505

 Urine
 casual sample 243-245
 electrolytes, blood pressure 243-245
 flow, atrial extract 47-55

 Vagal reflex, pulmonary oedema 289-296
 Valsalva manoeuvre 57-64
 Vascular reactivity 1-8
 Vascular resistance
 α_2 -adrenoceptors 237-241
 blood volume expansion 9-17
 phentolamine 247-253
 Vascular responses, frusemide 359-363
 Vasoconstriction
 glucocorticoid hypertension 255-261
 skeletal muscle 441-444
 Vasopressin, haemorrhage 19-25
 Vasopressin antagonist, glucocorticoid hypertension 255-261
 Veno-arteriolar reflex, skeletal muscle 441-444
 Venous occlusion, arterial response 1-8
 Ventilation
 bicycle exercise 521-526
 doxapram 65-69
 spinal reflexes 57-64
 Viscous gas mixture, airflow 273-279
 Vitamin A, chronic renal failure 619-626
 Vitamin D, fracture repair 429-436

 Water balance, captopril 589-598
 Water reabsorption, pregnancy 449-455*

 Zinc, liver δ -aminolaevulinate dehydratase 423-428
 ZK 36374, prostacyclin analogue 149-153