

## Volume 68

### AUTHOR INDEX

- Adams, L. 327-332  
 Alberti, A. 123-126  
 Allen, J.M. 373-377  
 Allistone, A. 227-232  
 Andreucci, V.E. 255-261  
 Ardailou, R. 545-552  
 Aronson, J.K. 511-515
- Bacon, P.A. 333-339  
 Baldini, G. 675-680  
 Baraldini, M. 123-126  
 Barden, A. 601-604  
 Bariety, J. 79-82  
 Barnes, J.N. 625-630  
 Baron, D.N. 143-149, 517-521  
 Beaumont, A. 327-332  
 Beck, F.W.J. 263-269  
 Beilin, L.J. 601-604  
 Bell, R.N. 283-289  
 Ben-Ishay, D. 495-501  
 Bennett, T. 613-619, 647-657  
 Bernheim, J. 93-96  
 Berry, J.L. 135-141  
 Betteridge, D.J. 83-88  
 Biden, T.J. 567-572  
 Biggi, A. 609-612  
 Billing, B.H. 63-70, 341-347  
 Bjarnason, I. 573-579  
 Blanchart, A. 605-607  
 Blanchet, L. 23-28  
 Bloom, S.R. 373-377  
 Boberg, M. 581-587  
 Boon, N.A. 511-515  
 Bowman, E.P.W. 357-364  
 Bracken, P. 333-339  
 Brammert, M. 185-191  
 Bravo, E.L. 407-410  
 Brostoff, J. 427-432  
 Bruce, S.E. 573-579  
 Brunner, H.R. 485-488  
 Brun-Pascaud, M. 301-309  
 Bruschi, G. 179-184  
 Bruschi, M.E. 179-184  
 Burkinshaw, L. 455-462  
 Burnett, D. 469-474  
 Bush, A. 401-406
- Caine, A.C. 165-169  
 Campbell, B.C. 49-56
- Campbell, I.L. 567-572  
 Campbell, R.R. 83-88  
 Caroppo, M. 179-184  
 Carter, G.D. 29-33  
 Cartwright, I.J. 449-454  
 Cattell, W.R. 529-535  
 Cavatorte, A. 179-184  
 Cesura, A.M. 503-510  
 Chan, Y.L. 311-319, 321-326  
 Chitranukroh, A. 63-70  
 Christensen, N.J. 621-624  
 Cianciaruso, B. 255-261  
 Cockcroft, A. 327-332  
 Coffman, J.D. 659-667  
 Collier, J.G. 227-232  
 Conte, G. 255-261  
 Cooksley, W.G.E. 357-364, 553-560  
 Coruzzi, P. 609-612  
 Cotter, F.E. 57-62  
 Cotton, L.T. 639-645  
 Creager, M.A. 659-667  
 Croon, L.B. 581-587  
 Cumming, A.D. 159-164, 537-543
- Dal Canton, A. 255-261  
 Davidson, R.N. 227-232  
 Davies, M. 135-141  
 Dawnay, A. 529-535  
 Denison, D. 401-406  
 De Trafford, J.C. 639-645  
 De Zeeuw, D. 479-482  
 Dieplinger, H. 411-418  
 Drew, P.J.T. 625-630  
 Duesing, R. 387-393
- East, B.W. 349-355  
 Ebsen, W. 495-501  
 Edelstein, S. 97-100  
 Edmonds, C.J. 379-385  
 Edwards, R.H.T. 379-385  
 Eisenhower, G. 71-78  
 El Nahas, A.M. 15-21  
 Empey, D.W. 57-62
- Facchini, A. 123-126  
 Faxon, D.P. 659-667  
 Fejes-Tóth, G. 681-685  
 Fellows, I.W. 613-619
- Fern, E.B. 271-282  
 Fernando, O.N. 567-572  
 Fernández-Múnoz, D. 605-607  
 Fischer, C. 681-685  
 Flint, K.C. 427-432  
 Forsling, M.L. 669-674  
 Foster, K. 83-88  
 Frölich, J.C. 681-685  
 Fuiano, G. 255-261  
 Fuller, R.W. 227-232  
 Furniss, S.S. 625-630
- Gabriel, R. 401-406  
 Gafer, U. 97-100  
 Gaida, W. 35-43  
 Galloway, J.H. 449-454  
 Ganten, D. 35-43  
 Gardiner, S.M. 647-657  
 Garlick, P.J. 271-282  
 Garthoff, B. 495-501  
 Gasbarrini, G. 123-126  
 Gascon-Barré, M. 687-692  
 Gavazzi, C. 503-510  
 Gavras, H. 659-667  
 Geisler, D. 201-208  
 Gentile, S. 675-680  
 Gidlöf, A. 597-600  
 Gimson, A.E.S. 701-707  
 Girard, P. 301-309  
 Gkika, E.-L. 79-82  
 Gkikas, G. 79-82  
 Glaenger, K. 387-393  
 Goday, A. 561-565  
 Goodwin, F.J. 625-630  
 Grahame-Smith, D.G. 511-515  
 Grassi, G. 503-510  
 Gray, H.H. 239-241  
 Greaves, M. 449-454  
 Green, M. 1-10  
 Green, R.J. 517-521  
 Gregory, H. 243-246  
 Griffiths, E. 463-467  
 Griffiths, R.D. 379-385  
 Griggs, R.C. 151-157  
 Grimaldi, A. 545-552  
 Gustafsson, I.-B. 581-587  
 Gutteridge, J.M.C. 463-467  
 Guz, A. 215-225, 327-332

- Halliwell, B. 463-467  
 Hamilton, R.D. 215-225  
 Hann, J.T. 135-141  
 Hanson, P. 631-638  
 Harper, C. 511-515  
 Havinga, R. 127-134  
 Haylor, J. 475-477  
 Henriksen, J.H. 621-624  
 Hernando, L. 605-607  
 Hernando, N. 605-607  
 Higaki, J. 407-410  
 Hilton, P.J. 11-14, 89-91, 239-241  
 Hjelm, M. 201-208  
 Hökfelt, B. 185-191  
 Holgate, S.T. 103-112  
 Holly, J.M.P. 625-630  
 Holmes, P.H. 349-355  
 Hudspeth, B.N. 427-432  
 Hughes, R.D. 701-707  
 Huisman, R.M. 479-482  
 Husby, G. 333-339
- Ireland, H. 701-707
- Jackson, P.R. 475-477  
 Johnson, N.McI. 427-432  
 Johnson, R.H. 71-78  
 Johnson, V.E. 89-91, 239-241
- Kariv, N. 93-96  
 Kastrup, J. 621-624  
 Kay, J.D.S. 201-208  
 Kazda, S. 495-501  
 Kent, G.N. 171-177  
 Keshavarzian, A. 283-289  
 Khan, F.A. 143-149, 517-521  
 Khullar, A.K. 433-439  
 Kingston, W. 151-157  
 Kipnowski, J. 387-393  
 Kishk, Y.T. 419-425  
 Klautke, G. 387-393  
 Klingmueller, D. 387-393  
 Knapp, M.F. 243-246  
 Knight, A.R. 625-630  
 Knott, C. 215-225  
 Kostner, G.M. 411-418  
 Kountouras, J. 341-347  
 Kraft, K. 35-43  
 Kramer, H.J. 387-393  
 Krempler, F. 411-418  
 Kuipers, F. 127-134  
 Kumahara, Y. 407-410
- Lafferty, K. 639-645  
 Lambie, A.T. 537-543
- Lane, D.A. 701-707  
 Lang, R.E. 35-43  
 Lange-Asschenfeldt, H. 45-47  
 Langley, P.G. 701-707  
 Larsson, J. 597-600  
 Lavender, J.P. 283-289  
 Lebrech, D. 23-28  
 Lechler, R. 15-21  
 Ledingham, J.G.G. 373-377, 669-674  
 Leung, K.B.P. 427-432  
 Levi, J. 97-100  
 Linden, R.J. 243-246  
 López-Novoa, J.M. 605-607  
 Lorenz, R. 291-299  
 Losse, H. 45-47  
 Lote, C.J. 475-477  
 Loveridge, N. 171-177  
 Luckhaus, G. 495-501  
 Lumbers, E.R. 165-169  
 Lunazzi, G. 675-680
- MacKay, I.G. 159-164  
 MacKenzie, J. 379-385  
 Mancia, G. 503-510  
 Martin, F.C. 693-700  
 Martin, J.F. 419-425  
 Mason, J.C. 11-14  
 Mason, R.S. 311-319, 321-326  
 Maury, C.P.J. 233-238  
 Mawer, E.B. 135-141  
 McAleer, M. 83-88  
 McClanahan, M. 263-269  
 McDonald, I.A. 613-619  
 McKenzie, T. 263-269  
 Meldrum, B. 113-122  
 Meliconi, R. 123-126  
 Miglio, F. 123-126  
 Miller, J. 401-406  
 Mir, M.A. 365-368  
 Mohanty, P.K. 263-269  
 Morgan, D.B. 455-462  
 Morgan, K. 365-368  
 Morris, G.S. 561-565  
 Morton, J.J. 483-484, 669-674  
 Moxham, J. 1-10  
 Moxley, R.T., III 151-157  
 Muir, A.L. 159-164  
 Mundy, D. 83-88  
 Musiari, L. 609-612
- Náray-Fejes-Tóth, A. 681-685  
 Nath, K. 159-164  
 Newland, A.C. 57-62  
 Norman, R.W. 369-371
- Novarini, A. 609-612  
 Nussberger, J. 485-488
- Oates, J.A. 537-543  
 Oberholzer, V.G. 201-208  
 Ogihara, T. 407-410  
 Orlandini, G. 179-184  
 Overbeck, H.W. 101-102  
 Owens, J.A. 553-560
- Paillard, M. 301-309  
 Papanicolaou, N. 79-82  
 Parker, P. 165-169  
 Pasanisi, F. 209-213  
 Peacock, A.J. 401-406  
 Peacock, M. 369-371  
 Pearce, F.L. 427-432  
 Persico, M. 675-680  
 Peters, A.M. 283-289  
 Peters, T.J. 573-579, 693-700  
 Phillips, P.A. 669-674  
 Picotti, G.B. 503-510  
 Pither, J.M. 243-246  
 Popovtzer, M.M. 523-528  
 Posen, S. 311-319, 321-326  
 Poston, L. 11-14, 239-241  
 Potter, C. 639-645  
 Potter, E.K. 165-169  
 Preston, F.E. 449-454  
 Preston, T. 349-355  
 Pruszczyński, W. 545-552
- Raine, A.E.G. 373-377  
 Rajkovic, I.A. 247-253  
 Ramsay, L.E. 475-477  
 Rathaus, M. 93-96  
 Ravanetti, C. 609-612  
 Realdi, G. 123-126  
 Reckless, J.P.D. 83-88  
 Reeds, P.J. 349-355  
 Rees, A.J. 15-21  
 Reeve, J. 171-177  
 Reid, J.L. 49-56  
 Reynolds, P.D. 567-572  
 Rhodes, C.J. 567-572  
 Richardson, P.S. 227-232  
 Roberts, V.C. 639-645  
 Robertson, W.G. 369-371  
 Robinson, C. 103-112  
 Rockwell, S.M. 659-667  
 Rolls, B.J. 669-674  
 Rosenkranz, B. 681-685  
 Rouse, I. 601-604  
 Rowley, D.A. 463-467  
 Rubin, P.C. 209-213  
 Russell, R.G.G. 449-454

- Sabbatini, M. 255-261  
 Sahlin, K. 597-600  
 Saltissi, D. 29-33  
 Sandhofer, F. 411-418  
 Saverymuttu, S.H. 283-289  
 Sawada, M. 681-685  
 Scheuer, P.J. 341-347  
 Schorer-Apelbaum, D. 489-493  
 Schwarz, V. 433-439, 441-447  
 Scott, D.L. 333-339  
 Scott, J.S.D. 357-364, 553-560  
 Scurr, D.S. 369-371  
 Seakins, J.W.T. 201-208  
 Seshadri, M.S. 311-319, 321-326  
 Shapira, J. 93-96  
 Shea, S.A. 215-225  
 Shilo, R. 523-528  
 Simmer, K. 395-399  
 Simmonds, H.A. 561-565  
 Simpson, I.M.N. 441-447  
 Sjöholm, H. 597-600  
 Skehan, J.D. 625-630  
 Sloan, L. 209-213  
 Smith, T. 379-385  
 Sopwith, T. 401-406  
 Sottocasa, G.L. 675-680  
 Sowers, J.R. 263-269  
 Spaggiari, M. 179-184  
 Spurlock, G. 365-368  
 Stinnesbeck, B. 387-393  
 Stirling, C. 83-88  
 Stockley, R.A. 469-474  
 Sturani, A. 49-56  
 Szopa, T.M. 567-572  
 Taggart, G. 63-70  
 Taylor, K.W. 567-572  
 Terribile, M. 255-261  
 Teubl, I. 411-418  
 Thervet, F. 545-552  
 Thompson, R.P.H. 395-399  
 Thornley, C. 529-535  
 Tiribelli, C. 675-680  
 Toner, J.M. 475-477  
 Trevisan, A. 123-126  
 Trowbridge, E.A. 419-425  
 Unger, Th. 35-43  
 Vandongen, R. 601-604  
 Vessby, B. 581-587  
 Vetter, H. 45-47  
 Vince, A.J. 193-199  
 Vonk, R.J. 127-134  
 Von Werder, K. 291-299  
 Waeber, B. 485-488  
 Wald, H. 523-528  
 Wallis, P.J.W. 57-62  
 Ward, A. 631-638  
 Waterlow, J.C. 193-199, 271-282  
 Watson, M.L. 159-164, 537-543  
 Watts, J.McK. 589-596  
 Webb, D.J. 483-484  
 Weber, P.C. 291-299  
 Wedzicha, J.A. 57-62  
 Weinstock, M. 489-493  
 Welsh, K. 631-638  
 Whiteside, E.A. 71-78  
 Whiting, M.J. 589-596  
 Wilkinson, M.R. 311-319, 321-326  
 Williams, R. 247-253, 701-707  
 Wilson, P.D. 433-439  
 Winning, A.J. 215-225  
 Witzgall, H. 291-299  
 Woodcock, B.E. 449-454  
 Wrong, O.M. 193-199  
 Zanelli, J.M. 171-177  
 Zechner, R. 411-418  
 Zidek, W. 45-47  
 Zoob, S.N. 15-21

## 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.

- Abdomen, breathing 401-406  
 Absorption, intestinal 97-100  
 Accessory muscles of respiration 1-10\*  
 Acetate, bile acid clearance 63-70  
*N*-Acetyl- $\beta$ -D-glucosaminidase, glycoprotein radioimmunoassay 529-535  
 Acid-base equilibrium 301-309  
 Acipimox, adipose tissue 83-88  
 Acute-phase reaction, disease 233-238  
 Adenosine deaminase, deficiency 561-565  
 Adenosine triphosphatase  
   adrenaline 517-521  
   leucocytes 143-149  
 Adenylate cyclase  
   parathyroid hormone bioassay 311-319, 321-326  
   sweat gland 433-439  
 Adipose tissue, acipimox 83-88  
 Adrenaline  
   alcoholism 71-78  
   angiotensin II hypertension 621-624  
   ion flux, leucocytes 517-521  
   metabolism 613-619\*  
 Adrenoceptors  
   catecholamines 613-619\*  
   limb vasoregulation, heart failure 659-667  
 $\beta$ -Adrenoceptors, leucocyte ion flux 517-521  
 Aerosol, airway anaesthesia 215-225  
 Age, urinary prostaglandins 601-604  
 Airway anaesthesia 215-225  
 Alanine  
   myotonic dystrophy 151-157  
   urea synthesis 201-208  
   whole-body protein synthesis 271-282  
 Alcoholic myopathy 693-700  
 Alcoholism, plasma catecholamines 71-78  
 Aldosterone  
   acute volume expansion 263-269  
   angiotensin II 291-299  
   angiotensin converting enzyme 625-630  
   exercise, naloxone 185-191  
   sodium intake 387-393  
   volume depletion 545-552  
 Aldosteronism, dopamine and angiotensin II 291-299  
 Alkalosis, dietary potassium depletion 301-309  
 Allopurinol, xanthine oxidase 561-565  
 Amino acids, whole-body protein synthesis 271-282  
 Ammonia, endogenous urea 193-199  
 Amyloid 'degrading factor activity' 333-339  
 Anaerobiosis, treadmill and bicycle exercise 327-332  
 Angiotensin II  
   adrenaline 621-624  
   aldosterone, dopamine 291-299  
   18-hydroxycorticosterone, dopamine 291-299  
   measurement 483-484  
   noradrenaline 621-624  
   thirst 669-674  
   vasopressin 669-674  
 Angiotensin converting enzyme, aldosterone 625-630  
 Antibiotics, cysteine proteinase activity 469-474  
 Anticonvulsants 113-122\*  
 Antidiuretic hormone, volume depletion, diabetes 545-552  
 Arachidonic acid, platelets 581-587  
 Arginine vasopressin, brain 35-43  
 Aspartate  
   excitatory neurotransmitter antagonists 113-122\*  
   whole-body protein synthesis 271-282  
 Asthma  
   mast cells 427-432  
   sodium cromoglycate 227-232  
 Atrial receptors, diuresis 243-246  
 Baroreflex  
   angiotensin II hypertension 621-624  
   carotid 631-638  
   catecholamines 503-510  
   salt hypertension 489-493  
 Becker muscular dystrophy, electrolytes 379-385  
 Bicarbonate, intestinal absorption 97-100  
 Bile, gallstone formation 589-596  
 Bile acids  
   cholestasis 127-134  
   sulphated, cholestasis 127-134  
   urinary excretion 63-70

- Bile duct obstruction  
 bile acids 63-70  
 hepatic bilirubin 341-347
- Bile flow 341-347
- Biliary excretion  
 bile acids 63-70  
 25-hydroxyvitamin D 687-692
- Biliary lipids 127-134
- Bilirubin  
 hepatic transport 341-347  
 rifamycin SV 675-680
- Bilitranslocase, rifamycin SV 675-680
- Bleomycin-detectable iron 463-467
- Blood flow  
 finger, menstrual cycle 639-645  
 limb, heart failure 659-667  
 muscle 503-510  
 splanchnic 23-28
- Blood pressure  
 ambulatory patient 485-488\*  
 exercise, naloxone 185-191  
 metkephamid 209-213  
 orthostatic hypotension 71-78  
 water deprivation 647-657
- Body composition, weight loss 455-462
- Body water 349-355, 379-385
- Borderline hypertension 631-638
- Brain peptides, hypertension 35-43
- Brattleboro rat 93-96
- Breathing  
 control 215-225  
 pattern, peritoneal dialysis 401-406
- Bronchoalveolar lavage  
 cathepsin  $\beta$ -like activity 469-474  
 mast cells 427-432
- Bronchial asthma, inflammatory mediators 103-112\*
- Bronchial spasm, sodium cromoglycate 227-232
- Bronchoconstriction, sodium cromoglycate 227-232
- Calcium  
 adenylate cyclase bioassays 311-319  
 antagonist 495-501  
 calmodulin 407-410  
 leucocytes, sodium transport 239-241  
 platelets, hypertension 179-184  
 verapamil 239-241
- Calcium oxalate, crystal inhibition 369-371
- Calmodulin, radioimmunoassay 407-410
- Captopril  
 forearm haemodynamics, heart failure 659-667  
 parasympathetic activity 49-56
- Carbon monoxide, gas transfer 57-62
- Carcinoma, liver bacterial infection 247-253\*
- Cardiac autonomic dysfunction, antidiuretic hormone 545-552
- Cardiac vagal action, cold potentiation 165-169
- Cardiopulmonary receptors, plasma catecholamines 503-510
- Cardiovascular diseases, blood pressure 485-488\*
- Carotid baroreflex 631-638
- Catecholamines  
 alcoholism 71-78  
 cardiopulmonary receptors 503-510  
 exercise, naloxone 185-191  
 leucocyte ion flux 517-521  
 metabolism 613-619\*  
 sodium intake 387-393
- Cathepsin B, lung secretions 469-474
- Cation transport, essential hypertension 511-515
- Children, urinary prostaglandins 601-604
- Chloride, essential hypertension 45-47
- Cholestasis, endogenous bile acids 127-134
- Cholesterol  
 crystal formation, bile 589-596  
 synthesis 83-88
- Chronic peritoneal dialysis, abdominal breathing 401-406
- Cirrhosis  
 bile-duct obstruction 341-347  
 liver bacterial infection 247-253\*  
 liver-specific autoantibodies 123-126
- Clonidine, neuropeptides 35-43
- Cobalamin  
 binding, liver and kidney 357-364  
 liver retention 553-560
- Coeliac disease, jejunal transglutaminase 573-579
- Cold, potentiated cardiac vagal action 165-169
- Cold pressor test 49-56
- Computer technique, curve-fitting 201-208
- Corticosteroids, cysteine proteinase activity 469-474
- C-reactive protein, disease 233-238
- Creatinine  
 alcoholic myopathy 693-700  
 muscular dystrophy 379-385
- Crystal nucleation, gallstones 589-596
- Crystallization inhibitors, oxalate 369-371
- Curve-fitting, computer 201-208
- Cyclic adenosine diphosphate, sweat glands 433-439, 441-447
- Cysteine proteinase, lung secretions 469-474
- Cystic fibrosis, sweat 441-447
- Cytochemical bioassay, parathyroid hormone 171-177
- Deoxyadenosine, peritoneal macrophages 561-565

- Deoxycorticosterone acetate-salt rats 407-410  
 Dexamethasone, prostanoid formation 681-685  
 Diabetes insipidus, prostaglandin excretion 93-96  
 Diabetes mellitus, volume depletion and anti-diuretic hormone 545-552  
 Dialysis, peritoneal, abdominal breathing 401-406  
 Diaphragm  
   peritoneal dialysis 401-406  
   respiratory actions 1-10\*  
 Diet, platelet membrane fatty acids 449-454  
 Diuretic therapy, plasma urea 255-261  
 1,25-Dihydroxyergocalciferol, vitamin D metabolism 135-141  
 1,25-Dihydroxyvitamin D, absorption 97-100  
 Diuresis, atrial receptors 243-246  
 Diving reflex 49-56  
 DOCA *see* Deoxycorticosterone acetate  
 Dopamine  
   angiotensin II 291-299  
   natriuresis, volume expansion 263-269  
 Drinking, angiotensin II 669-674  
 Duchenne muscular dystrophy, electrolytes 379-385  
 Dyspnoea  
   airway anaesthesia 215-225  
   exercise 327-332  
  
 Eicosapentaenoic acid, membrane phospholipid 449-454  
 Enalapril, aldosterone 625-630  
 $\beta$ -Endorphin, brain 35-43  
 Energy metabolism, quadriceps muscle 597-600  
 Entero-hepatic circulation, cholestasis 127-134  
 Ergocalciferol, vitamin D metabolism 135-141  
 Erythrocyte  
   cation transport 511-515  
   haemodialysis 29-33  
 Essential hypertension  
   blood cell cation transport 511-515  
   frusemide 159-164  
   platelet calcium 179-184  
 Exchangeable sodium, muscular dystrophy 379-385  
 Exercise  
   baroreflex function 631-638  
   blood pressure, naloxone 185-191  
   obstructive airways disease 327-332  
   ventilation 215-225  
  
 Faeces, ammonia and endogenous urea 193-199  
 Fat, body composition 349-355  
 Fat-free body mass 455-462  
  
 Fatigue, respiratory muscles 1-10\*  
 Fatty acids  
   platelet membrane 449-454  
   platelet phospholipids 581-587  
 Fetus, growth retardation 395-399  
 Fibrinogen, liver disease 701-707  
 Fibrinopeptide, liver disease 701-707  
 Fish oil, platelet membrane fatty acids 449-454  
 Forearm blood flow, cardiopulmonary receptors 503-510  
 Frusemide  
   essential hypertension 159-164  
   leucocyte sodium, potassium transport 89-91  
  
 Gallstone formation 589-596  
 Gas transfer, carbon monoxide 57-62  
 Gastrectomy, liver cobalamin 553-560  
 Gilbert's syndrome, bilitranslocase 675-680  
 Gliadin, jejunal transglutaminase 573-579  
 Glomerular sclerosis 15-21  
 Glucocorticoids, prostanoid formation 681-685  
 Glucose, pancreatic islet cell function 567-572  
 Glucose tolerance, venous alanine 151-157  
 Glucuronyltransferase, 25-hydroxyvitamin D<sub>3</sub> 687-692  
 Glutamate, excitatory neurotransmitter antagonists 113-122\*  
 Glutamic acid diethylester 113-122\*  
 Glutamine, whole-body protein synthesis 271-282  
 Glycine, whole-body protein synthesis 271-282  
 Glycocholate excretion 63-70  
 Granulocytes, intrasplenic kinetics 283-289  
 Gunn rat, 25-hydroxyvitamin D 687-692  
  
 Haemodialysis, erythrocyte survival 29-33  
 Haemodynamics, renal artery stenosis 479-482  
 Haemoperfusion, fibrinogen 701-707  
 Heart  
   atrial receptor diuresis 243-246  
   captopril 49-56  
   exercise, naloxone 185-191  
   rate control 185-191, 489-493  
   vagal action, cold 165-169  
 Heart failure, limb vasoregulation 659-667  
 Hepatitis  
   bacterial infection 247-253\*  
   liver-specific autoantibodies 123-126  
 Histamine, mast cells 427-432  
 Hydrogen ion  
   transfer, potassium depletion 301-309  
   urinary prostaglandin E 475-477

- D-3-Hydroxybutyrate, human pancreatic islet cell function 567-572
- 18-Hydroxycorticosterone, angiotensin II 291-299
- 25-Hydroxyergocalciferol, vitamin D metabolism 135-141
- 25-Hydroxyvitamin D  
absorption 97-100  
biliary excretion 687-692
- Hypercalcaemia, ergocalciferol intoxication 135-141
- Hypercholesterolaemia 83-88
- Hyperinsulinaemia, venous alanine 151-157
- Hyperparathyroidism 29-33, 321-326
- Hypertension  
aldosterone 625-630  
angiotensin II 621-624  
blood cell cation transport 511-515  
borderline 631-638  
dopamine 291-299  
frusemide 159-164  
intracellular chloride 45-47  
neuropeptides 35-43  
platelet calcium 179-184  
renovascular 609-612
- Hypertension, experimental  
clip 11-14  
Goldblatt 11-14  
portal 23-28, 605-607  
salt 489-493
- Hypertriglyceridaemia 83-88
- Hypokalaemia, adrenaline 517-521
- Hyponatraemia, acute renal failure 523-528
- Hypo-osmolality, acute renal failure 523-528
- Hypotension, orthostatic 71-78
- Hypoxia, exercise 327-332
- Hypoxic lung disease 57-62
- Idiopathic haemochromatosis 463-467
- Immunoassay, parathyroid hormone 171-177
- Immunodeficiency, superoxide radicals 561-565
- Indium (<sup>111</sup>In)-labelled granulocytes, kinetics 283-289
- Indomethacin, experimental portal hypertension 605-607
- Inflammation, serum amyloid A protein and C-reactive protein 233-238
- Inflammatory lung disease, cysteine proteinase 469-474
- Inflammatory mediators, mast cell-dependent 103-112\*
- Inhibitin, sodium transport 365-368
- Insulin, biosynthesis 567-572
- Insulin resistance, myotonic dystrophy 151-157
- Intercostal muscles 1-10\*
- Ion channels, leucocytes 517-521
- Iron overload 463-467
- Ischaemia, muscle 597-600
- Islet cells, glucose and D-3-hydroxybutyrate 567-572
- Jejunum  
cholesterol synthesis 83-88  
transglutaminase 573-579
- Kallikrein, frusemide 159-164
- Kallikrein synthesis, sodium chloride infusion 537-543
- 6-Ketoprostaglandin F<sub>1α</sub> excretion, children 601-604
- Kidney  
bile acids excretion 63-70  
cobalamin binding 357-364  
frusemide, essential hypertension 159-164  
neuropeptide Y 373-377  
plasma osmolality 523-528  
prostaglandin E 475-477  
transplantation 15-21
- Kidney disease  
renal failure 15-21, 401-406, 523-528  
Tamm-Horsfall glycoprotein radioimmunoassay 529-535  
tubular necrosis 523-528
- Knee operation, quadriceps muscle 597-600
- Lecithin: cholesterol acyltransferase, plasma lipoprotein 411-418
- Leucine, whole-body protein synthesis 271-282
- Leucocytes  
adrenaline, ion flux 517-521  
cation transport 511-515  
Na<sup>+</sup>, K<sup>+</sup>-ATPase 143-149  
sodium/potassium transport 89-91, 239-241  
verapamil, sodium transport 239-241
- Leu-enkephalin, brain 35-43
- Leukaemic cells, culture 365-368
- Linoleic acid, platelets 581-587
- Lipid peroxidation 463-467
- Lipolysis, acipimox 83-88
- Lipoproteins  
metabolism 411-418  
platelets 581-587
- Liver  
bacterial infection 247-253\*  
bilitranslocase 675-680  
blood flow 23-28  
cobalamin binding 357-364, 553-560  
fibrinogen 701-707

- Liver (*continued*)  
 25-hydroxyvitamin D 687-692  
 membrane antibody 123-126  
 perfusion 553-560, 701-707  
 specific autoantibodies 123-126
- Liver disease  
 bacterial infection 247-253\*  
 platelets 701-707
- Low-renin hypertension, dopamine 291-299
- Lung  
 cysteine proteinase 469-474  
 hypoxic disease 57-62  
 reflex bronchoconstriction 227-232
- Lysine, whole-body protein synthesis 271-282
- Macrophage, adenosine deaminase 561-565
- Mast cells  
 bronchial asthma 103-112\*  
 bronchoalveolar lavage 427-432  
 bronchoconstriction 227-232
- Menstrual cycle, finger blood flow 639-645
- Metabolic alkalosis, potassium depletion 301-309
- Metabolism, catecholamines 613-619\*
- N*-Methyl-D-aspartate 113-122\*
- 3-Methylhistidine, alcoholic myopathy 693-700
- Metkephamid, cardiovascular properties 209-213
- Metoclopramide, aldosterone and 18-hydroxy-corticosterone 291-299
- Muscle, skeletal  
 blood flow 503-510  
 energy metabolism 597-600  
 protein turnover 693-700
- Muscular dystrophy, electrolytes 379-385
- Myeloid leukaemia, inhibition 365-368
- Myocardial infarction, platelet volume 419-425
- Myotonic dystrophy, venous alanine 151-157
- Naloxone, exercise 185-191
- Natriuresis  
 acute volume expansion 263-269  
 neuropeptide Y 373-377
- Nephrotoxic nephritis 15-21
- Neuropeptide Y, kidney 373-377
- Neuropeptides, brain 35-43
- Neurotransmitters, amino acid antagonists 113-122\*
- Neutron activation, body protein determination 349-355
- Neutrophils, liver disease 247-253\*
- Nifedipine, salt-induced hypertension 495-501
- Nitrogen  
 body composition 349-355  
 total body 455-462
- Nitrogen (<sup>15</sup>N), compartmentation 271-282
- Noradrenaline  
 alcoholism 71-78  
 angiotensin II hypertension 621-624  
 metabolism 613-619\*  
 metkephamid 209-213
- Obstructive airways disease, exercise 327-332
- Oestrogen, finger blood flow 639-645
- Ohm's law, renal haemodynamics 479-482
- Opioids  
 metkephamid 209-213  
 receptors 185-191
- Orthostasis, limb haemodynamics 659-667
- Orthostatic hypotension 71-78
- Osmoregulation, angiotensin II 669-674
- Oxalate, crystal inhibition 369-371
- Oxygen radicals 463-467
- Oxytocin, brain 35-43
- Parasympathetic activity, captopril 49-56
- Parathyroid hormone  
 adenylate cyclase bioassay 311-319, 321-326  
 pharmacokinetics 171-177
- Parathyroidectomy, serum parathyroid hormone bioassay 311-319
- Pentosan polysulphate, crystal inhibition 369-371
- pH  
 muscle intracellular 597-600  
 urinary prostaglandin E 475-477
- Phenylephrine, baroreflex sensitivity 489-493
- Phospholipase A<sub>2</sub>, prostanoid formation 681-685
- Phospholipid, platelet membrane 449-454
- Phosphorus, intestinal absorption 97-100
- Plasma-membrane vesicles, rifamycin SV 675-680
- Plasma renin activity, angiotensin converting enzyme 625-630
- Platelets  
 aggregation 449-454  
 calcium 179-184  
 fatty acids 581-587  
 liver disease 701-707  
 volume, myocardial infarction 419-425
- Polycythaemia 57-62
- Portal hypertension  
 indomethacin 605-607  
 splanchnic blood flow 23-28
- Potassium  
 dietary depletion 301-309  
 homeostasis 625-630  
 muscular dystrophy 379-385  
 prostaglandin excretion 601-604

- Potassium (*continued*)  
 total body 455-462  
 transport 89-91, 511-515, 517-521  
 vascular responses 101-102
- Pregnancy, maternal zinc 395-399
- Progesterone, finger blood flow 639-645
- Prolactin, angiotensin II 291-299
- Prostacyclin, lung mast cells 103-112\*
- Prostacyclin synthesis, sodium chloride infusion 537-543
- Prostaglandin E, urinary excretion 475-477
- Prostaglandin E<sub>2</sub>  
 diabetes insipidus 93-96  
 excretion, children 601-604
- Prostaglandin F<sub>2α</sub>, diabetes insipidus 93-96
- Prostaglandin I<sub>2</sub>, sodium infusion 537-543
- Prostaglandins  
 dexamethasone 681-685  
 frusemide 159-164  
 lung mast cells 103-112\*  
 metabolism 581-587  
 portal hypertension 605-607  
 sodium intake 387-393
- Prostanoid formation, dexamethasone 681-685
- Protease, alcoholic myopathy 693-700
- Protein, body composition 349-355
- Protein synthesis, whole-body 271-282
- Pseudohypoparathyroidism 321-326
- Raynaud's phenomenon, menstrual cycle 639-645
- Receptors  
 cobalamin 357-364  
 low pressure 609-612
- Renal calculi, Tamm-Horsfall glycoprotein radio-immunoassay 529-535
- Renal failure, nephrotoxic nephritis 15-21
- Renin  
 exercise, naloxone 185-191  
 sodium chloride infusion 537-543  
 volume depletion, diabetes 545-552
- Renin-aldosterone system, renovascular hypertension 609-612
- Renin-angiotensin system  
 sodium intake 387-393  
 vasoregulation, heart failure 659-667  
 water deprivation 647-657
- Respiration  
 function tests 401-406  
 muscles 1-10\*
- Reticulin, 'degrading activity' 333-339
- Rheumatoid arthritis, serum 'degrading factor activity' 333-339
- Rifamycin SV, bilitranslocase 675-680
- Sabra hypertensive rat strain 495-501
- Salt, dietary intake 489-493
- Salt hypertension, experimental 489-493, 495-501
- Serum amyloid A protein, disease 233-238
- Skeletal muscle *see* Muscle, skeletal
- Smoking  
 platelet volume 419-425  
 zinc and pregnancy 395-399
- Sodium  
 acute renal failure 523-528  
 acute volume expansion 263-269  
 balance 387-393  
 efflux 365-368  
 excretion rate 79-82  
 hypertension 489-493  
 inhibition 365-368  
 intracellular 11-14  
 kallikrein synthesis 537-543  
 muscular dystrophy 379-385  
 prostacyclin synthesis 537-543  
 prostaglandin excretion 93-96, 387-393  
 sweat 441-447  
 transport 11-14, 89-91, 239-241, 365-368, 511-515, 517-521
- Spleen, granulocyte pool 283-289
- Spontaneously hypertensive rats, platelet calcium 179-184
- Sulphated bile acids, cholestasis 127-134
- Sulphated glycolithocholic acid, cholestasis 127-134
- Sulphur dioxide, bronchoconstriction 227-232
- Superoxide anions, immunodeficiency 561-565
- Sweat, cystic fibrosis 441-447
- Sweat glands  
 adenylate cyclase 433-439  
 salt reabsorption 441-447
- Sympathetic nervous system  
 limb vasoregulation, heart failure 659-667  
 neuropeptide Y 373-377  
 vascular tone 503-510
- Sympathoadrenal activity, angiotensin II 621-624
- Systems theory, urea synthesis 201-208
- Tamm-Horsfall glycoprotein, radioimmunoassay 529-535
- Taurocholate excretion 63-70
- Thirst, angiotensin II 669-674
- Thromboxane  
 dietary fish oil 449-454  
 synthesis 79-82
- Thromboxane A<sub>2</sub>, lung mast cells 103-112\*
- Thymocytes, sodium pump activity 11-14
- Tissue culture, human pancreatic islet cells 567-572
- Transcobalamin II, binding sites 357-364
- Transglutaminase, jejunum 573-579

- Transport  
  cation, blood cells 511-515, 517-521  
  inhibition 365-368  
  potassium 89-91, 511-515, 517-521  
  sodium 11-14, 89-91, 239-241, 365-368,  
    511-515, 517-521
- Uraemia, diuretic therapy 255-261
- Urea  
  diuretic therapy, uraemia 255-261  
  faecal ammonia 193-199  
  metabolism 201-208
- Urine  
  prostaglandin E, pH 475-477  
  prostaglandins, children 601-604  
  protein 529-535  
  stones, oxalate 369-371
- Vagus nerve, control of breathing 215-225
- Valsalva manoeuvre, captopril 49-56
- Vasoconstriction, neuropeptide Y 373-377
- Vasopressin  
  angiotensin II 669-674  
  water deprivation 647-657
- Verapamil, leucocyte sodium transport 239-241
- Vitamin D  
  intoxication 135-141  
  metabolism 97-100, 135-141
- Volume expansion 263-269
- Water, body  
  composition 349-355  
  muscular dystrophy 379-385  
  volume expansion 263-269
- Water deprivation, blood pressure 647-657
- Water immersion, renin-aldosterone system 609-612
- Weight loss, body composition 455-462
- Xanthine oxidase, macrophages 561-565
- Zeta potential, urinary stones 369-371
- Zinc, pregnancy 395-399