

PUBLISHED BY
THE MEDICAL RESEARCH SOCIETY AND THE BIOCHEMICAL SOCIETY

© The Medical Research Society and the Biochemical Society 1989
ISSN 0143-5221

Printed in Great Britain by Whitstable Litho Ltd, Whitstable, Kent

ACKNOWLEDGMENTS

The Editorial Board of *Clinical Science* gratefully acknowledges the assistance given by the following referees during the year 1988.

- Aaronson, P.
Abdel-Rahman, A.R.A.
Aber, G.M.
Acheson, K.J.
Adams, J.F.
Adams, L.
Adu, D.
Alberti, K.G.M.M.
Alvestrand, A.
Amiel, S.
Anderson, J.V.
Angell-James, J.E.
Appleton, D.R.
Ash, S.A.
Atherton, J.C.
Atkinson, M.
Atlas, S.A.
Axon, A.T.R.
- Badoer, E.
Ball, S.G.
Balment, R.J.
Band, D.M.
Baraldi, M.
Barer, G.R.
Barnes, P.
Barnett, D.B.
Baron, D.N.
Bateman, D.N.
Bates, P.
Baylis, P.H.
Belch, J.J.F.
Belchetz, P.E.
Bennet, W.M.
Bennett, E.D.
Bennett, T.
Berg, K.
Besser, G.M.
Betteridge, J.
Birchall, J.
Boughton, B.J.
Bouloux, P.
Boulton, A.J.M.
Brain, S.
Brand, S.C.
Brearley, C.J.
Brody, M.J.
Broughton-Pipkin, F.
Brown, J.
Brown, S.B.
Bruckdorfer, K.R.
Brunner, H.R.
Bulow, J.
Bunch, C.
- Burden, A.C.
Burnett, D.
Calam, J.
Calverley, P.M.A.
Cameron, I.R.
Campbell, E.J.M.
Campbell, I.T.
Candy, D.
Caro, C.G.
Cattell, W.R.
Catterall, J.R.
Causon, R.C.
Cederblad, G.
Challis, R.A.J.
Chanarin, I.
Chapel, H.M.
Chapman, R.W.
Chilvers, E.R.
Christensen, N.J.
Christie, W.W.
Chung, F.
Clarke, R.W.
Clausen, T.
Clelland, J.
Cloix, J.-F.
Cobbe, S.
Cochrane, G.M.
Cockcroft, A.
Cohen, J.
Cohen, R.D.
Cole, P.J.
Coleman, R.
Collins, P.
Connell, J.M.C.
Conway, F.J.
Coote, J.H.
Corrall, R.J.
Cowan, J.C.
Cranston, W.
Cryer, P.E.
Culling, W.
Cummin, A.R.C.
Cumming, A.D.
Cumming, G.
Cundy, T.
Cuss, F.M.
- Dale, G.
Daley Yates, P.T.
Dascombe, M.J.
Davenport, A.P.
Davies, M.J.
Davison, J.M.
Dawes, J.
- Debnam, E.S.
de Wardener, H.E.
Dobbs, S.M.
Dominiczak, A.
Dooley, J.
Dormandy, J.
- Eckland, D.J.A.
Edwards, R.H.T.
Edwards, R.J.
Elia, M.
Elias, E.
Elliot, H.
Ellory, J.C.
El Nahas, A.M.
Elstein, M.
Emery, P.W.
Esler, M.
Ewing, D.
- Farthing, M.
Fawcett, P.R.W.
Feehally, J.
Feher, M.
Fell, G.S.
Fellows, I.W.
Ferguson, A.
Ferriss, J.B.
Firth, J.D.
Fitzsimons, J.J.
Fletcher, J.
Foale, R.
Folkow, B.
Foote, J.W.
Forbes, A.
Fox, K.A.A.
Franks, S.
Frayn, K.N.
Fritz, H.
Funder, J.W.
Furst, P.
- Ganten, D.
Gardiner, S.M.
Gardner, M.L.G.
Garland, H.O.
Garlick, P.J.
Garrett, J.R.
Garrow, J.
Geddes, D.
Gemmell, C.
Gibson, G.J.
Gokal, R.
Goldberg, A.
Goode, A.W.
- Goodship, T.H.J.
Gove, C.
Gray, R.S.
Greaves, M.
Greening, A.
Griffiths, E.
Grimble, G.
- Haddy, F.J.
Hall, G.M.
Hall, J.A.
Halliday, D.
Hampton, I.F.G.
Hardman, M.
Hardy, S.J.S.
Harper, A.E.
Harrap, S.B.
Hartley, G.
Haslam, P.L.
Haslett, C.
Hastewell, J.G.
Hawkins, P.N.
Haylor, J.
Hayslett, J.
Heagerty, A.M.
Heath, D.A.
Heatley, R.V.
Heaton, A.
Henderson, B.
Heptinstall, S.
Herbert, J.
Higgs, C.M.B.
Hill, J.
Hilton, P.J.
Himsworth, R.L.
Hockaday, T.D.R.
Holgate, S.T.
Hommel, E.
Hornych, A.
Hosker, J.
Howell, S.L.
Huehns, E.R.
Hughes, A.D.
Hughes, J.M.B.
Hughes, M.
Hughes, R.D.
Hughes, R.E.
Hull, D.
Hutchinson, W.L.
- Imms, F.J.
Ind, P.W.
Isles, C.G.
- Jackson, D.
Jackson, M.J.
Jackson, R.L.
Jacyna, M.R.
James, O.F.W.
James, W.P.T.
Jardine, A.
Jarrett, R.J.
Jeffrey, R.F.
Jepson, M.M.
Johansson, B.-L.
Johns, E.J.
Johnson, A.W.
Johnston, A.
Johnston, D.G.
Johnstone, R.W.G.
Jones, C.
Jones, D.A.
Jones, N.L.
Jones, P.W.
Jung, R.
- Kalsheker, N.
Kanis, J.A.
Karemaker, J.M.
Karim, F.
Kay, J.D.S.
Kellett, G.L.
Kendall, M.J.
Kennedy, L.
Knapp, M.F.
Kooner, J.
Kopelman, P.G.
Kopple, J.D.
Korsgaard, N.
Kostner, G.
Kramps, H.
Kuksis, A.
- Laker, M.F.
Lane, D.
Langman, M.J.
Lant, A.
Lassen, N.A.
Leaning, M.S.
Lease, H.J.
Lebrec, D.
Leckie, B.J.
Ledingham, J.G.G.
Lee, M.R.
Lee, T.
Leese, H.J.
Leonard, J.V.
Lever, A.F.
Lewis, B.

- Lewis, M.J.
 Leyssac, P.P.
 Lipsitz, L.A.
 Little, R.A.
 Livne, A.
 Lobley, G.
 Lockhart, A.
 Lund, P.
- MacClean, D.
 MacDermot, J.
 MacFarlane, G.T.
 MacGregor, G.A.
 MacMathuna, P.
 MacNee, W.
 Maguire, G.
 Mahler, R.
 Man in te Veld, A.
 Manning, A.
 Mansell, P.I.
 Marshall, J.
 Martin, J.F.
 Mary, D.A.S.G.
 Mason, M.J.
 Matthews, D.R.
 Matthias, C.J.
 Maughan, R.J.
 Maxwell, D.C.
 McCarthy, D.
 McColl, K.
 McCormack, D.
 McFarlane, I.G.
 McGivan, J.D.
 McGregor, K.H.
 McHardy, G.V.R.
 McIntyre, N.
 McKenna, T.
 McKinnes, G.
 McPherson, M.A.
 McVicar, A.
 McWilliam, P.N.
 Medbak, S.
 Mendelsohn, F.A.O.
 Meyer, P.
 Milligan, D.W.
 Mills, I.H.
 Millward, B.A.
 Mimran, A.
 Mitchell, S.C.
 Moniz, C.
 Monson, J.P.
 Moorhead, J.F.
- Moreland, T.A.
 Murphy, C.
 Myant, N.B.
 Morgan, M.Y.
 Morice, A.H.
 Morris, R.C., Jr
 Morrison, H.M.
 Morton, J.J.
 Mowat, A.
 Moyses, C.
- Nahorski, S.R.
 Nash, G.
 Natrass, M.
 Neale, G.
 Newham, D.
 Newman, S.P.
 Newsholme, E.A.
 Ng, L.
 Nimmo, I.A.
 Noble, A.
 Northfield, T.
 Nye, P.C.G.
- O'Brien, E.
 Ockleford, C.D.
 O'Gorman, D.
 O'Hare, J.P.
 Oliveira, D.B.
 Orchard, C.H.
 Osterby, R.
- Panos, M.
 Parker, K.H.
 Parsons, D.
 Parving, H.-H.
 Pasvol, G.
 Patrick, J.M.
 Patterson, C.R.
 Pearson, J.D.
 Penny, W.J.
 Perrett, D.
 Peters, T.J.
 Petrie, J.C.
 Potts, D.J.
 Poulter, L.
 Pounder, R.
 Powell-Tuck, J.
 Puddey, I.B.
- Puschett, J.
 Pye, S.
- Radda, G.K.
 Raine, A.E.G.
 Rankin, A.J.
 Rawbone, R.G.
 Reckless, J.
 Rees, A.J.
 Rees, J.
 Reichen, J.
 Reid, J.
 Reid, W.
 Rennie, M.J.
 Richards, A.M.
 Riemersma, R.
 Robinson, B.
 Rognes, B.C.
 Rogues, B.
 Rothwell, N.J.
 Roulston, J.E.
 Rubin, P.C.
 Rudman, D.
 Rumsby, M.G.
 Russell, G.I.
- Saklatvala, J.
 Sandercock, P.A.G.
 Saunders, A.
 Schachter, M.
 Schatzmann, J.
 Schoner, W.
 Schoolwerth, A.
 Schroter, R.C.
 Scott, A.R.
 Scott, J.
 Sebastian, A.
 Seckl, J.R.
 Seed, M.
 Segal, A.
 Segal, S.
 Semple, P.F.
 Semple, S.J.G.
 Shale, D.
 Shannon, R.P.
 Sherwood, T.
 Shirley, D.G.
 Shore, A.C.
 Short, A.H.
 Shuttleworth, A.
 Sibley, C.P.
 Sikora, K.
- Simchowitz, L.
 Simmons, N.L.
 Singer, D.R.J.
 Smith, G.
 Smith, P.H.
 Snashall, P.D.
 Snow, H.M.
 Solomon, L.
 Sonksen, P.H.
 Soutar, A.K.
 Spence, V.A.
 Stanley, N.N.
 Stanton, B.
 Steel, C.M.
 Stephenson, F.A.
 Steward, M.C.
 Stewart, G.W.
 Stock, M.J.
 Stokes, M.
 Stradling, J.R.
 Struthers, A.D.
 Stuart, J.
 Stubbs, M.
 Sudlow, M.F.
 Sugden, M.C.
 Sugden, P.H.
 Summerill, R.
 Sutters, M.
 Swainson, C.P.
 Swales, J.D.
- Taskinen, M.-R.
 Taylor, C.M.
 Taylor, G.
 Taylor, R.
 Thakkar, R.V.
 Thesloff, I.
 Thom, S.
 Thomas, P.
 Thomas, T.H.
 Thompson, C.
 Thompson, M.
 Thompson, R.P.H.
 Thomsen, K.
 Thomson, N.C.
 Thurston, H.
 Tiribelli, C.
 Tomkins, A.
 Tomson, C.R.V.
 Tooke, J.E.
 Tournier, J.M.
 Tree, M.
 Turner, N.
- Unger, T.
- Vallotton, M.B.
 Vasdev, S.C.
 Vernon, R.G.
 Verspaget, H.
 Vessby, B.
 Viberti, G.C.
 Visser, T.J.
- Wahle, K.W.J.
 Walker, J.
 Walker, M.G.
 Walker, P.D.
 Walls, J.
 Walter, S.J.
 Warnes, T.W.
 Warren, J.
 Watson, M.
 Watt, P.
 Weetman, A.P.
 Weir, D.
 Weissberg, P.L.
 Welbourne, T.
 Whiting, P.H.
 Widdicombe, J.T.
 Wilcox, R.G.
 Wilkins, M.R.
 Wilkinson, S.P.
 Will, E.J.
 Williams, A.
 Williams, B.C.
 Williams, C.
 Williams, S.R.
 Wimalawansa, S.J.
 Winterton, S.J.
 Wiseman, M.
 Woo, P.
 Wood, J.A.
 Woodhead, S.
 Wootton, R.
 Wootton, S.A.
 Worwood, M.
 Wraight, E.P.
 Wray, S.
 Wynick, D.
- Yates, M.S.
 York, D.
 Young, A.
 Young, E.
 Young, R.J.
 Zierler, K.

Volume 77

AUTHOR INDEX

- Adeoya, A.S. 395-400
Adler, A.J. 463-466
Airlie, M.A.A. 431-437
Akabane, S. 389-394
Albert, J.D. 113-120
Alberti, K.G.M.M. 383-388,
413-416
Al-Shamma, Y.M.H. 547-553
Anderson, D.C. 369-374
Antman, K.H. 501-507
Argilés, J.M. 357-364
Arisz, L. 105-111
Arteche, E. 473-478
Atlas, S.A. 177-182
Aynsley-Green, A. 413-416
- Badaloo, A. 93-97
Bahner, U. 529-534
Balzan, S. 375-381
Bannister, R. 85-92, 623-628
Barer, G.R. 515-520
Barnes, P.J. 439-443, 671-676
Barrett, R.J. 145-147
Barrow, L. 259-263
Bartlett, K. 413-416
Bassendine, M.F. 365-368
Beasley, R. 495-500
Beeley, J.M. 509-514
Bell, G.M. 177-182
Berenson, M.M. 473-478
Berlyne, G.M. 463-466
Bernstein, R.K. 177-182
Bhuiyan, A.K.M.J. 413-416
Bing, R.F. 395-400
Biver, P. 375-381
Bland, J.M. 171-176
Bloom, S.R. 85-92, 623-628
Bond, J. 61-67
Boppana, V.K. 637-641
Botta, D. 611-616
Boulton-Jones, J.M. 521-527
Braillon, A. 7-9
Brammar, W.J. 629-636
Brena, A. 501-507
Brennan, M.F. 113-120
Brindley, D.N. 453-461
Britton, J.R. 467-471
Brooks, D.P. 637-641
Brown, M.A. 599-604
Brown, M.J. 129-131
- Bruijnzeel, P.L.B. 297-304
Buckley, M.G. 253-258, 573-579
Bund, S.J. 167-170
Burnett, D. 35-41
Butler, P.C. 413-416
Bylund-Fellenius, A.-C. 485-493
- Cai, Y.N. 515-520
Calder, G.A. 329-336
Cappuccio, F.P. 337-342
Carnovali, M. 217-222
Caruso, C. 463-466
Castellani, S. 217-222
Cerini, R. 7-9
Chamba, A. 35-41
Chen, J.-L. 217-222, 535-539
Childs, C. 425-429
Christensen, N.J. 85-92, 149-155
Clarke, B.F. 589-597
Clarke, G.M. 561-566
Clayton, B.A. 495-500
Coe, S.A. 69-76
Colston, K.W. 171-176
Coppack, S.W. 663-670
Cortelli, P. 623-628
Coruzzi, P. 479-484
Costas, L.J.V. 407-411
Cowie, M.R. 223-228
Crea, A.E.G. 195-203
Critchley, D.R. 259-263
Culling, W. 229-236
- da Costa, D.F. 85-92
Dagher, G. 213-216
Dahllof, A.-G. 485-493
Damjær Nielsen, M. 319-322
Davenport, A.P. 129-131
Davenport, P.J. 425-429
Decaux, G. 351-355
de Jong, P.E. 55-60
Del Greco, F. 617-621
Del Rosso, A. 213-216
de Moor, E.A.M. 105-111
de Vasconcelos, P.R.L. 61-67
de Zeeuw, D. 55-60
Dhar, H. 663-670
Dimitriadis, G.D. 61-67
Dixon, M.S. 229-236
Doise, B. 213-216
- Dominiczak, A.F. 183-188
Dudley, C. 417-423
Dundas, C.R. 651-655
Durrington, P.N. 369-374
- Eadington, D. 589-597
Eder, J.P. 501-507
Eremin, O. 651-655
Esler, M.D. 605-610
Essen, P. 329-336
Evans, R.D. 357-364
Evans, T.W. 439-443
Ewing, D.J. 589-597
- Fantoni, M. 375-381
Farinaro, E. 337-342
Ferguson, K. 651-655
Ferwana, O.S. 77-84
Firth, J.D. 657-661
Fittes, D. 365-368
Flenley, D.C. 431-437
Fletcher, A. 167-170
Fosbraey, P. 85-92
Frayn, K.N. 663-670
Fribery, P. 605-610
Fukuda, K. 567-572
Fukui, K. 643-650
Fussey, S.P.M. 365-368
- Gadsbøll, N. 319-322
Garlick, P.J. 329-336, 651-666
Geiger, H. 529-534
Genovesi-Ebert, A. 375-381
Ghielmi, S. 479-484
Ghione, S. 375-381
Gillespie, C. 43-48
Giorgione, N. 337-342
Goode, A.W. 133-138
Goodship, T.H.J. 445-451
Gorden, C. 369-374
Gove, C. 657-661
Graves, S.W. 501-507
Greenhalgh, P.M. 121-127
Griffin, H.E. 637-641
Grunstein, R.R. 407-411
- Hadengue, A. 7-9
Hainsworth, R. 547-553

- Hammarqvist, F. 611-616
 Hartley, B. 43-48
 Hartley, G.H. 265-272, 445-451
 Haskard, D. 195-203
 Heagerty, A.M. 167-170
 Heaton, A. 383-388
 Heidland, A. 529-534
 Heseltine, D. 265-272
 Heys, S.D. 651-655
 Hickish, T. 171-176
 Higgs, N.B. 161-166
 Hill, S.L. 35-41
 Hilsted, J. 149-155
 Hilton, P.J. 189-194
 Hinks, L.J. 495-500
 Hirata, Y. 643-650
 Hockaday, T.D.R. 663-670
 Hoek, F.J. 105-111
 Høilund-Carlsen, P.F. 319-322
 Holgate, S.T. 495-500
 Holstein-Rathlou, N.-H. 311-318
 Hori, S. 567-572
 Horton, C.E. 195-203
 Houben, L.A.M.J. 297-304
 Humphreys, S.M. 663-670
 Hupe, J. 529-534
- Iacone, R. 337-342
 Iacoviello, L. 337-342
 Imanishi, M. 389-394
 Ishii, M. 643-650
 Ishimitsu, T. 643-650
 Ishola, M. 369-374
 Ito, K. 389-394
- Jackson, A.A. 93-97
 Jahoor, F. 93-97
 James, G.D. 177-182
 James, O.F.W. 265-272, 365-368
 Janssen, W.M.T. 55-60
 Jeacock, J. 369-374
 Jeevanandam, M. 113-120
 Jenkins, A.P. 555-559
 Jennings, G.L. 605-610
 Jensen, L.S. 205-211
 Jepson, M.M. 13-20
 Jivegard, L. 49-54
 Jivegard, L. 49-54
 Johnston, D.G. 383-388
 Jones, J.R. 121-127
 Jossa, F. 337-342
 Juhl, C.O. 205-211
- Kageyama, Y. 567-572
 Kamper, A.L. 311-318
 Kangawa, K. 643-650
 Katahira, K. 29-34
- Kawamura, M. 389-394
 Kawana, Y. 389-394
 Keavey, P. 445-451
 Kendall, M.J. 281-285
 Khazanchi, R.K. 69-76
 Kimura, K. 643-650
 King, R.F.G. 133-138, 343-349
 Kinter, L.B. 637-641
 Kiyose, H. 643-650
 Knight, K.R. 69-76
 Knox, A.J. 467-471
 Kohara, K. 29-34
 Koomen, G.C.M. 105-111
 Kooner, J.S. 623-628
 Koopman, M.G. 105-111
 Koshy, A. 7-9
 Kranstrup, I.L. 319-322
 Krediet, R.T. 105-111
 Kreiger, J. 407-411
 Kuramochi, M. 389-394
 Kurosawa, Y. 643-650
 Kyan-Aung, U. 195-203
- Laks, L. 407-411
 Lallau, G. 213-216
 Laragh, J.H. 177-182
 Larsen, S. 149-155
 Lebrec, D. 7-9
 Ledingham, J.G.G. 657-661
 Lee, M.R. 281-285
 Lee, S. 7-9
 Lee, T.H. 195-203
 Lefebvre, J. 213-216
 Legaspi, A. 113-120
 Leighton, B. 61-67
 Leonelli, F.M. 561-566
 Leong, L.L. 561-566
 Levick, M.P. 323-327
 Lewis, H.M. 281-285
 Leyssac, P.P. 311-318
 Lightman, S.L. 589-597
 Little, R.A. 425-429
 Littler, W.A. 11-12
 Lloyd, S. 139-144
 Lobley, G.E. 329-336
 Lockhart, A. 237-244
 Lovelock, M. 323-327
 Lowe, S.A. 599-604
 Lowry, S.F. 113-120
 Lundgren, F. 485-493
- MacCormack, D. 671-676
 Macdonald, I.A. 245-252, 265-272
 MacGregor, G.A. 253-258, 573-579
 Main, J. 157-160
 Mallon, F.M. 637-641
 Maltby, N.H. 671-676
- Mancini, M. 337-342
 Mansell, P.I. 245-252
 Mansy, H. 445-451
 Marin, J.J.G. 473-478
 Markandu, N.D. 253-258, 573-579
 Marsac, J. 237-244
 Maruing, J. 319-322
 Mary, D.A.S.G. 1-5
 Masotti, G. 217-222
 Mathias, C.J. 85-92, 623-628
 Matsuo, H. 643-650
 Matsuoka, H. 643-650
 Matsushima, Y. 389-394
 Matthews, D.E. 113-120
 Matthews, J. 265-272
 Maxton, D.G. 401-406
 Maxwell, J.D. 171-176
 McArthur, S. 509-514
 McCann, J.J. 69-76
 McCormack, D.G. 439-443
 McCulloch, R.K. 99-103
 McDougall, J.G. 407-411
 McIntosh, C.M. 85-92
 McMahan, M.J. 343-349
 McNurlan, M.A. 329-336
 Menzies, I.S. 401-406
 Meredith, I.T. 605-610
 Mikami, H. 29-34
 Milledge, J.S. 509-514
 Miller, M.A. 253-258
 Millward, D.J. 13-20
 Milne, E. 329-336
 Montali, U. 375-381
 Montanari, A. 479-484
 Moreau, J. 49-54
 Moriarty, K.J. 161-166
 Morice, A.H. 509-514
 Morley, C.A. 547-553
 Morris, J.F. 189-194
 Morton, J.J. 183-188
 Mujais, S.K. 617-621
 Mulvany, M.J. 205-211
 Murakami, M. 567-572
 Murray, G. 183-188
 Musiari, L. 479-484
- Nakamoto, H. 567-572
 Newsholme, E.A. 61-67
 Ng, L.L. 417-423
 Noble, A.R. 273-279
 Norman, R.I. 395-400
 Norton, A.C. 651-655
 Novarini, A. 479-484
 Nunez, D.J. 129-131
- Obika, L.F.O. 21-27
 O'Brien, B.M.C. 69-76
 Ogihara, T. 29-34

- Ogihara, T. 29-34
 Ohishi, A. 567-572
 Omae, T. 389-394
 Otsuka, A. 29-34
- Palkovits, M. 529-534
 Panos, M.Z. 657-661
 Pardy, K. 273-279
 Parry-Billings, M. 61-67
 Payton, C.D. 521-527
 Pecker, M.S. 177-182
 Pederson, W.C. 69-76
 Pedrinelli, R. 541-545
 Peiffer, C. 237-244
 Perez-Barriocanal, F. 473-478
 Peters, W.P. 501-507
 Pirie, S.C. 77-84
 Pollard, H. 49-54
 Poston, L. 189-194
 Potter, J.F. 265-272
 Potts, D.J. 77-84
- Quintanilla, A.P. 617-621
- Raajmakers, J.A.M. 297-304
 Racadot, R. 213-216
 Raimbach, S.J. 623-628
 Raine, A.E.G. 657-661
 Ravenetti, C. 479-484
 Rawles, J.W. 223-228
 Redondo-Torres, J.G. 473-478
 Reid, W. 589-597
 Rhodes, G.R. 637-641
 Rodella, A. 479-484
 Rolland, Y. 453-461
 Roulston, J.E. 589-597
 Rouse, I.L. 99-103
- Sagnella, G.A. 253-258, 573-579
 Salih, M.S. 11-12
 Salvetti, A. 541-545
 Samani, N.J. 629-636
 Saruta, T. 567-572
 Saunders, S. 323-327
 Scarti, L. 217-222
 Schersten, T. 485-493
 Schmitze du Moulin, F.E.M. 297-304
- Schryber, S.M. 501-507
 Schwartz, J.C. 49-54
 Sealey, J.E. 177-182
 Semple, P.F. 183-188
 Shainkin-Kestenbaum 463-466
 Sharma, K. 501-507
 Sheridan, D.J. 229-236
 Shimamoto, K. 389-394
 Singer, D.R.J. 253-258, 573-579
 Slavin, B. 401-406
 Smith, M.W. 139-144
 Smith, R. 323-327
 Spur, B.W. 195-203
 Stockley, R.A. 35-41
 Stone, J. 495-500
 Stoner, H.B. 425-429
 Strandgaard, W. 311-318
 Strazzullo, P. 337-342
 Strophair, J.A. 561-566
 Sturm, M.J. 561-566
 Sudhir, K. 605-610
 Sugden, A.L. 253-258
 Sugimoto, Tokuichiro 643-650
 Sugimoto, Toshihiko 643-650
 Sullivan, C.E. 407-411
 Summers, J. 99-103
 Suzuki, H. 567-572
 Svanvik, J. 49-54
 Swales, J.D. 167-170, 629-636
- Taddei, S. 541-545
 Tanner, M.S. 259-263
 Tapson, J.S. 445-451
 Tattersfield, A.E. 467-471
 Taylor, D.R. 145-147
 Taylor, R. 383-388, 561-566
 ten Harkel, A.D.J. 305-310
 Terpstra, G.K. 297-304
 Thomas, P. 229-236
 Thomas, T.H. 157-160
 Thompson, R.P.H. 401-406, 555-559
 Thune, A. 49-54
 Thunell, S. 611-616
 Tipton, M.J. 581-588
 Torikai, S. 287-295
 Tracey, K.J. 113-120
 Trevisan, M. 337-342
 Tsunetoshi, T. 29-34
 Turnberg, L.A. 161-166
 Turner, I.B. 365-368
- van der Hem, G.K. 55-60
 van Lieshout, E.J. 305-310
 Van Lieshout, J.J. 305-310
 Van Overveld, F.J. 297-304
 Van Reeth, O. 351-355
 Vandongen, R. 99-103
 Vantygghem, M.C. 213-216
 Villanueva, G.R. 473-478
 Vinnars, E. 329-336, 611-616
 von der Decken, A. 611-616
- Wagener, O.E. 617-621
 Wahba, M.M.A.E. 547-553
 Wang, J.-Y. 535-539
 Wang, Y.-C. 535-539
 Ward, M.K. 383-388
 Warren, J.B. 671-676
 Warren, P.M. 431-437
 Wernerman, J. 329-336, 611-616
 West, J.N.W. 11-12
 Weston, P.M.T. 133-138
 Wieling, W. 305-310
 Wilcox, I. 407-411
 Wilkins, M.R. 281-285
 Wilkinson, A.H. 43-48
 Wilkinson, R. 157-160, 383-388, 445-451
 Williams, B.C. 273-279
 Williams, D.G. 43-48
 Williams, N.S. 133-138
 Williams, R. 657-661
 Williams, T.D.M. 589-597
 Williamson, D.H. 357-364
 Winocour, P.H. 369-374
 Wolfe, C.D. 189-194
 Wood, S.M. 85-92
 Woodford, M. 161-166
 Woods, R.L. 605-610
 Woodward, P. 637-641
 Wright, K.F. 145-147
- Yeaman, S.F. 365-368
 Yoshida, K. 389-394
 Young, G.A. 343-349
 Yudkin, J.S. 121-127
- Zammit, V.C. 599-604
 Zeiderman, M.R. 343-349

Volume 77

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.

- Acetorphan
cholecystitis, enkephalinase 49-54
- Acute mountain sickness
atrial natriuretic peptide 509-514
- Acute renal failure
ischaemia, biological preservation 77-84
methylguanidine 637-641
- Adaptation
renal architecture, transport activity 287-295
- Adenosine 3':5'-cyclic monophosphate
renin secretion, calcium 273-279
- Adipose tissue metabolism
insulin 663-670
- Adrenaline
plasma volume, albumin 149-155
protein synthesis, muscle 611-616
- Adrenocorticotrophic hormone
endothelin 567-572
- Ageing
postprandial blood pressure, autonomic function 265-272
pressoreceptors 223-228
- Albumin
insulin, catecholamines 149-155
- Albumin excretion
circadian rhythm, glomerular filtration rate 105-111
- Alcoholism
vitamin D deficiency, muscle contraction 171-176
- Aldosterone
atrial natriuretic peptide, essential hypertension 252-258
endothelin 567-572
- Almitrine
hypoxic ventilatory drive, chemoreceptors 431-437
- Altitude
atrial natriuretic peptide, acute mountain sickness 509-514
- Aluminium
superoxide dismutase, oxygen free radicals 463-466
- Amiloride
excretion of potassium and kallikrein 21-27
leucocytes, sodium 417-423
- Amino acid flux
total parenteral nutrition, exercise 113-120
- Anaesthetics
protein synthesis 651-655
- Angiotensin II
cerebrospinal fluid, sodium depletion 389-394
- Antidigoxin antibody
Na⁺, K⁺-adenosine triphosphatase 617-621
- Antidiuretic hormone
hyponatraemia, urea 351-355
- Antimitochondrial antibodies
primary biliary cirrhosis 365-368
- Arginine vasopressin
endothelin 567-572
- Arm
amino acid flux, exercise 113-120
- Arterial pressure
endothelin 567-572
- Arteriolar vasodilator
congestive heart failure, haemodynamic responses 229-236
- Arteriovenous difference
short-chain acylcarnitine, muscle 413-416
- Aspirin
platelet aggregation, thromboxane A₂ 99-103
- Asthma
dyspnoea, peak expiratory flow rate 237-244
selenium, glutathione peroxidase 495-500
- Atherosclerosis
counter-regulatory hormones 453-461*
- Atrial natriuretic peptide
altitude, acute mountain sickness 509-514
baroreceptor reflex, volume expansion 29-34
blood sampling site, exercise 319-322
brain, deoxycorticosterone acetate-salt hypertension 529-534
cardiac secretion, sodium restriction 605-610
diabetes mellitus, glycaemic control 177-182
dopaminergic blockade, central hypervolaemia 479-484
endothelin 567-572
essential hypertension, aldosterone 253-258
natriuresis, dopamine 281-285
obstructive sleep apnoea, nasal continuous positive airways pressure 407-411
proteinuria, primary glomerular disease 643-650
renal blood flow, renal sodium handling 55-60
renal clearance, sodium restriction 605-610
- Atrial natriuretic peptide precursor
plasma 573-579

- Autoimmunity
 primary biliary cirrhosis, pyruvate dehydrogenase complex 365–368
- Autonomic failure
 hypotension, glucose 85–92
 postprandial hypotension, somatostatin 623–628
- Autonomic function
 postprandial blood pressure, ageing 265–272
- Autonomic nervous control
 cardiovascular responses, coughing 305–310
- Autonomic neuropathy
 diabetes, vasopressin 589–597
- Baroreceptor reflex
 atrial natriuretic peptide, volume expansion 29–34
- Baroreceptors
 syncope 547–553
- Benzopyrones
 lymphoedema 69–76
- Bile
 protoporphyrin IX 473–478
- Biliary lipid secretion
 protoporphyrin IX 473–478
- Biological preservation
 acute renal failure, ischaemia 77–84
- Blood flow
 skeletal muscle, walking performance 485–493
- Blood pressure
 ageing, autonomic function 265–272
 atrial natriuretic peptide, aldosterone 253–258
 autonomic failure, glucose 85–92
 coughing 305–310
 sodium/lithium countertransport, lithium clearance 337–342
- Blood sampling site
 atrial natriuretic peptide, exercise 319–322
- Blood supply
 adaptation, transport activity 287–295
- BN 52021
 hypoxia, pulmonary artery pressure 439–443
- Body temperature regulation
 food deprivation, vasoconstriction 245–252
- Brain
 atrial natriuretic peptide, deoxycorticosterone acetate–salt hypertension 529–534
- Bretylium tosylate
 ouabain, sympathetic vasoconstriction 541–545
- 2-Bromoethylamine hydrobromide
 mesenteric resistance vessels, noradrenaline sensitivity 167–170
- Bronchial reactivity
 histamine, vasopressin 467–471
- Burns
 thermoregulation 425–429
- Cachectin
 metabolic effects, tissue wasting 357–364*
- Caeruloplasmin
 messenger RNA, liver 259–263
- Calcium
 renin secretion, adenosine 3':5'-cyclic monophosphate 273–279
- Calcium antagonist
 congestive heart failure, haemodynamic responses 229–236
- Calcium channel blockers
 renin secretion, kidney cortex 273–279
- Ca²⁺–Mg²⁺-adenosine 5'-triphosphatase
 erythrocyte membrane, hypertension 395–400
- Cancer
 cytokines 357–364*
- Cancer cachexia
 diet-induced thermogenesis, energy expenditure 133–138
- Capillary permeability
 pregnancy-induced hypertension 599–604
- Carbidopa
 atrial natriuretic peptide, natriuresis 281–285
- Cardiac output
 syncope 547–553
- Cardiac transplant
 atrial natriuretic peptide precursor, plasma 573–579
- Cardiogenic shock
 lyso-platelet-activating factor 561–566
- Cardiovascular autonomic function
 Valsava manoeuvre, standing up 305–310
- Cardiovascular receptors
 coronary circulation 1–5*
- Carnitine
 arteriovenous difference, muscle 413–416
- Carotid body
 hypoxic ventilatory drive, almitrine 431–437
- Catecholamines
 endothelin 567–572
 postprandial blood pressure, ageing 265–272
- Cation permeability
 erythrocytes, pseudohyperkalaemia 213–216
- Central hypervolaemia
 dopaminergic blockade, atrial natriuretic peptide 479–484
- Central pontine myelinolysis
 hyponatraemia, urea 351–355
- Cerebrospinal fluid
 angiotensin II, sodium depletion 389–394
- Chemical renal medullectomy
 noradrenaline sensitivity, mesenteric resistance vessels 167–170
- Chemoreceptors
 hypoxic ventilatory drive, almitrine 431–437
- Chemotaxis
 neutrophils, lipoxins A₄ and B₄ 195–203
- Chemotherapy
 hypertension, Na⁺, K⁺-adenosine triphosphatase inhibitor 501–507
- p*-Chlorophenylalanine
 renal failure, 5-hydroxytryptamine 145–147

- Cholecystitis
 enkephalinase, acetorphan 49–54
- Cholera toxin
 intestinal secretion, tetrodotoxin 161–166
- Cholesterol
 protoporphyrin IX 473–478
- Chronic nephropathy
 lithium clearance, glomerular filtration rate 311–318
- Chronic renal failure
 insulin action, continuous ambulatory peritoneal dialysis 383–385
 methylguanidine 637–641
- Circadian rhythm
 dyspnoea, asthma 237–244
 effective renal plasma flow 105–111
 glomerular filtration rate 105–111
- Cirrhosis
 haemorrhage, somatostatin analogue 7–9
 isolated perfused kidney, sodium excretion 657–661
- Citrate synthetase
 intermittent claudication, walking performance 485–493
- Cold shock
 cardiovascular and respiratory responses 581–588*
- Cold-water immersion
 cardiovascular and respiratory responses 581–588*
- Collagen
 platelet aggregation, aspirin 99–103
- Congestive heart failure
 haemodynamic responses, arteriolar vasodilator 229–236
- Continuous ambulatory peritoneal dialysis
 insulin action, glucose metabolism 383–385
- Contractility
 mesenteric veins, oesophageal varices 205–211
- Coronary circulation
 cardiovascular receptors 1–5*
- Cortisol
 endothelin 567–572
 hypercapnia 323–327
 protein synthesis, muscle 611–616
- Coughing
 cardiovascular responses, autonomic nervous control 305–310
- Coumarin
 lymphoedema 69–76
- Counter-regulatory hormones
 atherosclerosis 453–461*
- C-peptide
 lipoproteins, diabetes mellitus 369–374
- Cranial window
 pial vessel diameter, glycerol infusion 535–539
- Crypt cell production rate
 small intestine, essential fatty acids 555–559
- Cytochrome-*c* oxidase
 intermittent claudication, walking performance 485–493
- Cytokines
 metabolic effects, tissue wasting 357–364*
- Deoxycorticosterone acetate–salt hypertension
 atrial natriuretic peptide, brain 529–534
- Dexamethasone
 neutrophils, proteolysis 35–41
- Diabetes
 atherosclerosis 453–461*
 atrial natriuretic peptide, renin 177–182
 lipoproteins, C-peptide 369–374
 vasopressin, autonomic neuropathy 589–597
- Diabetic nephropathy
 mesangial expansion, streptozotocin 521–527
- Dietary protein
 nephrotic syndrome 445–451
- Diet-induced thermogenesis
 cancer cachexia 133–138
- Diltiazem
 renin secretion, calcium 273–279
- Dopamine
 atrial natriuretic peptide, natriuresis 281–285
- Dopaminergic blockade
 central hypervolaemia, atrial natriuretic peptide 479–484
- Doppler flowmetry
 forearm blood flow, plethysmography 11–12
- Dyspnoea
 asthma, peak expiratory flow rate 237–244
- Effective renal plasma flow
 circadian rhythm 105–111
- Elastase
 neutrophils, proteolysis 35–41
- Emphysema
 neutrophils, proteolysis 35–41
- Endogenous digoxin-like immunoreactivity
 erythrocyte, ⁸⁶Rb uptake 375–381
 sodium transport, pregnancy-induced hypertension 185–190
- β -Endorphin
 ventilatory control 323–327
- Endothelin
 haemodynamics, neurohormones 567–572
 kidney, quantitative receptor autoradiography 129–131
 pulmonary circulation, hypoxia 671–676
- Endothelium-derived relaxing factor
 pulmonary circulation, hypoxia 671–676
- Endotoxin
 neutrophils, proteolysis 35–41
- Energy expenditure
 cancer cachexia 133–138
 sickle cell disease 93–97
- Enkephalin
 cholecystitis, acetorphan 49–54
- Enkephalinase
 cholecystitis, acetorphan 49–54
- Enteral feeding
 intestinal absorption 401–406
- Enteroglucagon
 small intestine, essential fatty acids 555–559

- Enzyme activation
liver, parenteral nutrition 343–349
- Erythrocyte membrane
Ca²⁺-Mg²⁺-adenosine 5'-triphosphatase,
hypertension 395–400
- Erythrocytes
cation permeability, pseudohyperkalaemia 213–216
⁸⁶Rb uptake 375–381
- Essential fatty acids
small-intestinal mucosa, gut peptides 555–559
- Essential hypertension
atrial natriuretic peptide, aldosterone 253–258
atrial natriuretic peptide precursor, plasma 573–579
cerebrospinal fluid, angiotensin II 389–394
intracellular free calcium, vasopressin 183–188
- Exercise
amino acid flux, total parenteral nutrition 113–120
atrial natriuretic peptide, blood sampling
site 319–322
- Extracellular fluid volume
pregnancy-induced hypertension 599–604
- Fatty acid metabolism
muscle 413–416
- Fenbufen
protein synthesis, liver 13–20
- Fever
burn injury 425–429
- Fibrosis
benzopyrones 69–76
- Filtered load
electrolytes, circadian rhythm 105–111
- Fluid balance
hypoxia 509–514
- Fluid retention
chemotherapy, Na⁺, K⁺-adenosine triphosphatase
inhibitor 501–507
- Food deprivation
body temperature regulation,
vasoconstriction 245–252
- Forearm
arteriovenous difference, short-chain
acylcarnitine 413–416
- N*-Formyl-L-methionyl-L-leucyl-L-phenylalanine
neutrophils, chemotaxis 195–203
- Forearm blood flow
myogenic response, Doppler flowmetry 11–12
- Free fatty acids
adipose tissue, insulin 663–670
- β -Galactosidase
intestinal mucosa, nematode infection 139–144
- Gall bladder
cholecystitis, enkephalinase 49–54
- Glomerular basement membrane
proteinuria, nephrotic syndrome 43–48
- Glomerular filtration rate
circadian rhythm, electrolyte excretion 105–111
lithium clearance, chronic nephropathy 311–318
primary glomerular disease, atrial natriuretic
peptide 643–650
- Glucagon
protein synthesis, muscle 611–616
- Glucose
adipose tissue, insulin 663–670
hypotension, autonomic failure 85–92
postprandial hypotension, somatostatin 623–628
- Glucose clearance
chronic nephropathy, glomerular filtration
rate 311–318
- Glucose metabolism
chronic renal failure, continuous ambulatory peritoneal
dialysis 383–385
endotoxin, insulin resistance 61–67
- Glutamine
skeletal muscle, fenbufen 13–20
- Glutathione peroxidase
selenium, asthma 495–500
- Glycaemic control
diabetes mellitus, atrial natriuretic peptide 177–182
- Glycerol
adipose tissue, insulin 663–670
pial vessel diameter, haemodynamics 535–539
renal failure, 5-hydroxytryptamine 145–147
- Glycine
protein turnover, sickle cell disease 93–97
- Glycogen
liver, parenteral nutrition 343–349
- Guanosine 3':5'-cyclic monophosphate
atrial natriuretic peptide, natriuresis 281–285
- Haemodynamics
glycerol infusion 535–539
- Haemoglobinopathy
protein turnover, metabolic rate 93–97
- Haemorrhage
portal hypertension, somatostatin analogue 7–9
- Heart
atrial natriuretic peptide secretion, sodium
clearance 605–610
protein synthesis, anaesthetics 651–655
- Heart rate
coughing 305–310
- High-density lipoprotein cholesterol
diabetes mellitus, C-peptide 369–374
- Hippuran extraction
atrial natriuretic peptide 55–60
- Histamine
bronchial reactivity, vasopressin 467–471
- 3-Hydroxyacyl-CoA dehydrogenase
intermittent claudication, walking
performance 485–493
- 7-Hydroxycoumarin
lymphoedema 69–76
- 5-Hydroxytryptamine
renal failure, *p*-chlorophenylamine 145–147

- Hypercapnia**
 opioids, occlusion pressure 323–327
- Hypertension**
 atherosclerosis 453–461*
 atrial natriuretic peptide, brain 529–534
 atrial natriuretic peptide precursor, plasma 573–579
 Ca²⁺-Mg²⁺-adenosine 5'-triphosphatase, erythrocyte membrane 395–400
 chemotherapy, Na⁺,K⁺-adenosine triphosphatase inhibitor 501–507
 ouabain, sympathetic vasoconstriction 541–545
 pressoreceptors 223–228
 renin messenger RNA, renal/extra-renal tissues 629–636
 sodium/lithium countertransport, lithium clearance 337–342
- Hypertrophy**
 mesenteric veins, oesophageal varices 205–211
- Hyponatraemia**
 urea, central pontine myelinolysis 351–355
- Hypotension**
 autonomic failure, glucose 85–92
- Hypoxia**
 atrial natriuretic peptide, nasal continuous positive airways pressure 407–411
 fluid balance, sodium excretion 509–514
 ligustrazine, pulmonary vasodilatation 515–520
 pulmonary artery pressure, platelet-activating factor 439–443
 pulmonary circulation, endothelium-derived relaxing factor 671–676
- Hypoxic ventilatory drive**
 almitrine, chemoreceptors 431–437
- Ileum**
 cholera toxin, tetrodotoxin 161–166
- Injury**
 thermoregulation 425–429
- Insulin**
 adipose tissue metabolism 663–670
 fenbufen, endotoxaemia 13–20
 hypotension, glucose 85–92
 plasma volume, albumin 149–155
 postprandial blood pressure, ageing 265–272
- Insulin action**
 chronic renal failure, continuous ambulatory peritoneal dialysis 383–385
- Insulin injection site**
 blood flow, thermal clearance 121–127
- Insulin resistance**
 glucose metabolism, endotoxin 61–67
- Interleukin-1**
 metabolic effects, tissue wasting 357–364*
- Intermittent claudication**
 metabolic adaptation, walking performance 485–493
- Intestinal absorption**
 enteral feeding, starvation 401–406
- Intestinal mucosa**
 β-galactosidase, nematode infection 139–144
- Intestinal secretion**
 cholera toxin, tetrodotoxin 161–166
- Intracellular free calcium**
 essential hypertension, vasopressin 183–188
- Ischaemia**
 acute renal failure, biological preservation 77–84
- Kallikrein excretion**
 amiloride, potassium 21–27
- Kidney**
 atrial natriuretic peptide clearance, sodium restriction 605–610
 endothelin-1, quantitative receptor autoradiography 129–131
- Kidney cortex**
 renin secretion, calcium 273–279
- Lactase**
 intestinal mucosa, nematode infection 139–144
- Lactate**
 adipose tissue, insulin 663–670
- Lactate dehydrogenase**
 intermittent claudication, walking performance 485–493
- Leg**
 amino acid flux, exercise 113–120
- Leucine**
 protein synthesis, muscle 329–336
- Leucocytes**
 sodium, amiloride 417–423
 sodium, potassium 157–160
 sodium transport, endogenous digoxin-like immunoreactivity 189–194
- Leukotriene B₄**
 neutrophils, chemotaxis 195–203
- Ligustrazine**
 pulmonary vasodilatation, chronic hypoxia 515–520
- Lipoprotein metabolism**
 atherosclerosis 453–461*
- Lipoproteins**
 diabetes mellitus, C-peptide 369–374
- Lipoxin A₄**
 neutrophils, chemotaxis 195–203
- Lipoxin B₄**
 neutrophils, chemotaxis 195–203
- Lithium clearance**
 chronic nephropathy, glomerular filtration rate 311–318
 sodium/lithium countertransport, blood pressure 337–342
- Liver**
 caeruloplasmin, messenger RNA 259–263
 enzyme activation, parenteral nutrition 343–349
 protein synthesis, anaesthetics 651–655
 protein synthesis, fenbufen 13–20
- Lung**
 mast cell subtypes 297–304
 protein synthesis, anaesthetics 651–655

- Lymphoedema
benzopyrones 69–76
- Lyso-platelet-activating factor
shock, severe tissue damage 561–566
- Mass spectrometry
protein synthesis, leucine 329–336
- Mast cell subtypes
lung tissue 297–304
- Mesangial expansion
diabetic nephropathy, streptozotocin 521–527
- Mesenteric resistance vessels
noradrenaline sensitivity, chemical renal
medullectomy 167–170
- Mesenteric veins
contractility, oesophageal varices 205–211
- Messenger RNA
caeruloplasmin, liver 259–263
renin, hypertension 629–636
- Metabolic rate
sickle cell disease 93–97
- Methylguanidine
renal failure 637–641
- β -Microglobulin excretion
circadian rhythm, glomerular filtration rate 105–111
- Muscle
protein synthesis, anaesthetics 651–655
protein synthesis, leucine 329–336
protein synthesis, stress hormones 611–616
short-chain acylcarnitine, arteriovenous
difference 413–416
- Muscle contraction
alcoholism, vitamin D deficiency 171–176
- Myogenic response
forearm blood flow, Doppler flowmetry 11–12
- Na^+, K^+ -adenosine triphosphatase
ouabain-like factor 617–621
- Na^+, K^+ -adenosine triphosphatase inhibitor
chemotherapy, hypertension 501–507
- Nasal continuous positive airways pressure
atrial natriuretic peptide, obstructive sleep
apnoea 407–411
- Natriuresis
dopaminergic blockade, atrial natriuretic
peptide 479–484
- Natriuretic factor
chemotherapy, hypertension 501–507
- Nematode infection
intestinal mucosa, β -galactosidase 139–144
- Neonate
erythrocyte ^{86}Rb uptake, endogenous digoxin-like
immunoreactivity 375–381
- Nephrotic syndrome
dietary protein 445–451
proteinuria, glomerular basement membrane 43–48
- Neurotensin
cholera toxin, intestinal secretion 161–166
- Neutrophils
chemotaxis, lipoxins A_4 and B_4 195–203
proteolysis, emphysema 35–41
- Nicardipine
congestive heart failure, haemodynamic
response 229–236
- Noradrenaline
plasma volume, albumin 149–155
- Noradrenaline sensitivity
mesenteric resistance vessels, chemical renal
medullectomy 167–170
- Northern blotting
renin messenger RNA, hypertension 629–636
- Obesity
atherosclerosis 453–461*
- Obstructive sleep apnoea
atrial natriuretic peptide, nasal continuous positive
airways pressure 407–411
- Occlusion pressure
hypercapnia, opioids 323–327
- Oesophageal varices
mesenteric veins, contractility 205–211
- Opioids
ventilatory control 323–327
- Orthostasis
vasopressin, autonomic neuropathy 589–597
- Osmotic stimulation
vasopressin, autonomic neuropathy 589–597
- Ouabain
sympathetic mechanism, hypertension 541–545
- Oubain-like factor
 Na^+, K^+ -adenosine triphosphatase 617–621
- Oxygen free radicals
superoxide dismutase, aluminium 463–466
- Oxygen partial pressure
transport activity, renal architecture 287–295
- Packed cell volume
insulin, catecholamines 149–155
- Parenteral nutrition
liver, enzyme activation 343–349
- Peak expiratory flow rate
asthma, dyspnoea 237–244
- Peptidyltyrosyltyrosine
small intestine, essential fatty acids 55–559
- Phentolamine
ouabain, sympathetic vasoconstriction 541–545
- Phosphofructokinase
intermittent claudication, walking
performance 485–493
- Phospholipid
protoporphyrin IX 473–478
- Physical exercise
intermittent claudication, metabolic
adaptation 485–493
- Pial vessel diameter
cranial window, glycerol infusion 535–539

- Plasma**
atrial natriuretic peptide precursor 573–579
- Plasma renin activity**
atrial natriuretic peptide, essential hypertension 253–258
endothelin 567–572
- Plasma volume**
insulin, catecholamines 149–155
pregnancy-induced hypertension 599–604
- Platelet aggregation**
platelet-activating factor, thromboxane A₂ 99–103
- Platelet-activating factor**
hypoxia, pulmonary artery pressure 439–443
platelet aggregation, thromboxane A₂ 99–103
shock, severe tissue damage 561–566
- Platelets**
intracellular free calcium, vasopressin 183–188
- Plethysmography**
forearm blood flow, Doppler flowmetry 11–12
- Portal hypertension**
haemorrhage, somatostatin analogue 7–9
vascular structure, oesophageal varices 205–211
- Postprandial blood pressure**
ageing, autonomic function 265–272
- Postprandial hypotension**
autonomic failure, somatostatin 623–628
- Potassium**
amiloride, kallikrein excretion 21–27
leucocytes 153–156
- Potassium canrenoate**
renal prostaglandins 217–222
- Potassium clearance**
chronic nephropathy, glomerular filtration rate 311–318
- Pregnancy-induced hypertension**
capillary permeability, extracellular fluid volume 599–604
sodium transport, endogenous digoxin-like immunoreactivity 189–194
- Pressoreceptors**
hypertension 223–228
- Primary biliary cirrhosis**
autoimmunity, pyruvate dehydrogenase complex 365–368
- Primary glomerular disease**
proteinuria, atrial natriuretic peptide 643–650
- Prostaglandins**
fenbufen, endotoxaemia 13–20
potassium canrenoate 217–222
- Protein**
nephrotic syndrome 445–451
- Protein kinetics**
total parenteral nutrition, exercise 113–120
- Protein synthesis**
anaesthetics 651–655
liver and muscle, fenbufen 13–20
muscle, leucine 329–336
muscle, stress hormones 611–616
- Protein turnover**
sickle cell disease 93–97
- Proteinuria**
glomerular basement membrane, nephrotic syndrome 43–48
primary glomerular disease, atrial natriuretic peptide 643–650
- Proteolysis**
neutrophils, emphysema 35–41
- Protoporphyrin IX**
biliary lipid secretion 473–478
- Pseudohyperkalaemia**
erythrocytes, cation permeability 213–216
- Pulmonary artery pressure**
hypoxia, platelet-activating factor 439–443
- Pulmonary circulation**
hypoxia, endothelium-derived relaxing factor 671–676
- Pulmonary hypertension**
ligustrazine, chronic hypoxia 515–520
- Pulmonary vasodilatation**
ligustrazine, chronic hypoxia 515–520
- Pyruvate dehydrogenase complex**
primary biliary cirrhosis, autoimmunity 365–368
- Quantitative receptor autoradiography**
endothelin-1, kidney 129–131
- ⁸⁶Rb uptake
erythrocyte, endogenous digoxin-like immunoreactivity 375–381
- Regulatory peptides**
hypotension, glucose 85–92
postprandial hypotension, somatostatin 623–628
- Renal architecture**
tissue oxygen partial pressure, transport activity 287–295
- Renal blood flow**
atrial natriuretic peptide, renal sodium handling 55–60
endothelin 567–572
- Renal failure**
atrial natriuretic peptide precursor, plasma 573–579
p-chlorophenylalanine, 5-hydroxytryptamine 145–147
- Renal function**
atrial natriuretic peptide 55–60
primary glomerular disease, atrial natriuretic peptide 643–650
- Renal prostaglandins**
potassium canrenoate 217–222
- Renal sodium handling**
atrial natriuretic peptide, renal blood flow 55–60
- Renal tubular function**
chronic nephropathy 311–318
- Renal vein**
renin, sodium restriction 605–610
- Renin**
diabetes mellitus, glycaemic control 177–182
renal vein, sodium restriction 605–610

- Renin messenger RNA**
 renal/extra-renal tissues, hypertension 629-636
- Renin secretion**
 calcium, adenosine 3':5'-cyclic
 monophosphate 273-279
- Rest**
 atrial natriuretic peptide, blood sampling
 site 319-322
- Ribonuclease protection**
 renin messenger RNA, hypertension 629-636
- Ribosomes**
 muscle, stress hormones 611-616
- Selenium**
 glutathione peroxidase, asthma 495-500
- Sensory scaling**
 dyspnoea, asthma 237-244
- Sepsis**
 cytokines 357-364*
 glucose metabolism, skeletal muscle 61-67
- Septicaemia**
 lyso-platelet-activating factor 561-566
- Severe tissue damage**
 lyso-platelet-activating factor 561-566
- Shock**
 lyso-platelet-activating factor 561-566
- Short-chain acylcarnitine**
 arteriovenous difference, muscle 413-416
- Sickle cell disease**
 protein turnover, metabolic rate 93-97
- Skeletal muscle**
 alcoholism, vitamin D deficiency 171-176
 blood flow, walking performance 485-493
 glucose metabolism, sepsis 61-67
 glutamine, protein synthesis, fenbufen 13-20
- Small-intestinal mucosa**
 gut peptides, essential fatty acids 555-559
- Small intestine**
 absorption, starvation 401-406
- Sodium**
 leucocytes 157-160
 leucocytes, amiloride 417-423
- Sodium clearance**
 chronic nephropathy, glomerular filtration
 rate 311-318
- Sodium depletion**
 cerebrospinal fluid, angiotensin II 389-394
- Sodium excretion**
 hypoxia 509-514
 isolated perfused kidney, cirrhosis 657-661
- Sodium/lithium countertransport**
 lithium clearance, blood pressure 337-342
- Sodium restriction**
 atrial natriuretic peptide secretion and
 clearance 605-610
- Sodium transport**
 endogenous digoxin-like reactivity, pregnancy-induced
 hypertension 189-194
- Sodium transport inhibitor**
 endogenous digoxin-like immunoreactivity, pregnancy-
 induced hypertension 189-194
- Somatostatin**
 postprandial hypotension, autonomic
 failure 623-628
- Somatostatin analogue**
 haemorrhage, portal hypertension 7-9
- Standing up**
 cardiovascular autonomic function 305-310
- Starvation**
 body temperature regulation,
 vasoconstriction 245-252
 intestinal absorption 401-406
- Streptozotocin**
 diabetic nephropathy, mesangial expansion 521-527
- Stress**
 atherosclerosis 453-461*
- Stress hormones**
 protein synthesis, muscle 611-616
- Subcutaneous blood flow**
 thermal clearance 121-127
- Superoxide dismutase**
 aluminium, oxygen free radicals 463-466
- Sympathetic nervous system**
 atrial natriuretic peptide, volume expansion 29-34
 hypotension, glucose 85-92
 postprandial hypotension, somatostatin 623-628
- Sympathetic vasoconstriction**
 ouabain, hypertension 541-545
- Syncope**
 cardiac output, baroreceptors 547-553
- Syndrome of inappropriate antidiuretic hormone
 secretion**
 hyponatraemia, urea 351-355
- Taurocholate**
 protoporphyrin IX 473-478
- Tetrodotoxin**
 intestinal secretion, cholera toxin 161-166
- Thermal clearance**
 subcutaneous blood flow 121-127
- Thermoregulation**
 burn injury 425-429
- Thromboxane A₂**
 platelet aggregation, platelet-activating
 factor 99-103
- Tissue wasting**
 cytokines 357-364*
- Total parenteral nutrition**
 amino acid flux, exercise 113-120
- Transport activity**
 renal architecture, blood supply 287-295
- Trauma**
 cytokines 357-364*
- Triacylglycerol**
 adipose tissue, insulin 663-670

- high-density lipoprotein cholesterol, diabetes mellitus 369-374
- small-intestinal mucosa, gut peptides 555-559
- Tri-iodothyronine
 - glucose metabolism, endotoxin 61-67
- Tumour necrosis factor
 - metabolic effects, tissue wasting 357-364*
 - neutrophils, proteolysis 35-41
- Urea
 - hyponatraemia, central pontine myelinolysis 351-355
- Urinary albumin excretion
 - diabetes mellitus, glycaemic control 177-182
- Valsava manoeuvre
 - cardiovascular autonomic function 305-310
- Vascular permeability
 - primary glomerular disease, atrial natriuretic peptide 643-650
- Vasoconstriction
 - body temperature regulation, food deprivation 245-252
- Vasopressin
 - bronchial reactivity, histamine 467-471
- diabetes, autonomic neuropathy 589-597
- intracellular free calcium, essential hypertension 183-188
- Ventilatory control
 - opioids 323-327
- Vitamin D
 - alcoholism, muscle contraction 171-176
- Vitamin D deficiency
 - alcoholism, muscle contraction 171-176
- Volume expansion
 - atrial natriuretic peptide, baroreceptor reflex 29-34
- von Willebrand factor
 - kidney, endothelin-1 129-131
- Walking performance
 - intermittent claudication, metabolic adaptation 485-493
- Water immersion
 - dopaminergic blockade, atrial natriuretic peptide 479-484
- WEB 2086
 - hypoxia, pulmonary artery pressure 439-443
- ¹³³Xe washout
 - subcutaneous blood flow 121-127