

PUBLISHED BY PORTLAND PRESS ON BEHALF OF
THE MEDICAL RESEARCH SOCIETY AND THE BIOCHEMICAL SOCIETY

©The Medical Research Society and the Biochemical Society 1990
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 1989.

- Aalkjaer, C.
Aber, G.
Abumrad, N.N.
Adams, P.C.
Agius, L.
Al Azzawi, F.
Alberti, K.G.M.M.
Allison, M.E.M.
Anderson, D.C.
Anderson, J.
Arnold, J.
Astrup, A.
- Baig, W.
Bailey, C.J.
Ball, S.G.
Balment, R.J.
Banga, P.
Barnes, N.
Baron, D.N.
Bartoli, E.
Barton, R.N.
Bassey, E.J.
Batstone, G.F.
Baylis, P.H.
Beastall, G.H.
Beilin, L.J.
Belch, J.
Bell, J.
Bender, D.
Bennet, W.M.
Bennett, G.W.
Bennett, M.
Bennett, T.
Billing, B.H.
Blaney, L.
Bloom, S.R.
Bobinski, H.
Bonner, G.
Booth, N.A.
Borum, P.
Boucher, R.
Bouloux, P.
Boyd, C.A.R.
Bradley, J.A.
Bremner, I.
Broadly, K.J.
Broughton Pipkin, F.
Brown, E.A.
Brown, J.
Brown, S.B.
Buck, A.C.
Buhler, F.R.
- Bukowiecki, L.
Burke, C.W.
Burnett, D.
Burroughs, A.K.
- Calcutt, N.A.
Calverley, P.M.A.
Campbell, E.J.M.
Campbell, I.T.
Campbell, R.D.
Campbell, R.W.F.
Cannata, J.B.
Cantin, M.
Caputi, A.P.
Carmichael, D.
Carr, S.J.
Carrell, R.W.
Causon, R.C.
Cawood, M.
Cederblad, G.
Challis, R.A.J.
Chipperfield, A.R.
Church, M.
Clarkes, S.W.
Clausen, T.
Clegg, R.A.
Clelland, J.
Clements, M.
Coates, G.
Cobbe, S.
Cockcroft, A.
Coleman, R.
Collins, P.
Connell, J.M.C.
Conor, J.M.
Corr, L.A.
Coulshed, D.
Crick, J.
Cronstein, B.N.
Cumming, A.D.
Cusi, D.
- Dalziel, K.
Dandona, P.
Dargie, H.J.
Davey, M.J.
Davie, M.W.J.
Davies, D.L.
Davies, M.
Davison, J.
de Daley, B.M.
Delle, M.
Denison, D.M.
- DeQuattro, V.
Dhumeaux, D.
Dick, W.C.
Dietz, R.
Dolin, S.J.
Dominiczak, A.F.
Dormandy, J.A.
Dryburgh, F.J.
Dunnigan, M.G.
Durrington, P.
- Eccles, R.
Edmonds, M.
Edwards, R.H.T.
Edwards, Y.
El Nahas, A.M.
Elia, M.
Elliott, H.L.
Elwyn, D.H.
Emery, P.W.
Emmelin, N.
Esler, M.
Esnouf, M.P.
Evans, R.D.
Evans, T.W.
Ewing, D.J.
- Farrell, T.G.
Fearon, K.C.
Feehally, J.
Ferner, R.E.
Ferrari, P.
Ferrell, W.R.
Ferriss, J.B.
Firth, J.D.
Flenley, D.C.
Flores, N.
Fogelman, I.
Forsling, M.L.
Forstermann, U.
Fournier, A.
Fox, K.A.A.
Francis, R.M.
Fraser, R.
Fraser, W.D.
Freeman, R.
Freestone, S.
Frick, R.
Frier, B.M.
Fukagawa, N.
- Galton, D.J.
Garay, R.
- Garcia, R.
Gardiner, S.M.
Gardner, M.L.G.
Gardner, W.N.
Garland, H.O.
Garlick, P.J.
Garrett, J.R.
Genest, J.
Gibbons, G.F.
Gibson, G.J.
Glorioso, N.
Godfrey, P.P.
Gokal, R.
Goldsmith, D.A.
Gramb, G.
Grant, P.J.
Gray, B.J.
Greaves, M.
Green, I.C.
Green, R.
Greening, A.P.
Greenwood, S.L.
- Hall, A.S.
Halliday, D.
Hamilton, C.A.
Hampton, I.
Harris, M.C.
Haselgrove, J.
Haslett, C.
Hawkey, C.J.
Hawkins, P.N.
Hawthorne, G.C.
Haylor, J.
Hazleman, B.L.
Heagerty, A.M.
Heath, D.F.
Hendry, B.M.
Hennemann, G.
Hiley, C.R.
Hill, S.J.
Hillson, R.M.
Hilton, P.J.
Himsworth, R.L.
Hitman, G.A.
Hjemdahl, P.
Holgate, S.T.
Holness, M.J.
Horton, R.
Hosking, D.J.
Howie, A.J.
Hughes, A.
Humphries, S.
- Iggo, N.C.
Illes, P.
Illingworth, R.
Ind, P.W.
Innes, J.A.
- Jackson, A.
Jackson, D.
Jackson, M.
Jacyna, M.R.
James, P.F.W.
Jardine, A.
Jayne, W.
Jeffcoate, W.J.
Jenkins, J.S.
Jepson, M.
Johnston, C.I.
Jones, C.J.H.
Jones, D.A.
Jones, N.L.
Jones, P.W.
Jowett, T.
Jung, R.T.
- Kalsheker, N.
Kanis, J.
Kantelip, J.P.
Kaumann, A.J.
Kay, A.B.
Keatinge, W.R.
Kellett, G.L.
Kendall, M.J.
Kennedy, L.
Kenyon, C.J.
Kooner, J.
Kramps, J.A.
Krieger, J.
- Lab, M.J.
Lahiri, A.
Lane, R.
Lang, R.E.
Lanyon, L.E.
Lassen, N.A.
Lebrec, D.
Lechler, R.I.
Leckie, B.J.
Ledingham, J.G.G.
Lee, T.H.
Leese, H.J.
Leiper, J.B.
Levin, G.E.
Levy, J.

- Lewis, H.
 Lewis, M.J.
 Lichstein, D.
 Lindsay, G.
 Lipkin, D.
 Lobley, G.
 Losowsky, M.
 Ludlam, C.A.
 Luft, F.
 Lund, P.
 Lundholm, K.

 MacDermot, J.
 MacGregor, G.A.
 Maclaren, D.P.M.
 Maini, R.N.
 Marin-Neto, J.A.
 Marsh, M.
 Marshall, J.M.
 Marston, S.
 Mary, D.A.S.G.
 Mathieson, P.W.
 Maughan, R.J.
 Mawer, B.
 McCreanor, G.
 McDonald, T.T.
 McGrath, J.C.
 McIntyre, N.
 McMahan, M.J.
 McVicar, A.J.
 McWilliam, P.N.
 Meacham, R.
 Milford-Ward, A.
 Milledge, J.S.
 Millward, A.
 Mir, A.
 Mollan, R.
 Moolenaar, W.H.
 Morgan, M.Y.
 Morice, A.H.
 Morley, C.J.
 Morrison, H.
 Morton, J.J.
 Mowbray, J.
 Moxham, J.
 Murphy, G.M.
 Murphy, S.M.

 Nash, G.B.
 Natrass, M.
 Neuburger, J.
 Newsholme, E.A.
 Ng, L.L.
 Nicholls, M.G.
 Nimmo, I.A.
 Noble, A.R.
 Nunez, D.J.

 O'Gorman, D.
 Opie, L.H.
 O'Reilly, S.
 O'Riordan, J.L.H.

 Pacy, P.J.
 Page, R.
 Panayi, G.S.
 Parsons, D.S.
 Parsons, V.
 Pasternak, C.A.
 Paterson, C.R.
 Pearson, J.D.
 Pedersen, M.M.
 Peers, S.H.
 Pell, J.M.
 Penny, L.
 Penny, W.J.
 Percy-Robb, I.W.
 Perrett, D.
 Peters, T.J.
 Pirie, S.C.
 Podolsky, D.
 Pounsford, J.C.
 Price, C.P.
 Pride, N.B.
 Printz, M.P.
 Prowse, C.V.
 Purkiss, P.

 Raftery, M.J.
 Ralston, S.H.
 Rampling, M.W.
 Ramsden, D.B.
 Ratcliffe, P.J.
 Rawles, J.M.

 Reeds, P.
 Reeve, J.
 Rennie, M.J.
 Rettig, R.
 Reynolds, J.J.
 Rhodes, J.
 Rhodes, J.M.
 Richer-Giudicelli, Ch.
 Riemersma, R.A.
 Ritter, J.M.
 Roath, S.
 Robbins, P.A.
 Roberts, D.H.
 Roberts, M.
 Robinson, B.F.
 Rodger, I.W.
 Rosenberg, W.
 Rothwell, N.J.
 Roulston, J.E.
 Rumsby, M.G.
 Russell, G.I.

 Safar, M.
 Sagnella, G.
 Sanders, T.A.B.
 Sandilands, G.P.
 Sandle, G.I.
 Schachter, M.
 Schmitz, G.
 Scott, A.K.
 Scott, A.R.
 Scott, J.
 Seckl, J.R.
 Semple, P.F.
 Sever, P.S.
 Seymour, C.A.
 Shahi, J.
 Shale, D.
 Sharma, R.K.
 Sheikh, M.I.
 Shirley, D.G.
 Shore, A.C.
 Short, A.H.
 Sikora, K.
 Singer, D.R.J.
 Slater, J.D.H.
 Smith, R.

 Soladye, O.A.
 Solomon, L.
 Sowers, J.R.
 Spiller, R.
 Steptoe, A.
 Stevenson, J.C.
 Stewart, P.M.
 Stoner, H.B.
 Strachan, T.
 Stradling, J.R.
 Struthers, A.D.
 Stubbs, M.
 Sturrock, R.D.
 Sugden, M.C.
 Sutters, M.
 Swainson, C.P.
 Swales, J.D.

 Tattersfield, A.
 Taube, D.
 Taylor, C.M.
 Taylor, G.
 Taylor, R.
 Thomas, H.C.
 Thomas, P.
 Thomas, R.
 Thomas, T.
 Thompson, C.J.
 Thompson, D.G.
 Thurston, H.
 Tomson, C.R.V.
 Tooke, J.E.
 Trevisan, M.
 Triffit, J.T.
 Triger, D.R.
 Twort, C.H.C.
 Turner, N.
 Turner, R.

 Van Hooft, I.M.S.
 Vann Jones, J.
 Veelken, R.
 Vezzoli, G.

 Waeber, B.
 Walker, A.W.

 Walker, I.D.
 Walløe, L.
 Walls, J.
 Walport, M.
 Walter, S.J.
 Wambach, G.
 Ward, M.K.
 Warley, A.R.H.
 Warnes, T.W.
 Warren, P.M.
 Warren, R.E.
 Wass, J.
 Waterlow, J.C.
 Watson, M.L.
 Weber, W.W.
 Weidmann, P.
 Weissberg, P.L.
 Westerhof, N.
 Whalley, E.
 Wheeler, D.C.
 Whyte, K.F.
 Widdicombe, J.G.
 Wieling, W.
 Wilcox, R.G.
 Wilkins, M.
 Wilkinson, M.L.
 Wilkinson, R.
 Williams, A.J.K.
 Williams, B.C.
 Williams, J.D.
 Williams, R.
 Williams, T.D.M.
 Wilson, R.
 Winney, R.J.
 Winter, R.J.D.
 Winterton, S.J.
 Wiseman, M.J.
 Withrington, P.G.
 Woledge, R.C.
 Wood, J.A.
 Woodhead, J.S.
 Woodhouse, K.
 Woods, K.L.
 Woolf, A.S.
 Wray, S.

 Yates, M.S.

Volume 79

AUTHOR INDEX

- Abraham, W.T. 429-435
Ader, J.-L. 29-35
Adsett, D. 505-511
Ajao, P. 315-323
Albano, J.D.M. 117-121
Alberti, K.G.M.M. 167-174
Allon, M. 123-129
Altieri, P. 647-656
Alvarez, A.L. 437-442
Alvestrand, A. 299-305
Amorena, C. 149-154
Anderson, J.R. 239-245
Ardawi, M.S.M. 139-147, 483-490
Arilla, E. 451-456
Arnolda, L. 583-589
Atlas, S.A. 371-376
Au, J. 377-380
Avalle, V. 227-231
- Bachmann, F. 513-516
Baggio, B. 113-116
Baker, F. 259-266
Baker, P.N. 403-408
Bähr, V. 57-65
Balcke, P. 471-476, 477-482
Balter, M.S. 155-159
Barrett, E.J. 457-466
Barrios, V. 451-456
Beattie, E.C. 523-530
Bell, G.M. 371-376
Bell, N. 89-95
Bennett, T. 393-401
Benthin, G. 639-645
Bergström, J. 331-337
Bernabeu, F. 551-558
Bhatia, S.S. 117-121
Bibby, D.C. 657-662
Bloom, S.R. 619-623
Bochner, F. 37-42
Bohr, D.F. 415-423
Bondy, C. 599-603
Boni, C. 443-450
Boolell, M. 5-8
Boon, N.A. 377-380
Borsatti, A. 113-116
Bowman, H.F. 307-313
Bradley, J.R. 239-245
Brandi, L.S. 443-450
Braquet, P. 551-558
Britton, J.R. 315-323, 325-330
Broughton Pipkin, F. 403-408
- Brown, J.E. 377-380
Brown, M.A. 505-511
Burns, H.J.G. 161-165
Burrows, P.C. 175-183
Burston, D. 267-272
Buzzigoli, G. 443-450
- Cadoux-Hudson, T.A.D. 1-3
Caidahl, K. 639-645
Campbell, I.T. 605-611
Campbell, S.K. 117-121
Candiano, G. 647-656
Canessa, M. 531-536
Caro, C.G. 215-220
Castro, A. 149-154
Catalano, C. 167-174
Cercignani, G. 647-656
Cerri, M. 443-450
Chapman, K.R. 155-159
Chapuy, P. 467-470
Christensen, S. 109-112
Clear, A.S. 215-220
Cohen, J. 619-623
Compton, A.M. 393-401
Connell, J.M.C. 51-55
Conway, M. 583-589
Coppack, S.W. 287, 339-348
Cowley, A.J. 239-245
Cragoe, E.J. 357-364
Cruickshank, A.M. 161-165
- Dambrink, J.H.A. 73-79
Davison, J.M. 631-638
Dawson, D.J. 175-183
De Wardener, H.E. 193-200, 289-297
Derfler, K. 471-476
Devynck, M.-A. 613-618
Dickinson, C.J. 543-550
Dolecki, M. 583-589
Dominiczak, A.F. 415-423
Duckworth, R. 605-611
Dudley, C.R.K. 491-497
Duncan, E.M. 37-42
Dunlop, W. 631-638
- Edlund, A. 131-138
El Nahas, A.M. 381-386
El Sayed, A.A. 381-386
Elborn, J.S. 89-95
- Eschenhagen, G. 57-65
Evans, D.B. 239-245
- Fairhurst, J.A. 605-611
Feehally, J. 259-266
Felber, J.P. 513-516
Felley, C.P. 513-516
Ferrannini, E. 443-450
Ferro-Luzzi, A. 227-231
Filitti, V. 613-618
Fine, D.R. 349-355
Finkielman, S. 437-442
Finocchiaro, L.M.E. 437-442
Firth, J.D. 67-71, 221-226, 559-574, 591-598
Fish, P.J. 215-220
Fisher, R.M. 339-348
Fouke, J.M. 307-313
Fraser, W.D. 161-165
Frayn, K.N. 339-348, 605-611
Frediani, M. 443-450
Freeman, D.J. 575-581
Fulcher, G.R. 167-174
Fürst, P. 331-337
- Gaffney, D. 575-581
Gallen, I.W. 279-285
Gambaro, G. 113-116
Garberi, A. 647-656
Gardiner, S.M. 393-401
Gelfand, R.A. 457-466
Ghatei, M.A. 619-623
Ghiggeri, G.M. 647-656
Gibbons, G.F. 339-348
Ginevri, F. 647-656
Girolami, J.-P. 29-35
Goldsmith, D.J.A. 357-364
Goldstein, A.J. 233-238
Gómez-Garre, D. 551-558
Gonick, H.C. 185-192
Goode, H.F. 247-252
Goss, D.E. 215-220
Gove, C. 67-71
Granström, E.F. 639-645
Grant, P.J. 513-516
Green, J.R.B. 663-668
Griffin, S.A. 523-530
Grimble, R.F. 657-662
Grimm, G. 477-482
Grover, P.K. 9-15

- Guillou, P.J. 247-252
 Gusmano, R. 647-656
- Haines, D.J. 663-668
 Hall, R.I. 247-252
 Halls, J. 215-220
 Harmeyer, J. 409-414
 Hartley, G. 517-522
 Hauser, A.-C. 471-476
 Haylor, J. 381-386
 Heath, D.F. 201-213
 Hensen, J. 429-435
 Heseltine, D. 517-522
 Hilton, P.J. 357-364
 Hjelte, L. 299-305
 Holmes, R. 175-183
 Hulks, G. 51-55
 Humphreys, S.M. 339-348
 Hunter, J.O. 425-427
- Imholz, B.P.M. 73-79
 Ireland, S.B. 537-542
- Jackson, A.A. 253-258
 Jadine, A.G. 51-55
 Jamal, Y.S. 139-147
 James, G. 371-376
 James, M.A. 499-504
 James, O.F.W. 517-522
 Janata, O. 471-476
 Jenkins, D. 669-670
 Jenkins, M.V. 233-238
 Johns, E.J. 43-50
 Jones, J.V. 499-504
 Jones, P.W. 17-21
 Jorfeldt, L. 81-87
- Kador, P. 599-603
 Karemaker, J.M. 73-79
 Katakity, M. 233-238
 Kaune, R. 409-414
 Kelleher, J. 247-252
 Kelly, S.M. 425-427
 Kelsey, C.R. 233-238
 Kemp, G.J. 491-497
 Khalil-Manesh, F. 185-192
 Khoja, S.M. 483-490
 Knox, A.J. 315-323, 325-330
 Kruithof, E.K.O. 513-516
 Kurz, R.W. 477-482
- Lagarde, M. 467-470
 Lam, H.-C. 619-623
 Lanne, B. 639-645
 Laragh, J.H. 371-376
 Larsson, M. 299-305
 Le Quan, Sang, K.H. 613-618
 Leclercq, C. 227-231
 Ledingham, J.G.G. 1-3, 67-71, 491-497, 559-574, 583-589
- Lee, M.R. 377-380
 Leenen, F.H.H. 155-159
 Levenson, J. 613-618
 Lever, M.J. 215-220
 Lightman, Stan 599-603
 Lightman, Susan 599-603
 Linde, B. 131-138
 Lloyd, J.V. 37-42
 Lobley, R.W. 175-183
 Louard, R.J. 457-466
 Loveridge, N. 233-238
 López-Farré, A. 551-558
 López-Novoa, J.M. 551-558
 Lyall, F. 523-530
- Macdonald, I.A. 279-285, 517-522
 MacGregor, G.A. 5-8
 MacLaughlin, M. 23-27
 MacNee, W. 97-107
 Macovschi, O. 467-470
 Macphail, S. 625-630, 631-638
 MacPherson, F. 523-530
 Maleki-Yazdi, M.R. 155-159
 Malmberg, A.-S. 299-305
 Marchetti, J. 29-35
 Marchini, F. 113-116
 Marriott, I. 43-50
 Marshall, J.M. 43-50
 Marshall, V.R. 9-15
 Marzaro, G. 113-116
 Matthews, D.M. 267-272
 Maycock, P.F. 605-611
 McDonough, M.J. 339-348
 McFadden, E.R., Jr 307-313
 McNally, P.G. 259-266
 Mello Aires, M. 23-27
 Meskini, N. 467-470
 Millar, J.G.B. 117-121
 Mistry, N. 259-266
 Moran, B.J. 253-258
 Morris, J. 357-364
 Morton, J.J. 523-530
 Mosca, F. 443-450
 Mott, V. 625-630
 Müller, A. 149-154
 Muller, A.F. 393-401
- Nahmod, V.E. 437-442
 Nemoz, G. 467-470
 Newsholme, E.A. 483-490
 Ng, L.L. 491-497
 Nicholls, D.P. 89-95
 Northfield, T.C. 349-355
- Oelkers, W. 57-65
 Oleggini, M. 443-450
 Oleggini, R. 647-656
 Orskov, H. 167-174
- Packard, C.J. 575-581
 Panos, M.Z. 67-71
 Parker, K.H. 215-220
 Pasque, C.B. 123-129
 Pecker, M. 371-376
 Pecori, N. 443-450
 Perez-Rodrigo, P. 551-558
 Persson, L. 639-645
 Petersen, J.S. 109-112
 Petersson, A.-S. 639-645
 Petranyi, G. 167-174
 Pirola, C.J. 437-442
 Pithois-Merli, I. 613-618
 Poston, L. 273-278, 357-364
 Potter, J.F. 517-522
 Potts, J.L. 339-348
 Praddaude, F. 29-35
 Prigent, A.F. 467-470
- Quirk, F.H. 17-21
- Radda, G.K. 1-3, 491-497, 583-589
 Raine, A.E.G. 67-71, 221-226
 Rajagopalan, B. 1-3, 583-589
 Ramon y Cajal, S. 551-558
 Ranaldi, L. 227-231
 Ratcliffe, P.J. 491-497
 Rebuck, A.S. 155-159
 Regan, C.J. 605-611
 Reinhart, W.H. 387-391
 Riley, M. 89-95
 Roberts, A.F.C. 221-226
 Rodriguez, M. 123-129
 Rodríguez-Sánchez, M.N. 451-456
 Rohner, F. 387-391
 Rose, G.A. 233-238
 Russo, D. 523-530
 Rutberg, H. 81-87
 Rutherford, P.A. 365-369
 Ryall, R.L. 9-15
- Saphier, P.W. 233-238
 Scheucher, A. 437-442
 Schrier, R.W. 429-435
 Schröder, B. 409-414
 Schwietzer, G. 57-65
 Sealey, J.E. 371-376
 Selby, C. 97-107
 Sertl, K. 477-482
 Shalmi, M. 109-112
 Sharif, H. 583-589
 Shenkin, A. 161-165
 Shepherd, J. 575-581
 Siebert, D.M. 37-42
 Silva, A. 619-623
 Simon, A. 613-618
 Sleight, P. 583-589
 Smaje, L.H. 5-8

- Sollevi, A. 131-138
Somogyi, A.A. 37-42
Stamp, T.C.B. 233-238
Stanford, C.F. 89-95
Stewart, P.M. 537-542
Stockenhuber, F. 471-476, 477-482
Strandvik, B. 299-305
Strazzullo, P. 531-536
Swan, C.H.J. 663-668
Symonds, E.M. 403-408
- Takahashi, K. 619-623
Tattersfield, A.E. 315-323, 325-330
Taylor, D.J. 491-497
Thiede, H.M. 57-65
Thomas, T.H. 365-369, 625-630,
631-638
Thomsen, K. 109-112
- Thomson, N.C. 51-55
Tooke, J.E. 5-8
Toti, E. 227-231
Tran-Van, T. 29-35
Tuchelt, H. 57-65
- Van Damme, J. 161-165
Villamil, M.F. 149-154
Vinnars, E. 331-337
- Walker, B.E. 247-252
Walker, M. 167-174
Waller, D.G. 117-121
Walls, J. 259-266
Warwick, R. 175-183
Wasserman, S.M. 5-8
Watson, M. 357-364
- Weiler, E. 185-192
Wennmalm, Å. 639-645
Westaby, D. 67-71
Wieling, W. 73-79
Wilkinson, R. 365-369, 625-630,
631-638
Williams, H.E. 113-116
Williams, R. 67-71
Williams, S.A. 5-8
Wilson, K.M. 37-42
Winell, S. 639-645
Wolin, A.D. 307-313
Woodley, J.F. 663-668
Woolfson, R.G. 273-278
- Zammit, V.C. 505-511
Zentler-Munro, P.L. 349-355

Volume 79

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.

- Acetylcholine
 endothelium-dependent relaxation, resistance
 arteries 273-278
- Acute metabolic acidosis
 lithium 23-27
- Acute renal failure
 platelet-activating factor, glycerol 551-558
- Acute-phase protein response
 interleukin-6 161-165
- Adenosine
 cardiac output, regional circulation 131-138
- Adipose tissue
 postprandial substrate deposition 339-348
- Adrenaline
 oxygen 155-159
- Adriamycin nephrosis
 dietary protein restriction, xanthine
 oxidase 647-656
- Affinity constant
 sodium pump, erythrocytes 625-630
- Ageing
 blood mononuclear cells, cyclic
 phosphodiesterase 467-470
 orthostatic hypotension, postural changes 73-79
- Airway smooth muscle contractility
 sodium-transport inhibitors 315-323
- Aldose reductase
 lens, diabetes 599-603
- Aldosterone
 angiotensin II, atrial natriuretic factor 57-65
- Alkaline phosphatase
 zinc, gastrointestinal neoplasms 247-252
- Amiloride
 airway smooth muscle contractility 315-323
 bronchial reactivity, histamine 325-330
- Amino acid kinetics
 skeletal muscle, branched-chain amino
 acids 457-466
- Amino acids
 muscle, glucocorticoids 139-147
 muscle and plasma, dietary protein 331-337
 renal function, isolated kidney 381-386
- Amiodarone
 erythrocyte membrane 387-391
- Angiotensin II
 aldosterone, atrial natriuretic factor 57-65
 hypertrophy, hypertension 523-530
 pregnancy-induced hypertension 505-511
 sodium handling, nephrotic syndrome 559-574
- Angiotensin II binding
 platelets, pregnancy 403-408
- Angiotensin-converting enzyme inhibitors
 kidney, kininases 29-35
 regional haemodynamics 393-401
- L-Arabinose excretion
 intestinal permeability, lactase deficiency 175-183
- L-Arginine
 endothelium-derived relaxing factor, cyclosporin A
 derivatives 149-154
 renal function, isolated kidney 381-386
- Arterial blood flow pattern
 atherosclerosis, isosorbide dinitrate 215-220
- Aspirin infusion
 platelet aggregation, thromboxane 37-42
- Asthma
 blood flow, cold challenge 307-313
 distress, quality of life 17-21
- Atherosclerosis
 arterial blood flow pattern, isosorbide
 dinitrate 215-220
- Atrial natriuretic peptide
 bronchomotor tone 51-55
 cardiac tamponade 377-380
 renin-angiotensin system, sodium depletion 57-65
 sodium excretion, diurnal variation 371-376
 sodium handling, nephrotic syndrome 559-574
 sodium retention, cirrhosis 67-71
- Atrial stretch
 atrial natriuretic peptide 377-380
- Autologous serum
 sodium-proton exchange, leucocytes 357-364
- Autonomic function
 postprandial blood pressure 517-522
- Bias
 primed infusion, Steele equation 201-213
- Biocompatibility
 membrane attack complex, haemodialysis 471-476
- Blood flow
 cold challenge, asthma 307-313
 skeletal muscle, chronic renal failure 239-245
- Blood gases
 catheterization, femoral vessels 81-87
- Blood mononuclear cells
 cyclic phosphodiesterase, ageing 467-470
- Blood pressure
 calcium regulation, cell membrane
 abnormalities 415-423*

- Cushing reflex 543–550*
 - hypertrophy, renin–angiotensin system 523–530
 - ventricular arrhythmia, working heart model 499–504
- Blood pressure determination
 - postural changes, ageing 73–79
- Blood-pressure micropuncture
 - capillary, hypertension 5–8
- Brain
 - somatostatin receptors, ethanol 451–456
- Branched-chain amino acids
 - proteolysis, skeletal muscle 457–466
- Bronchial reactivity
 - histamine, sodium-transport inhibitors 325–330
- Bronchomotor tone
 - atrial natriuretic peptide 51–55
- Calcitriol receptor
 - pseudo-vitamin D deficiency rickets type I 409–414
- Calcium
 - platelets, shear stress, hypertension 613–618
- Calcium oxalate crystallization
 - urate 9–15
- Calcium regulation
 - cell membrane abnormalities, hypertension 415–423*
- Calcium-channel blockers
 - renal haemodynamics, cyclosporin A 259–266
- Calcium-entry blocker
 - isolated perfused heart, endothelin 221–226
- Capillary
 - blood-pressure micropuncture, hypertension 5–8
- Captopril
 - regional haemodynamics 393–401
 - sodium excretion, nephrotic syndrome 123–129
- Cardiac output
 - adenosine 131–138
 - endothelin, calcium-entry blocker 221–226
- Cardiac tamponade
 - atrial natriuretic peptide 377–380
- Cardiovascular system
 - eicosanoids, inheritance and environmental factors 639–645
- Catecholamines
 - adenosine 131–138
 - dopamine infusion 605–611
 - hypoglycaemia, glucose-clamp technique 279–285
 - oxygen 155–159
 - postprandial blood pressure 517–522
- Catheterization
 - leg blood flow, substrate exchange 81–87
- Cholesterol
 - erythrocyte membrane, amiodarone 387–391
- Cholesteryl ester transfer protein
 - restriction fragment length polymorphism, high-density lipoprotein cholesterol 575–581
- Chromatography
 - endothelin, Gram-negative bacteraemia 619–623
- Chronic heart failure
 - skeletal muscle, metabolism 583–589
 - substrate utilization, exercise 89–95
- Chronic renal failure
 - blood flow, skeletal muscle 239–245
 - pruritus, histamine 477–482
- Chylomicrons
 - forearm muscle, adipose tissue 339–348
- Chyme
 - lipolysis, enzyme inhibitors 349–355
- Cirrhosis
 - sodium retention, atrial natriuretic peptide 67–71
- Coeliac disease
 - excretion of raffinose, lactose and L-arabinose 175–183
- Cold challenge
 - blood flow, asthma 307–313
- Colonic permeability
 - urea 253–258
- Colostomy
 - urea metabolism and hydrolysis 253–258
- Complement
 - haemodialysis 471–476
- Congestive heart failure
 - noradrenaline 429–435
- Coronary vasoconstriction
 - endothelin, calcium-entry blocker 221–226
- C-reactive protein
 - surgery, interleukin-6 161–165
- Cremophor
 - endothelium-derived relaxing factor 149–154
- Crohn's disease
 - excretion of raffinose, lactose and L-arabinose 175–183
- Cushing reflex
 - a reappraisal 543–550*
- Cyclic phosphodiesterase
 - blood mononuclear cells, ageing 467–470
- Cyclosporin A
 - renal haemodynamics, nifedipine 259–266
 - vehicles, endothelium-derived relaxing factor 149–154
- Cystic fibrosis
 - essential fatty acid deficiency, renal function 299–305
- Defence response
 - emotional stress, skin blood flow 43–50
- Defunctioned colon
 - urea metabolism and hydrolysis 253–258
- Desamino-D-arginine-vasopressin
 - kallikrein, urine 117–121
- Diabetes
 - aldose reductase, lens 599–603
 - primed infusion, glucose 201–213
- Dietary fat
 - prostaglandin E₂, tumour necrosis factor- α 657–662
- Dietary protein
 - adriamycin nephrosis, xanthine oxidase 647–656
 - muscle and plasma amino acids 331–337
- Digestion
 - fatty acids, enzyme inhibitors 349–355
- Digoxin
 - bronchial reactivity, histamine 325–330

- 1,25-Dihydroxyvitamin D₃
 pseudo-vitamin D deficiency rickets type I 409–414
- Discretionary salt intake
 lithium-marker technique, population studies 227–231
- Distress
 asthma, quality of life 17–21
- Diuretics
 sodium handling, nephrotic syndrome 559–574
- Diurnal variation
 sodium excretion, atrial natriuretic peptide 371–376
- Dopamine infusion
 metabolic effects 605–611
- Dye dilution
 leg blood flow 81–87
- Emotional stress
 skin blood flow, laser Doppler flowmetry 43–50
- Enalaprilat
 regional haemodynamics 393–401
- Endogenous sodium–potassium adenosine triphosphatase inhibitor
 enzyme kinetics 185–192
- Endothelin
 Gram-negative bacteraemia, tumour necrosis factor- α 619–623
 isolated perfused heart 221–226
 sodium handling, nephrotic syndrome 559–574
- Endothelium-dependent relaxation
 resistance arteries, *N*^G-monomethyl-L-arginine 273–278
- Endothelium-derived relaxing factor
 cyclosporin A vehicles 149–154
- Endotoxin
 endothelin, tumour necrosis factor- α 619–623
 prostaglandin E₂, dietary fats 657–662
- Energy expenditure
 surgical stress, insulin resistance 443–450
- Environmental factors
 prostacyclin, platelet activity 639–645
- Enzyme kinetics
 lead, endogenous sodium–potassium adenosine triphosphatase inhibitor 185–192
- Enzymes
 intestinal mucosa, uraemia 663–668
- Epidermal growth factor
 mucus, gastric mucosa 425–427
- Erythrocyte membrane
 cholesterol, amiodarone 387–391
- Erythrocytes
 deformability, amiodarone 387–391
 sodium–lithium countertransport, sodium affinity 365–369
 sodium pump 625–630
 sodium pump, pregnancy 631–638
- Escherichia coli*
 endothelin, tumour necrosis factor- α 619–623
- Essential fatty acid deficiency
 cystic fibrosis, renal function 299–305
- Essential hypertension
 kidney, salt intake 193–200*, 289–297*
 sodium–lithium countertransport, sodium affinity 365–369
- Ethanol
 brain, somatostatin receptors 451–456
- Exercise
 skeletal muscle, chronic heart failure 583–589
 sodium–proton antiport, hypertension 491–497
 substrate utilization, chronic heart failure 89–95
- Fats
 prostaglandin E₂, tumour necrosis factor- α 657–662
- Fatty acid production
 lipase, enzyme inhibitors 349–355
- Femoral artery
 catheterization, substrate exchange 81–87
- Femoral vein
 catheterization, substrate exchange 81–87
- Fluoride
 osteoporosis, parathyroid hormone 233–238
- Forearm metabolism
 insulin sensitivity, non-esterified fatty acids 167–174
- Forearm muscle
 postprandial substrate deposition 339–348
- Free fatty acids
 catheterization, femoral vessels 81–87
 forearm muscle, adipose tissue 339–348
 substrate utilization, chronic heart failure 89–95
- Frontoparietal cortex
 somatostatin receptors, ethanol 451–456
- Functioning colon
 urea metabolism and hydrolysis 253–258
- Galactosaemia
 aldose reductase, lens 599–603
- Gastric mucosa
 mucus, epidermal growth factor 425–427
- Gastrointestinal neoplasms
 leucocyte and muscle zinc, alkaline phosphatase 247–252
- Glomerular filtration rate
 essential fatty acid deficiency, cystic fibrosis 299–305
 isolated kidney, amino acids 381–386
 platelet-activating factor, acute renal failure 551–558
- Glomeruli
 platelet-activating factor, acute renal failure 551–558
- Glomerulotubular balance
 sodium excretion, nephrotic syndrome 123–129
- Glucocorticoids
 glutamine metabolism, muscle 139–147
- Gluconeogenesis
 kidney, sepsis 483–490
- Glucose
 catheterization, femoral vessels 81–87
 dopamine infusion 605–611
 forearm muscle, adipose tissue 339–348
 plasminogen activator inhibitor-1 513–516
 primed infusion, bias 201–213

- Glucose clamp
 thermogenesis, catecholamines 279–285
 surgical stress, insulin resistance 443–450
- Glucose–fatty acid cycle
 non-insulin-dependent diabetes mellitus 167–174
- L-Glutamic acid
 renal function, isolated kidney 381–386
- Glutaminase
 muscle, glucocorticoids 139–147
- Glutamine metabolism
 muscle, glucocorticoids 139–147
- Glutamine synthetase
 muscle, glucocorticoids 139–147
- Glycerol
 acute renal failure, platelet-activating factor 551–558
 adenosine 131–138
 catheterization, femoral vessels 81–87
 substrate utilization, chronic heart failure 89–95
- Glycine
 renal function, isolated kidney 381–386
- Glycosaminoglycans
 oxalate, nephrolithiasis 113–116
- G-proteins
 blood mononuclear cells, ageing 467–470
- Gram-negative bacteraemia
 endothelin, tumour necrosis factor- α 619–623
- Guanosine 3':5'-cyclic monophosphate
 diurnal variation, atrial natriuretic peptide 371–376
- Haemodialysis
 membrane attack complex, biocompatibility 471–476
 uraemic pruritus, histamine 477–482
- 5-(*N,N*-Hexamethylene) amiloride
 sodium–proton exchange, leucocytes 357–364
- High-density lipoprotein cholesterol
 restriction fragment length polymorphism, cholesteryl ester transfer protein 575–581
- Hippocampus
 somatostatin receptors, ethanol 451–456
- Histamine
 bronchial reactivity, sodium-transport inhibitors 325–330
 uraemic pruritus, haemodialysis 477–482
- Human brain *in vivo*
 intracellular pH, hypercapnia 1–3
- 5-Hydroxytryptamine
 pineal gland, hypertension 437–442
- Hypercapnia
 human brain *in vivo*, intracellular pH 1–3
- Hypertension
 angiotensin-converting enzyme inhibitors, kidney 29–35
 calcium regulation, cell membrane abnormalities 415–423*
 capillary, blood-pressure micropuncture 5–8
 Cushing reflex 543–550*
 hypertrophy, renin–angiotensin system 523–530
 kidney, salt intake 193–200*, 289–297*
- pineal gland, muscarinic activity 437–442
 platelet cytosolic free calcium concentration, shear stress 613–618
 sodium–lithium countertransport, sodium affinity 365–369
 sodium–proton antiport, skeletal muscle 491–497
- Hypertrophy
 hypertension, renin–angiotensin system 523–530
- Hyperuricosuria
 calcium oxalate crystallization 9–15
- Hypocalcaemia
 calcitriol receptor, pseudo-vitamin D deficiency rickets type I 409–414
- Hypoglycaemia
 thermogenesis, catecholamines 279–285
- Ibuprofen
 sodium excretion, nephrotic syndrome 123–129
- Idiopathic nephrotic syndrome
 susceptibility determinants, linkage disequilibrium 669–670
- In situ* hybridization
 aldose reductase, lens 599–603
- Inheritance
 prostacyclin, platelet activity 639–645
- Inhibition of metabolism
 sodium handling, nephrotic syndrome 559–574
- Insulin
 forearm muscle, adipose tissue 339–348
 plasminogen activator inhibitor-1 513–516
 postprandial blood pressure 517–522
- Insulin resistance
 surgical stress, glucose clamp 443–450
- Insulin sensitivity
 forearm metabolism, non-esterified fatty acids 167–174
- Interleukin-6
 surgery, C-reactive protein 161–165
- Intestinal mucosa
 enzymes, uraemia 663–668
- Intestinal permeability
 excretion of raffinose, lactose and L-arabinose 175–183
- Intracellular pH
 human brain *in vivo*, hypercapnia 1–3
 leucocytes, autologous serum 357–364
- Isolated perfused heart
 endothelin, calcium-entry blocker 221–226
- Isolated perfused kidney
 nephrotic syndrome, polycations 591–598
 sodium handling, nephrotic syndrome 559–574
- Isosorbide dinitrate
 arterial blood flow pattern, atherosclerosis 215–220
- Jejunum
 peptides, kinetics of influx 267–272
- Kallikrein
 urine, desamino-D-arginine-vasopressin 117–121

- Kallikrein-kinin system**
 angiotensin-converting enzyme inhibitors,
 kidney 29-35
- Kidney**
 angiotensin-converting enzyme inhibitors,
 kininases 29-35
 essential hypertension, salt intake 193-200*,
 289-297*
 regulation of gluconeogenesis, sepsis 483-490
- Kidney failure**
 small intestine, enzymes 663-668
- Kidney function**
 amino acids 381-386
- Kidney perfusion**
 sodium retention, atrial natriuretic peptide 67-71
- Kinetics**
 neutrophils, lungs 97-107*
 peptides, jejunum 267-272
 renal tubular acidification, lithium 23-27
 sodium-proton antiporter, lymphocytes 531-536
- Kininases**
 kidney, angiotensin converting enzyme
 inhibitors 29-35
- Labrafil**
 endothelium-derived relaxing factor 149-154
- Lactase deficiency**
 excretion of raffinose, lactose and
 L-arabinose 175-183
- Lactate**
 catheterization, femoral vessels 81-87
- Lactose excretion**
 intestinal permeability, lactase deficiency 175-183
- Laser Doppler flowmetry**
 skin blood flow, emotional stress 43-50
- Lead**
 enzyme kinetics 185-192
- Leg blood flow**
 dye dilution, strain-gauge plethysmography 81-87
- Lens**
 aldose reductase, diabetes 599-603
- Leucine**
 renal function, isolated kidney
 skeletal muscle, branched-chain amino
 acids 457-466
- Leucocytes**
 sodium-proton antiport, hypertension 491-497
 sodium-proton exchange, autologous
 serum 357-364
 zinc, gastrointestinal neoplasms 247-252
- Linkage disequilibrium**
 idiopathic nephrotic syndrome, susceptibility
 determinants 669-670
- Lipase**
 fatty acids, enzyme inhibitors 349-355
- Lipolysis**
 dopamine infusion 605-611
 enzyme inhibitors, chyme 349-355
- Lipopolysaccharide**
 endothelin, tumour necrosis factor- α 619-623
- Lisinopril**
 regional haemodynamics 393-401
- Lithium**
 renal tubular acidification, kinetics 23-27
 urinary excretion, discretionary salt intake 227-231
- Lithium reabsorption**
 sodium restriction, water loading 109-112
- Lung**
 neutrophil kinetics 97-107*
- Lymphocytes**
 sodium-proton antiporter, kinetics 531-536
- Magnesium**
 ventricular arrhythmia, blood pressure 499-504
- Maximal enzyme activities**
 renal gluconeogenesis, sepsis 483-490
- Maximum velocity**
 sodium pump, erythrocytes 625-630
- Melatonin**
 pineal gland, hypertension 437-442
- Membrane abnormalities**
 calcium regulation, hypertension 415-423*
- Membrane attack complex**
 biocompatibility, haemodialysis 471-476
- Metabolism**
 skeletal muscle, chronic heart failure 583-589
- Microcirculation**
 hypertension 5-8
- N-Monomethyl-L-arginine**
 endothelium-dependent relaxation, resistance
 arteries 273-278
- Mucus**
 gastric mucosa, epidermal growth factor 425-427
- Muscarinic activity**
 pineal gland, hypertension 437-442
- Muscle**
 amino acids, dietary protein 331-337
 blood flow, chronic renal failure 239-245
 glutamine metabolism, glucocorticoids 139-147
 zinc, gastrointestinal neoplasms 247-252
- Myocardial wall stress**
 ventricular arrhythmia, working heart
 model 499-504
- Nephrolithiasis**
 oxalate, glycosaminoglycans 113-116
- Nephrotic syndrome**
 glomerulotubular balance, sodium
 excretion 123-129
 polycations, isolated perfused kidney 591-598
 sodium handling, isolated perfused kidney 559-574
- Neutrophils**
 kinetics, lung 97-107*
- Nicardipine**
 isolated perfused heart, endothelin 221-226
- Nifedipine**
 renal haemodynamics, cyclosporin A 259-266
- Nitrogen**
 urea hydrolysis, functioning and defunctioned
 colon 253-258

- Non-esterified fatty acids
 forearm metabolism, insulin sensitivity 167–174
- Noradrenaline
 congestive heart failure 429–435
 oxygen 155–159
 sodium handling, nephrotic syndrome 559–574
 substrate utilization, chronic heart failure 89–95
- Nuclear magnetic resonance spectroscopy
 intracellular pH, human brain *in vivo* 1–3
 skeletal muscle, metabolism 583–589
 sodium–proton antiport, skeletal muscle 491–497
- Orthostatic hypotension
 postural changes, ageing 73–79
- Osteoporosis
 parathyroid hormone, fluoride 233–238
- Ouabain
 airway smooth muscle contractility 315–323
- Oxalate
 glycosaminoglycans, nephrolithiasis 113–116
- Oxygen
 catecholamines 155–159
- Oxygen consumption
 dopamine infusion 605–611
- Parathyroid hormone
 osteoporosis, fluoride 233–238
- Pearson product-moment correlation
 limitations 287
- Peptide hydrolases
 intestinal mucosa, uraemia 663–668
- Peptides
 kinetics of influx, jejunum 267–272
- Pharmacokinetics
 tobramycin, essential fatty acid deficiency 299–305
- Pineal gland
 muscarinic activity, hypertension 437–442
- Plasma
 amino acids, dietary protein 331–337
- Plasminogen activator inhibitor-1
 insulin, triacylglycerol 513–516
- Platelet activity
 inheritance and environmental factors 639–645
- Platelet aggregation
 aspirin infusions, thromboxane 37–42
- Platelet membrane glycoproteins
 angiotensin II, pregnancy 403–408
- Platelet-activation factor
 acute renal failure, glycerol 551–558
- Platelets
 cytosolic free calcium concentration, shear stress 613–618
- Polycations
 isolated perfused kidney, nephrotic syndrome 591–598
- Poly-L-lysine
 isolated perfused kidney, nephrotic syndrome 591–598
- Polyoxyethylated derivatives
 endothelium-derived relaxing factor 149–154
- Postprandial blood pressure
 autonomic function, insulin 517–522
- Posture
 orthostatic hypotension, ageing 73–79
 sodium excretion, atrial natriuretic peptide 371–376
- Potassium
 ventricular arrhythmia, blood pressure 499–504
- Potassium-activated *p*-nitrophenylphosphatase
 lead, endogenous sodium–potassium adenosine triphosphatase inhibitor 185–192
- Pregnancy
 platelet angiotensin II binding, renin–angiotensin system 403–408
 sodium pump, erythrocytes 631–638
- Pregnancy-induced hypertension
 renin 505–511
- Primed infusion
 glucose, bias 201–213
- Prostacyclin
 inheritance and environmental factors 639–645
- Prostaglandin E₂
 tumour necrosis factor- α , dietary fats 657–662
- Protamine
 isolated perfused rat kidney, nephrotic syndrome 591–598
- Protein degradation
 uraemia 537–542
- Protein intake
 muscle and plasma amino acids 331–337
- Protein synthesis
 uraemia 537–542
- Proteinuria
 dietary protein restriction, xanthine oxidase 647–656
- Proteolysis
 skeletal muscle, branched-chain amino acids 457–466
- Protons
 skeletal muscle, hypertension 491–497
- Pruritus
 histamine, haemodialysis 477–482
- Pseudo-vitamin D deficiency rickets type I
 calcitriol receptor 409–414
- Purine nucleoside phosphorylase
 dietary protein restriction, adriamycin nephrosis 647–656
- Puromycin aminonucleoside
 sodium handling, isolated perfused rat kidney 559–574
- Quality of life
 asthma, distress 17–21
- Raffinose excretion
 intestinal permeability, lactase deficiency 175–183
- Rate constant
 sodium pump, erythrocytes 625–630
- Regional haemodynamics
 adenosine 131–138
 angiotensin-converting enzyme inhibitors 393–401

- Renal blood flow
 - platelet-activating factor, acute renal failure 551–558
- Renal gluconeogenesis
 - maximal enzyme activities, sepsis 483–490
- Renal haemodynamics
 - nifedipine, cyclosporin A 259–266
 - sodium excretion, nephrotic syndrome 123–129
- Renal tubular acidification
 - kinetics, lithium 23–27
- Renal tubules
 - regulation of gluconeogenesis, sepsis 483–490
- Renin
 - hypertrophy, hypertension 523–530
 - pregnancy-induced hypertension 505–511
 - sodium excretion, atrial natriuretic peptide 371–376
- Renin-angiotensin system
 - atrial natriuretic peptide, sodium depletion 57–65
 - platelet angiotensin II binding, pregnancy 403–408
- Resistance arteries
 - endothelium-dependent relaxation N^G -mono-L-arginine 273–278
- Restriction fragment length polymorphism
 - cholesteryl ester transfer protein, high-density lipoprotein cholesterol 575–581
- Salt intake
 - essential hypertension, kidney 193–200*, 289–297*
- Sepsis
 - regulation of renal gluconeogenesis 483–490
- Shear rate
 - platelet cytosolic free calcium concentration, hypertension 613–618
- Shear stress
 - platelet cytosolic free calcium concentration, hypertension 613–618
- Skeletal muscle
 - blood flow, chronic renal failure 239–245
 - glutamine metabolism, glucocorticoids 139–147
 - metabolism, chronic heart failure 583–589
 - proteolysis, branched-chain amino acids 457–466
 - sodium-proton antiport, hypertension 491–497
- Skin blood flow
 - emotional stress, laser Doppler flowmetry 43–50
- Small intestine
 - enzymes, uraemia 663–668
- Sodium
 - skeletal muscle, hypertension 491–497
- Sodium affinity
 - sodium-lithium countertransport, essential hypertension 365–369
- Sodium depletion
 - renin-angiotensin system, atrial natriuretic peptide 57–65
- Sodium excretion
 - diurnal variation, atrial natriuretic peptide 371–376
 - glomerulotubular balance, nephrotic syndrome 123–129
- Sodium handling
 - nephrotic syndrome, isolated perfused kidney 559–574
- Sodium intake
 - lithium-marker technique, population studies 227–231
- Sodium-lithium countertransport
 - sodium affinity, essential hypertension 365–369
- Sodium-potassium-activated adenosine triphosphatase
 - lead, endogenous sodium-potassium adenosine triphosphatase inhibitor 185–192
- Sodium-proton antiporter
 - kinetics, lymphocyte 531–536
 - leucocytes, autologous serum 357–364
 - skeletal muscle, hypertension 491–497
- Sodium pump
 - affinity constant, maximum velocity, rate constant 625–630, 631–638
- Sodium resorption
 - lithium, renal tubular acidification 23–27
- Sodium restriction
 - tubular lithium reabsorption, water loading 109–112
- Sodium retention
 - cirrhosis, atrial natriuretic peptide 67–71
- Sodium-transport inhibitors
 - airway smooth muscle contractility 315–323
- Somatostatin receptors
 - brain, ethanol 451–456
- Specific airway conductance
 - atrial natriuretic peptide 51–55
- Steele equation
 - primed infusion, bias 201–213
- Strain-gauge plethysmography
 - leg blood flow 81–87
- Stress
 - skin blood flow, laser Doppler flowmetry 43–50
- Substrate oxidation
 - non-esterified fatty acids 167–174
- Substrate utilization
 - exercise, chronic heart failure 89–95
- Surgery
 - insulin resistance, glucose clamp 443–450
 - interleukin-6, C-reactive protein 161–165
 - leucocyte and muscle zinc, alkaline phosphatase 247–252
- Susceptibility determinants
 - idiopathic nephrotic syndrome, linkage disequilibrium 669–670
- Terminal complement complex
 - haemodialysis 471–476
- Thermal conductivity
 - cold challenge, asthma 307–313
- Thermogenesis
 - hypoglycaemia, glucose-clamp technique 279–285
- Thermoregulation
 - skin blood flow, laser Doppler flowmetry 43–50
- Thromboxane
 - inheritance and environmental factors 639–645
 - platelet aggregation, aspirin infusions 37–42
- Tobramycin
 - pharmacokinetics, essential fatty acid deficiency 299–305

- Triacylglycerol
 forearm muscle, adipose tissue 339-348
 plasminogen activator inhibitor-1 513-516
 Tubular lithium reabsorption
 sodium restriction, water loading 109-112
 Tumour necrosis factor- α
 Gram-negative bacteraemia, endothelin 619-623
 prostaglandin E₂, dietary fats 657-662

 Uraemia
 protein turnover 537-542
 small intestine, enzymes 663-668
 Uraemic pruritus
 haemodialysis, histamine 477-482
 Urate
 calcium oxalate crystallization 9-15
 Urea
 essential fatty acid deficiency, cystic
 fibrosis 299-305
 Urea hydrolysis
 functioning and defunctioned colon 253-258
 Urea metabolism
 functioning and defunctioned colon 253-258
 Urinary excretion
 lithium, discretionary salt intake 227-231
 Urine
 calcium oxalate crystallization, urate 9-15
 kallikrein, desamino-D-arginine-
 vasopressin 117-121

 Urolithiasis
 hyperuricosuria 9-15

 Vascular conductance
 angiotensin-converting enzyme inhibitors 393-401
 Vascular reactivity
 cold challenge, asthma 307-313
 Vasodilatation
 isolated kidney, amino acids 381-386
 Vasopressin
 kallikrein, urine 117-121
 Ventricular arrhythmia
 blood pressure, working heart model 499-504
 Verapamil
 isolated perfused heart, endothelin 221-226

 Water loading
 tubular lithium reabsorption, sodium
 restriction 109-112
 Working heart model
 ventricular arrhythmia, blood pressure 499-504

 Xanthine oxidase
 dietary protein restriction, adriamycin
 nephrosis 647-656

 Zinc
 gastrointestinal neoplasms, surgery 247-252