

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

© The Medical Research Society and the Biochemical Society 1996  
ISSN 0143-5221

*Typeset by Unicus Graphics Ltd, Horsham,  
and printed in Great Britain by Bell and Bain Ltd, Glasgow*

## ACKNOWLEDGMENTS

The Editorial Board of *Clinical Science* gratefully acknowledges the assistance given by the following referees during the year 1995.

- Abernathy, D.  
Agardh, E.  
Agrotis, A.  
Aitkenhead, A.R.  
Ali, N.  
Andersen, D.  
Anderson, S.  
Andrews, F.  
Angelin, B.  
Araki, S.  
Archard, L.  
Ardawi, M.S.M.  
Arieff, A.I.  
Armstrong, V.W.  
Arnold, J.M.O.  
Arnqvist, H.  
Arslanian, S.  
Arthur, J.  
Astarie Dequecker, C.  
Bailey, R.R.  
Baines, A.  
Bankir, L.  
Banks, R.  
Barclay, R.  
Baron, A.D.  
Barradas, M.A.  
Barrett, E.J.  
Barton, H.  
Basse, J.E.  
Batchelard, H.  
Beaudouin-Legros, M.  
Beavan, L.  
Beckett, G.  
Bell, J.  
Belpaire, F.  
Benjamin, N.  
Bennett, A.  
Berl, T.  
Berne, C.  
Besley, G.  
Best, J.  
Beynon, H.  
Bharaj, H.S.  
Bhatnagar, D.  
Bie, P.  
Bishop, J.  
Bistrián, B.R.  
Black, C.  
Blomberg, P.  
Bobik, A.  
Boer, W.H.  
Bolter, C.P.  
Bonham, J.  
Bolton, C.  
Boot-Handford, R.  
Boughton-Smith, N.K.  
Boulanger, C.  
Bowyer, D.E.  
Brain, S.D.  
Brands, M.  
Brasseur, D.  
Breyer, M.D.  
Bringhurst, F.R.  
Britton, K.E.  
Brodie, D.  
Brown, M.A.  
Bryer-Ash, M.  
Bund, S.  
Burdett, K.  
Burdon, R.H.  
Burgess, A.W.  
Burrell, L.M.  
Calder, P.C.  
Calver, A.  
Cameron, N.E.  
Campbell, E.  
Caprio, S.  
Carlson, M.G.  
Caro, C.G.  
Casadei, B.  
Casolaro, A.  
Charles, C.  
Chau, N.P.  
Cherniak, N.  
Cherrington, A.  
Ch'ng, J.L.C.  
Chowienzyk, P.J.  
Chung, K.F.  
Clapp, J.  
Clarke, C.  
Clavey, V.  
Clayton, P.  
Cleland, J.  
Clement, D.L.  
Cline, G.  
Cockcroft, J.R.  
Cole, A.T.  
Collins, A.  
Collins, P.  
Cooke, J.P.  
Crotty, B.  
Crouch, M.  
Cruikshank, J.K.  
Cuspidi, C.  
Dantzker, D.  
Dart, T.  
Davidson, N.  
Davies, D.  
Davies, M.  
Dausse, J.P.  
Day, C.P.  
De Backer, G.  
Deegan, P.C.  
de Jong, N.  
de Leeuw, P.W.  
de Rijke, Y.B.  
de Vernejoul, M.C.  
Deutz, N.  
Dimsdale, J.E.  
Dockray, G.J.  
Donker, A.J.M.  
Donnelly, S.  
Doorly, D.  
Dornhurst, A.  
Dowling, D.  
Dransfield, I.  
Drejer, K.A.  
Dryden, S.  
Dullaart, R.P.F.  
Duprez, D.  
During, M.  
Duthie, G.  
Edelman, A.  
Edelson, G.  
Ec, H.  
Elahi, D.  
Elia, M.  
Emery, P.W.  
Emmerich, J.  
Enholm, C.  
Eriksen, E.F.  
Eriksson, U.  
Escourrou, P.  
Esler, M.D.  
Espiner, E.A.  
Evans, B.  
Fallen, E.  
Fearon, K.  
Feizi, T.  
Feldman, R.  
Fera, J.C.  
Ferguson, A.  
Fernig, D.  
Ferrari, A.U.  
Ferrari, M.D.  
Feuvray, D.  
Fitchett, D.  
Ford, G.A.  
Forster, C.  
Forsling, M.  
Forte, L.R.  
Fosang, A.  
Franceschini, G.  
Frayn, K.N.  
Freeman, D.  
Freestone, S.  
Frelin, C.  
Friedman, P.  
Fryburg, D.  
Fuller, B.J.  
Furst, P.  
Garlick, P.  
Gaultier, C.  
Gefland, R.A.  
Gellai, M.  
Gibson, P.  
Gilchrist, N.L.  
Goode, G.K.  
Goodlad, R.  
Gore, M.  
Gosden, C.M.  
Goto, K.  
Grassi, G.  
Green, A.  
Green, C.J.  
Greenhaff, P.  
Griffiths, R.  
Griffiths, T.M.  
Grimble, G.  
Grimm, M.  
Groop, L.  
Grubeck-Loebenstein, B.  
Haddy, F.  
Hales, C.  
Hales, J.  
Hall, M.J.  
Halliday, D.  
Hans, G.  
Hansen, P.R.  
Hanson, U.  
Harding, J.J.  
Harris, K.  
Head, G.A.  
Heagerty, A.M.  
Helft, G.  
Henderson, I.S.  
Hill, J.  
Hjemdahl, P.  
Holder, D.S.  
Home, P.D.  
Hother Nielsen, O.  
Hughes, A.  
Hughes, P.  
Hughson, R.  
Huisman, R.M.  
Hultcrantz, R.  
Hunter, J.  
Ikeda, U.  
Ikram, H.  
Imaizumi, T.  
Ind, P.  
Iouzalén, L.  
Iredale, J.P.  
Jack, C.I.A.  
Jackson, M.J.  
Jain, B.  
Jakeman, P.M.  
Janssen, W.M.T.  
Jenkinson, S.  
Jennings, G.L.  
Jensen, M.  
Johnson, M.R.  
Johnston, P.W.  
Johnstone, F.  
Jones, D.  
Jones, M.  
Jover, B.  
Julius, S.  
Kamen, P.  
Kaplan, A.  
Khan, F.  
Kingsnorth, A.N.  
Kingwell, B.  
Kinnear, W.  
Klein, G.  
Knox, A.  
Knox, F.  
Koomans, H.A.  
Kopp, U.  
Korner, P.  
Kostuk, W.  
Krediel, R.Th.

- L'Abbate, A.  
 Lacolley, P.  
 Lang, C.C.  
 Langley-Evans,  
   S.C.  
 Lassen, N.A.  
 Laszlo, G.  
 Laurent, S.  
 Lazarus, J.H.  
 Lean, M.E.J.  
 Ledet, T.  
 Lennox, G.  
 Leonard, R.C.F.  
 Le Quan Sang,  
   K.-H.  
 Lerman, A.  
 Lipworth, B.J.  
 Lockwood, M.  
 Lombard, M.  
 Lombardi, F.  
 London, G.  
 Lowe, G.D.O.  
 Luke, R.  
 Lundholm, K.  
 Lyall, F.  
 Lydyard, P.M.  
  
 Macallan, D.  
 MacAllister, R.  
 Macdonald, I.A.  
 Macdonald, P.  
 MacFadyen, R.J.  
 Mackness, M.I.  
 MacLenachan, J.  
 MacNee, W.  
 Maggs, D.  
 Malik, R.  
 Maling, T.J.B.  
 Malluche, H.  
 Manhem, K.  
 Mann, S.  
 Matthias, C.J.  
 Maxwell, S.R.J.  
 McClinton, S.  
 McConnell, A.K.  
 McGrath, B.  
 McGuinness, O.  
 McIntosh, R.S.  
 McLaughlin, P.J.  
 McLay, J.S.  
 McLindon, J.P.  
 McNally, P.  
  
 Meneilly, G.S.  
 Mikhailidis, D.  
 Millar, J.A.  
 Miller, J.P.  
 Millward, D.J.  
 Mimran, A.  
 Mohanty, P.K.  
 Mol, M.J.  
 Moore, G.  
 Moore, K.  
 Morgan, M.Y.  
 Morris, C.  
 Morris, J.  
 Morrison, J.  
 Motwani, J.G.  
  
 Naismith, D.J.  
 Navis, G.J.  
 Neary, R.H.  
 Nemer, M.  
 Nestel, P.  
 Newham, D.J.  
 Newton, G.  
 Ng, L.L.  
 Nicholls, M.G.  
 Nilsson, H.  
 Nisell, H.  
 Norman, R.I.  
 Novak, V.  
 Nussberger, J.  
  
 O'Brien, E.  
 O'Callaghan, C.  
 O'Connor, B.  
 Ohanian, J.  
 Olsen, N.V.  
 O'Morain, C.A.  
 O'Neill, G.  
 O'Rourke, M.F.  
 O'Saughnessy, K.  
 Ouchi, Y.  
 Owen, J.S.  
 Owen, O.E.  
  
 Pagani, M.  
 Palatini, P.  
 Pannier, B.  
 Parati, G.  
 Pare P.  
 Parfitt, V.  
 Parkes, D.  
 Parving, H.-H.  
  
 Patel, A.  
 Paterson, C.  
 Paul, S.  
 Pavli, P.  
 Pedersen, O.  
 Pencharz, P.  
 Perrella, M.  
 Piquette, C.  
 Pomfrett, C.J.D.  
 Por, J.N.  
 Poston, L.  
 Powell-Tuck, J.  
 Preedy, V.  
 Preuss, H.G.  
 Price, R.G.  
 Provoost, A.P.  
  
 Rabelink, A.  
 Rampton, D.S.  
 Reckelhoff, J.F.  
 Reeds, P.  
 Reid, J.  
 Rennie, M.J.  
 Rérat, A.  
 Rhodes, J.M.  
 Rhodes, P.  
 Rice-Evans, C.  
 Richard, V.  
 Riesen, W.F.  
 Riis Hansen, R.  
 Rippe, B.  
 Robbins, R.  
 Rodger, S.  
 Romero, J.C.  
 Ruddy, T.D.  
 Russell, D.  
 Russell, F.D.  
 Rutherford, O.  
 Ryder, S.  
  
 Sagnella, G.A.  
 Sainsbury, R.  
 Sands, J.M.  
 Saruta, T.  
 Saul, J.P.  
 Scherrer, U.  
 Schiffrin, E.L.  
 Schmieder, R.E.  
 Schofield, G.G.  
 Schuppan, D.  
 Schuyler, M.  
  
 Schwarzer, A.P.  
 Selby, W.  
 Sever, P.  
 Shenkin, A.  
 Sheron, N.  
 Shibayama, Y.  
 Shiojima, I.  
 Shiota, M.  
 Shore, A.  
 Silk, D.B.  
 Silverman, M.  
 Simmons, D.  
 Singer, D.R.J.  
 Skinner, S.L.  
 Smit, A.A.J.  
 Smyth, D.D.  
 Soutar, A.  
 Specchia, G.  
 Spurr, N.  
 Stalenhoeft, A.  
 Stamp, T.  
 Starr, J.M.  
 Stjernström, H.  
 Strauer, B.E.  
 Strumpe, K.O.  
 Svendsen, O.L.  
 Sugden, M.  
 Sundkvist, D.G.  
 Suzuki, H.  
  
 Takeda, K.  
 Takizawa, H.  
 Taskinen, M.-R.  
 Tattersfield, A.  
 Taubert, K.  
 Taylor, J.  
 Theodore, J.  
 Thien, Th.  
 Thompson, A.  
 Thompson, A.H.  
 Thorburn, A.  
 Thuraingham, R.  
 Tighe, R.  
 Tomlinson, D.  
 Tooke, J.E.  
 Toska, K.  
 Tunny, A.N.  
 Turner, A.N.  
  
 Vallance, P.  
 van de Borne, P.  
  
 van Lieshout, J.J.  
 Van Rij, A.  
 van Zwieten, P.A.  
 Vanoli, E.  
 Vassart, G.  
 Vassort, G.  
 Vaz, M.  
 Verbolis, J.G.  
 Vetter, H.  
 Vos, P.  
 Vyas, H.  
  
 Wagenmakers, A.  
 Wahren, J.  
 Wallberg-  
   Henrikson, H.  
 Walker, R.  
 Soutar, A.  
 Ward, S.A.  
 Wardland, A.J.  
 Warren, P.M.  
 Wastell, H.J.  
 Watson, A.J.M.  
 Watt, P.  
 Weaver, L.  
 Webb, D.J.  
 Weinberger, M.  
 Weise, F.  
 Wernerman, J.  
 West, M.  
 Westerman, R.  
 White, H.  
 Whiting, P.  
 Whyte, M.  
 Wieling, W.  
 Wilcox, J.N.  
 Winocour, P.  
 Wintour-Coghlan,  
   M.  
 Winwood, P.J.  
 Woodside, B.  
  
 Yanagisawa, M.  
 Yandle, T.  
 Yeaman, S.J.  
 Yin, J.A.L.  
 Young, V.  
  
 Zhou, J.  
 Zidek, W.  
 Zimmerman, G.  
 Zinman, B.



- Goldstein, D. 233–239  
 González, A. 365–369, 771  
 Goodlad, R.A. 503–507  
 Granger, J.P. 497–502  
 Green, C.J. 51–58  
 Grey, C. 307–312  
 Griffin, G.E. 241–245  
 Grimble, R.F. 121–130  
 Gusmaroli, R. 219–223  
 Gustafsson, F. 621–626
- Haefeli, W.E. 79–86  
 Hafen, G. 347–351  
 Hansen, J.M. 489–496  
 Harrington, D. 391–398  
 Hart, G. 459–466  
 Heagerty, A.M. 739–743  
 Heude, E. 45–50  
 Hider, R. 633–638  
 Higgins, K.S. 617–620  
 Hillis, G.S. 639–650  
 Hjemdahl, P. 225–231  
 Hodgson, H.J. 329–335  
 Holton, J. 219–223  
 Hong, C.Y. 601–606  
 Hoskins, P.R. 17–21  
 Houben, A.J.H.M. 163–168  
 Huang, Y.-T. 601–606  
 Huang, Y.W. 93–98  
 Hughes, J.M.B. 329–335  
 Humphreys, S.M. 425–430, 679–683  
 Hundal, H.S. 591–599  
 Hutton, I. 739–743
- Idone, G. 385–389  
 Imholz, B.P.M. 193–200  
 Ishikawa, T. 755–761  
 Ishimitsu, T. 293–298
- Jackson, A.A. 607–615  
 Jackson, P.R. 399–413, 617–620, 773–774  
 James, M.A. 59–64  
 Janssen, M.C.H. 483–488  
 Jebb, S.A. 241–245  
 Jellema, W.T. 193–200  
 Jennings, G. 23–28, 241–245  
 Ji, M.R. 93–98  
 Johnston, N.R. 177–185  
 Jones, D.E.J. 551–558  
 Jones, P.H. 141–146
- Kakkar, R. 441–448  
 Kalechman, Y. 519–523  
 Kalra, J. 441–448  
 Kamen, P.W. 201–208  
 Kang, J.Y. 252–254
- Kangawa, K. 293–298  
 Karet, F.E. 267–273  
 Kay, R.L.C. 35–43  
 Kearney, M.T. 415–423  
 Kemp, G.J. 691–702  
 Kersten, A.H. 475–481  
 Kime, R. 633–638  
 Kirchner, K.A. 497–502  
 Kirstetter, P. 29–33  
 Kitamura, K. 293–298  
 Knudsen, J.H. 621–626  
 Konje, J.C. 169–175  
 Korten, E.C.C.M. 163–168  
 Kosoglou, T. 283–291  
 Kraskiewicz, M. 617–620  
 Krum, H. 201–208  
 Kurashina, T. 497–502
- Lahiri, A. 51–58  
 Lainchbury, J.G. 3–16, 525  
 Langley-Evans, S.C. 607–615  
 Laux-End, R. 347–351  
 Lawson, K. 651–663  
 Lebrec, D. 29–33  
 Lee, K.O. 254–256  
 Lee, M.R. 177–185  
 Leijssen, D.P.C. 665–677  
 Lérique, B. 209–212  
 Lewins, P. 87–92  
 Lewis, L. 3–16, 525  
 Leyssac, P.P. 489–496  
 Li, X.C. 147–154  
 Li Kam Wa, T.C. 177–185  
 Ligtenberg, J.J.M. 583–589  
 Lin, H.-C. 601–606  
 Links, T.P. 583–589  
 Liu, C. 93–98  
 Liu, T.-B. 601–606  
 Lo, T.W.C. 575–582  
 Lockhart, A. 319–327  
 Loehrer, F.M.T. 79–86  
 López, M.A. 365–369, 771  
 Lotan, R. 233–239  
 Lucarelli, G. 719–723  
 Lutterman, J.A. 559–565
- Macallan, D.C. 241–245  
 Macdonald, I.A. 415–423, 425–430  
 MacLeod, A.M. 639–650  
 Macpherson, M.B. 685–690  
 Mantha, S.V. 441–448  
 Marangella, M. 313–318  
 Marigliano, V. 385–389  
 Marteau, C. 209–212  
 Martínez, C. 733–738  
 Matsuo, H. 293–298
- Matsuoka, H. 293–298  
 May, H. 307–312  
 Mazzanti, L. 719–723  
 Mazzuero, G. 391–398  
 McGuigan, J.A.S. 347–351  
 McKie, A.T. 213–218  
 McLellan, A.C. 575–582  
 McNally, P.G. 59–64  
 McNurlan, M.A. 99–106  
 Menegatti, M. 219–223  
 Menys, V.C. 87–92  
 Michael, C.A. 711–718  
 Miglioli, M. 219–223  
 Mikhail, M. 187–191  
 Millar, J.A. 567–573  
 Milton, J.D. 359–364  
 Minami, J.-I. 293–298  
 Mione, V. 275–281  
 Miranda, F. 219–223  
 Mitchell, T.L. 113–118  
 Moreau, R. 29–33  
 Mormino, P. 275–281  
 Morrice, P.C. 107–111  
 Morris, A.D. 65–71  
 Morris, R.J. 679–683  
 Morton, J.J. 169–175  
 Murphy, G.M. 509–512  
 Murphy, S. 307–312
- Netten, P.M. 559–565  
 Newlands, G.F.J. 319–327  
 Ng, S.C. 254–256  
 Nicholls, M.G. 3–16, 283–291, 525  
 Nicolosi, G. 275–281  
 Nishikimi, T. 293–298  
 Nishino, T. 755–761  
 Noble, M.I.M. 87–92  
 Nocco, M.L. 385–389  
 Norman, R.I. 467–474  
 Northover, B.J. 745–754  
 Nosadini, R. 703–710
- O'Brien, S.F. 567–573  
 O'Halloran, K.D. 337–345  
 O'Kelly, J. 353–358  
 Osborne, J. 685–690  
 Oh, V.M.S. 247, 261–264  
 Oldroyd, B. 763–769  
 Olsen, N.V. 489–496  
 Ortíz, M.C. 733–738
- Palatini, P. 275–281  
 Panerai, R. 59–64  
 Parker, S.G. 467–474  
 Patel, A.R. 497–502  
 Paton, N.I.J. 241–245  
 Payne, J.N. 399–413, 773–774

- Pearson, M.G. 513–518  
 Peeters, L.L.H. 163–168  
 Peheim, E. 347–351  
 Pereira, S.P. 509–512  
 Pessina, A.C. 275–281  
 Peters, A.M. 329–335  
 Peters, T.J. 213–218  
 Petrarulo, M. 313–318  
 Petrie, J.R. 65–71  
 Pickin, D.M. 399–413, 773–774  
 Piepoli, M. 391–398  
 Playford, R.J. 503–507  
 Plusa, S.M. 371–374  
 Poaty, V. 319–327  
 Ponikowski, P. 391–398  
 Posner, B.A. 527–537  
 Potter, J.F. 59–64  
 Powers, H. 633–638  
 Prasad, K. 441–448  
 Primrose, J.N. 371–374  
 Proudfoot, J.M. 449–458  
 Puddey, I.B. 449–458  
 Pusey, C.D. 329–335  
  
 Qureshi, I.A. 93–98  
  
 Rabini, R.A. 719–723  
 Radda, G.K. 691–702  
 Rademaker, M.T. 283–291  
 Rae, C. 353–358  
 Raja, S.N. 627–631  
 Ramsay, L.E. 399–413, 617–620,  
 773–774  
 Ravel, U. 51–58  
 Recchi, D. 385–389  
 Reitsma, W.D. 583–589  
 Ren, E.C. 256–258  
 Rennie, M.J. 591–599  
 Rhodes, J.M. 359–364  
 Ricci, C. 219–223  
 Richards, A.M. 3–16, 283–291,  
 525  
 Rickhuss, P.K. 591–599  
 Ritchie, J. 711–718  
 Rooyackers, O.E. 475–481  
 Rouleau, A. 319–327  
 Rovera, L. 313–318  
 Ryan, J. 23–28  
  
 Sadek, S.K. 359–364  
 Samra, J.S. 425–430, 679–683  
 Samson, R.R. 177–185  
 San Román, J.I. 365–369, 771  
 Sanderson, A.L. 691–702  
 Sanderson, J.E. 35–43  
 Savill, J. 329–335  
  
 Schibler, A. 347–351  
 Schwartz, J.-C. 319–327  
 Scuteri, A. 385–389  
 Selldén, E. 431–439  
 Shan, Y.-F. 93–98  
 Shehata, R. 187–191  
 Sherman, R.C. 607–615  
 Shirley, D.G. 299–305  
 Shurey, C. 51–58  
 Silvester, W. 567–573  
 Silviani, V. 209–212  
 Simpson, E.J. 425–430  
 Simpson, R.J. 213–218  
 Skipworth, S. 73–77  
 Sladen, G.E. 509–512  
 Sluiter, W.J. 583–589  
 Smit, A.J. 583–589  
 Smith, C.C.T. 87–92  
 Smith, M.A. 763–769  
 Sönksen, P.H. 575–582  
 Soupison, T. 29–33  
 Sredni, B. 519–523  
 Staffolani, R. 719–723  
 Stolte, J. 131–139  
 Stonebridge, P.A. 17–21  
 Stritoni, P. 275–281  
 Struijker-Boudier,  
 H.A.J. 131–139  
 Stubbs, T.A. 415–423  
 Sugimori, K. 755–761  
 Summers, L.K.M. 679–683  
 Swales, J.D. 59–64  
  
 Tan, C.-C. 258–260  
 Tavakoli, R. 319–327  
 Tay, A. 264–266  
 Taylor, B.A. 359–364  
 Taylor, D.J. 169–175  
 Taylor, E.A. 261–264  
 Tedgui, A. 29–33  
 Thien, Th. 483–488, 559–565  
 Thompson, C.H. 691–702  
 Thorell, A. 99–106  
 Thornalley, P.J. 575–582  
 Thorniley, M.S. 51–58  
 Thurston, H. 59–64  
 Tjäder, I. 99–106  
 Toft, J. 621–626  
 Tomlinson, B. 35–43  
 Tonkin, A.M. 201–208  
 Trevisan, M. 703–710  
 Trevisan, R. 703–710  
 Truttmann, A.C. 347–351  
 Tsai, J.-F. 601–606  
 Turney, J.H. 763–769  
  
 Tweddel, A. 739–743  
  
 Ueda, S. 65–71  
 Ul Haq, I. 399–413, 773–774  
 Unwin, R.J. 299–305  
 Urbano-Márquez, A. 155–161  
 Ussov, W.Yu 329–335  
  
 Vaira, D. 219–223  
 Van Asten, W.N.J.C. 483–488  
 Van Beek, E. 163–168  
 Van der Kolk, L.E. 583–589  
 Van Es, P.N. 163–168  
 Van Essen, H. 131–139  
 Van Goudoever, J. 193–200  
 Van Haften, T.W. 583–589  
 Van Lieshout, J.J. 193–200  
 Visentin, P. 275–281  
 Vitale, C. 313–318  
 Volterrani, M. 391–398  
  
 Wagenmakers, A.J.M. 475–481  
 Wallace, W.A. 685–690  
 Wallén, N.H. 225–231  
 Walter, S.J. 299–305  
 Walters, B.N. 711–718  
 Watt, P.W. 591–599  
 Watts, G.F. 567–573  
 Webster, N. 371–374  
 Welham, S.J.M. 607–615  
 Wernerman, J. 99–106  
 Wesseling, K.H. 193–200  
 Weston, P.J. 59–64  
 Whitaker, R.P. 467–474  
 Widdop, R.E. 147–154  
 Willekes, C. 163–168  
 Winearls, C.G. 353–358  
 Wollersheim, H. 483–488,  
 559–565  
 Woo, K.S. 35–43  
 Woodrow, G. 763–769  
 Wu, P.K. 627–631  
  
 Xie, Y. 93–98  
  
 Yang, M.C.-M. 601–606  
 Yang, S. 29–33  
 Yeo, W.W. 399–413, 617–620,  
 773–774  
 Yeung, D.T.K. 35–43  
 Yeung, L.Y.C. 35–43  
 Yong, W. 633–638  
 Youdim, M. 233–239  
 Young, R. 307–312  
 Yu, L.-G. 359–364  
  
 Zolese, G. 719–723

# Volume 91

## SUBJECT INDEX

First and last page numbers of papers to which entries refer are given. Page numbers marked with an asterisk refer to Reviews.

- Accidental falls  
oestrogen replacement therapy 685–690
- Acetylcholine  
endothelium, Syndrome X 739–743  
nitric oxide, liver cirrhosis 733–738
- Action potential  
cardiac muscle, nutritional iron deficiency 233–239
- Activation energy  
Na<sup>+</sup>, K<sup>+</sup>-ATPase, gestational hypertension 719–723
- S-Adenosylhomocysteine  
metabolism 79–86
- S-Adenosylmethionine  
metabolism 79–86
- Adenylate cyclase  
G-proteins, signal transduction 527–537\*
- Adipose tissue  
microdialysis, catecholamines 425–430
- Adipose tissue blood flow  
body mass index 679–683
- Adrenaline  
lymphocytes, cyclic AMP 612–626
- $\alpha$ -Adrenergic receptors  
skin, reflex sympathetic dystrophy 73–77
- Adrenergic  $\beta_2$ -receptors  
lymphocytes, noradrenaline 621–626
- $\alpha$ -Adrenoceptor antagonist  
thermoregulation 627–631
- Adrenomedullin  
G-protein-linked receptors, cyclic AMP 3–16\*, 525  
salt, essential hypertension 293–298
- Ageing  
lymphocytes, cyclic AMP 621–626
- Alcohol  
pancreatitis-associated protein messenger RNA 213–218
- Alcoholic cirrhosis  
nitric oxide 23–28
- Aliphatic amines  
renal failure, choline transport 353–358
- Alkalosis  
hyperventilation, magnesium 347–351
- Almitrine  
ventilation, muscle activity 337–345
- Ambulatory blood pressure  
left ventricular function, hypertension 275–281
- Ambulatory monitoring  
blood pressure, sleep 45–50
- Amino acids  
inflammation, cytokines 121–130\*  
metabolism, vascular disease 79–86  
renal transplant recipients, cyclosporin A 489–496  
thermogenesis, anaesthesia 431–439
- Aminoglycosides  
nephrotoxicity, non-steroidal anti-inflammatory drugs 187–191
- Amylase release  
pancreatitis 365–369, 771
- Anaesthesia  
amino acids, thermogenesis 431–439
- Angina  
cholesterol, lipids 399–413, 773–774
- Angiotensin II  
microalbuminuria, non-insulin-dependent diabetes 703–710
- Angiotensin type 1 receptor antagonists  
renal vasodilatation, spontaneously hypertensive rats 147–154
- Angiotensin-converting enzyme  
genetic polymorphism, bradykinin 617–620
- Antioxidant enzyme  
vitamin E, smoking 107–111
- Antioxidants  
inflammation, cytokines 121–130\*
- Antisense oligodeoxynucleotides  
multidrug resistance 93–98
- Aorta  
nitric oxide, liver cirrhosis 733–738
- Arachidonic acid  
phospholipids, Crohn's disease 509–512
- Arterialization  
insulin sensitivity, forearm blood flow 65–71
- Artery  
morphology, syndrome X 739–743
- ATP synthesis

- exercise, obesity 691–702
- ATP-sensitive potassium channels
  - potassium channel openers 651–663\*
- Atrial natriuretic peptide
  - neutral endopeptidase, ventricular pacing 283–291
  - salt, essential hypertension 293–298
  - potassium channel openers 651–663\*
- Autoantigen
  - T-lymphocytes, biliary cirrhosis 551–558
- Autoimmunity
  - T-lymphocytes, biliary cirrhosis 551–558
- Autonomic function
  - baroreflex sensitivity, insulin-dependent diabetes mellitus 59–64
- Autonomic nervous system
  - heart failure, heart rate variability 391–398
  - heart failure, spectral power 35–43
  - Poincaré plot, heart rate variability 201–208
- Autoregulation
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase, ouabain 497–502
- Balance
  - oestrogen replacement therapy 685–690
- Baroreflex sensitivity
  - autonomic function, insulin-dependent diabetes mellitus 59–64
- Bicarbonate-urea method
  - energy expenditure, human immunodeficiency virus infection 241–245
- Biliary cirrhosis
  - autoimmunity, T-lymphocytes 551–558
- Blastocyst transfer
  - human embryos 248–249
- Bleeding time
  - inhaled nitric oxide 225–231
- Blood flow
  - vascular disease, ultrasound 17–21
- Blood pressure
  - ambulatory monitoring, sleep 45–50
  - stroke volume, syncope 193–200
- Blood temperature
  - amino acids, anaesthesia 431–439
- Blood transfusion
  - T-helper 2 cytokines, transforming growth factor 519–523
- Body composition
  - chronic kidney failure 763–769
- Body mass index
  - adipose tissue blood flow 679–683
- Bone mineral density
  - postmenopausal women 307–312
- Bone resorption
  - calcium nephrolithiasis, mineral water 313–318
- Bradykinin
  - angiotensin-converting enzyme, genetic polymorphism 617–620
  - endothelium, Syndrome X 739–743
- Brain
  - oxidative metabolism, hypertension 539–550
- Brain natriuretic peptide
  - neutral endopeptidase, ventricular pacing 283–291
- Breath-holding time
  - control of breathing, dyspnoea 755–761
- Bronchial hyper-responsiveness
  - lung transplantation, mast cells 319–327
- Bumetanide
  - Na<sup>+</sup>/K<sup>+</sup>/2Cl<sup>-</sup> co-transport 725–731
- Caerulein
  - pancreatitis, intracellular calcium 365–369, 771
- Caffeic acid
  - lipoprotein oxidation, wine 449–458
- Calcium
  - alkalosis, hyperventilation 347–351
- Calcium antagonist
  - oxidants 459–466
  - urinary bladder 467–474
- Calcium nephrolithiasis
  - mineral water 313–318
- Calcium oxalate
  - urine state of saturation, calcium nephrolithiasis 313–318
- Calcium phosphate
  - urine state of saturation, calcium nephrolithiasis 313–318
- Calf muscle pump function
  - validation, chronic venous insufficiency 483–488
- Cancer
  - eicosanoid production 264–266
  - Helicobacter pylori*, serology 219–223
- Capillaroscopy
  - microcirculation 131–139\*
- Capsaicin
  - chilli, stomach 252–254
- Carbon dioxide
  - inspiratory effort sensation, sustained loading 513–518
  - recovery 665–677
- Cardiac muscle
  - nutritional iron deficiency 233–239
- Cardiac oxygenation
  - ischaemia, spectrophotometry 51–58
- Catalase
  - diabetes 441–448
- Catecholamines
  - adipose tissue, microdialysis 425–430
- Cell adhesion
  - epidermal stem cells, integrins 141–146\*



- Cell adhesion molecules  
 integrins 639–650\*
- Cell differentiation  
 epidermal stem cells 141–146\*
- Cell division  
 epidermal stem cells 141–146\*
- Cell proliferation  
 epidermal growth factor, gastrointestinal tract 503–507
- Cerebral blood supply  
 hypertension 539–550
- Cerebrovascular disease  
 hypertension 539–550
- Cervical carcinoma  
 DNA testing, papillomavirus 250–252
- Chemiluminescence  
 oxidants, calcium antagonist 459–466
- Chemoreceptors  
 heart failure, heart rate variability 391–398
- Chilli  
 capsaicin, stomach 252–254
- Cholecystokinin 8  
 intracellular calcium, pancreatitis 365–369, 771
- Cholesterol  
 coronary heart disease, lipids 399–413, 773–774
- Cholesterol metabolism  
 creatine supplementation 113–118
- Choline transport  
 renal failure, haemodialysis 353–358
- Chronic kidney failure  
 body composition 763–769
- Chronic venous insufficiency  
 calf muscle pump function, validation 483–488
- Cirrhosis  
 tumour necrosis factor- $\alpha$ , pentoxifylline 29–33
- Clinical research  
 progress in Singapore 247–266
- Colonic mucin  
 corticosteroids, nicotine 359–364
- Contractile response  
 portal hypertension, octreotide 601–606
- Contractility  
 cardiac muscle, nutritional iron deficiency 233–239
- Control of breathing  
 breath-holding time, dyspnoea 755–761
- Coronary heart disease  
 cholesterol, lipids 399–413, 773–774
- Coronary risk  
 lipids 399–413, 773–774
- Corticosteroids  
 mucin, colon 359–364
- Creatine supplementation  
 lipid metabolism 113–118
- Crohn's disease  
 fatty acids, phospholipids 509–512
- Cromakalim  
 therapeutic targets 651–663\*
- CV-11974  
 renal vasodilatation, spontaneously hypertensive rats 147–154
- Cyclic AMP  
 G-protein-linked receptors, adrenomedullin 3–16\*, 525  
 G-proteins, signal transduction 527–537\*  
 lymphocytes, noradrenaline 621–626
- Cyclic GMP  
 inhaled nitric oxide 225–231  
 neutral endopeptidase, ventricular pacing 283–291
- Cyclosporin A  
 renal transplant recipients 489–496
- Cytochrome *aa<sub>3</sub>*  
 ischaemia, spectrophotometry 51–58
- Cytochrome *c* oxidase  
 muscle wasting, zymosan 475–481
- Cytokine  
 pentoxifylline, cirrhosis 29–33
- Cytokines  
 nutrients, inflammation 121–130\*
- Densitometry  
 chronic kidney failure 763–769
- Dermis  
 $\alpha$ -adrenergic receptors, reflex sympathetic dystrophy 73–77
- Diabetes  
 endothelium, dyslipidaemia 567–573  
 microcirculation 131–139\*  
 oxidative stress 441–448  
 oxidative stress, glyoxylase 575–582
- Diabetes mellitus  
 baroreflex sensitivity, autonomic function 59–64
- Diabetic foot  
 skin microcirculation, neuropathy 559–565
- Diaphragm  
 almitrine, electromyography 337–345
- Diclofenac sodium  
 nephrotoxicity, gentamicin 187–191
- DNA testing  
 papillomavirus, cervical carcinoma 250–252
- Dopamine  
 5-hydroxytryptamine, renal sodium excretion 177–185  
 renal transplant recipients, cyclosporin A 489–496
- Dyslipidaemia  
 diabetes, endothelium 567–573
- Dyspnoea

- control of breathing, breath-holding time 755–761
- Echocardiography
  - left ventricular function, hypertension 275–281
- EEG arousal
  - blood pressure, sleep 45–50
- Eicosanoid production
  - hypertension, cancer 264–266
- Electromyography
  - muscle activity, almitrine 337–345
- Embryos
  - blastocyst transfer, stem cell production 248–249
- Endothelin
  - salt, essential hypertension 293–298
- Endothelin peptides
  - human kidney 267–273\*
- Endothelin receptors
  - human kidney 267–273\*
- Endothelium
  - diabetes, dyslipidaemia 567–573
  - phenylephrine, liver cirrhosis 733–738
  - Syndrome X 739–743
- Energy expenditure
  - bicarbonate-urea method, human immunodeficiency virus infection 241–245
- Epidermal growth factor
  - cell proliferation, gastrointestinal tract 503–507
- Epidermal stem cells
  - cell adhesion, integrins 141–146\*
- Epidermis
  - $\alpha$ -adrenergic receptors, reflex sympathetic dystrophy 73–77
- Epilepsy
  - genetic analysis 264–266
- Erythropoietin dysregulation
  - renal failure 258–260
- Essential hypertension
  - salt, adrenomedullin 293–298
- Exercise
  - ATP synthesis, obesity 691–702
- EXP 3174
  - renal vasodilatation, spontaneously hypertensive rats 147–154
- Familial hypokalaemic periodic paralysis
  - sodium pump 261–264
- Fatiguability
  - cytochrome *c* oxidase, zymosan 475–481
- Fatigue
  - inspiratory effort sensation, CO<sub>2</sub> responsiveness 513–518
- Fats
  - inflammation, cytokines 121–130\*
- Fatty acids
  - phospholipids, Crohn's disease 509–512
- Fetal programming
  - maternal nutrition, hypertension 607–615
- Fetuses
  - gestational age, kidney 169–175
- Fibroblasts
  - intracellular pH, free cytosolic calcium 703–710
- Flooding dose
  - muscle wasting, zymosan 475–481
- Fluidity
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase, gestational hypertension 719–723
- Fluoxetine
  - 5-hydroxytryptamine, platelet aggregation 87–92
- Forearm blood flow
  - arterialization 65–71
  - menstrual cycle 163–168
- Free cytosolic calcium
  - microalbuminuria, non-insulin-dependent diabetes 703–710
- Furosemide
  - sodium depletion 299–305
- Gallbladder
  - sodium/hydrogen exchanger, sodium absorption 209–212
- Gastrointestinal tract
  - cell proliferation, epidermal growth factor 503–507
- Gene expression
  - pancreatitis-associated protein, mouse intestine 213–218
- Genetic analysis
  - research in Singapore 264–266
- Genetic polymorphism
  - angiotensin-converting enzyme, bradykinin 617–620
- Geniohyoid
  - almitrine, electromyography 337–345
- Gentamicin
  - nephrotoxicity, non-steroidal anti-inflammatory drugs 187–191
- Gestational age
  - renin, kidney 169–175
- Gestational hypertension
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase 719–723
- Glomerular filtration rate
  - renal transplant recipients, cyclosporin A 489–496
- Glomerulonephritis
  - IgA nephropathy 258–260
- Glucocorticoids
  - fetal programming, hypertension 607–615
- Glucose transport
  - sarcolemma, insulin 591–599

- Gludopa  
   renal metabolism 177–185  
 $\gamma$ -L-Glutamyl-5-hydroxy-L-tryptophan  
   renal metabolism 177–185  
 Glutathione  
   antioxidants, cytokines 121–130\*  
 Glutathione peroxidase  
   diabetes 441–448  
 Glycogenolysis  
   exercise, obesity 691–702  
 Glyoxal  
   diabetes, oxidative stress 575–582  
 Glyoxylase  
   diabetes, oxidative stress 575–582  
 G-protein-linked receptors  
   adrenomedullin, cyclic AMP 3–16\*, 525  
 G-proteins  
   signal transduction, adenylate cyclase 527–537\*  
 Granulocyte activation  
   inflammatory disease 329–335  
 Granulocyte pool  
    $^{111}\text{In}$ – $^{99\text{m}}\text{Tc}$ -labelled granulocytes, inflammatory  
   disease 329–335  
 Grape juice  
   phenolic compounds, lipoprotein  
   oxidation 449–458  
 Growth hormone  
   male infertility 254–256  
 Haemodialysis  
   blood transfusion 519–523  
   renal failure, choline transport 353–358  
 Haemodynamics  
   ischaemia, spectrophotometry 51–58  
   meal ingestion, insulin 415–423  
   neutral endopeptidase, ventricular  
   pacing 283–291  
   pentoxifylline, cirrhosis 29–33  
 Heart failure  
   adrenomedullin 3–16\*, 525  
   autonomic nervous system, spectral power 35–43  
   heart rate variability, autonomic nervous  
   system 391–398  
 Heart rate  
   blood pressure, sleep 45–50  
 Heart rate variability  
   autonomic nervous system, spectral power 35–43  
   heart failure, autonomic nervous  
   system 391–398  
   Poincaré plot, parasympathetic nervous  
   system 201–208  
*Helicobacter pylori*  
   serology, cancer 219–223  
 High-performance liquid chromatography  
   non-transferrin-bound iron, preterm  
   babies 633–638  
 Hip  
   bone-mineral density, postmenopausal  
   women 307–312  
 Homocysteine  
   metabolism 79–86  
 Hormone replacement therapy  
   bone mineral density, postmenopausal  
   women 307–312  
 Human immunodeficiency virus infection  
   energy expenditure, bicarbonate-urea  
   method 241–245  
 Human leucocyte antigens  
   nasopharyngeal carcinoma 256–258  
 5-Hydroxytryptamine  
   dopamine, renal sodium excretion 177–185  
   platelet aggregation, fluoxetine 87–92  
 Hyperglycaemia  
   insulin release, muscle strength 583–589  
 Hyperinsulinaemic euglycaemic clamp  
   insulin sensitivity, arterialization 65–71  
 Hypertension  
   adrenomedullin 3–16\*, 525  
   contractile response, octreotide 601–606  
   eicosanoid production 264–266  
   fetal programming, maternal nutrition 607–615  
   left ventricular function,  
   echocardiography 275–281  
   microcirculation 131–139\*  
    $\text{Na}^+$ ,  $\text{K}^+$ -ATPase, ouabain 497–502  
   oxidative metabolism, brain 539–550  
   renin, gestational age 169–175  
   salt, adrenomedullin 293–298  
   salt sensitivity 155–161  
 Hyperventilation  
   alkalosis, magnesium 347–351  
 Hypokalaemic periodic paralysis  
   insulin release 583–589  
   sodium pump 261–264  
 Hypometabolism  
   amino acids, anaesthesia 431–439  
 Hypotension  
   stroke volume, syncope 193–200  
 Hypothermia  
    $\alpha$ -adrenoceptor antagonist 627–631  
   amino acids, anaesthesia 431–439  
 Hypothermic preservation  
   rat heart, protein kinase C inhibitors 745–754  
 Hypoxia  
   pancreatitis-associated protein  
   messenger RNA 213–218  
 Ibuprofen  
   nephrotoxicity, gentamicin 187–191  
 IgA nephropathy

- primary glomerulonephritis 258–260
- Immune complex disease
  - inflammation mediators, nitric oxide 375–384\*
- Immunity
  - nitric oxide 375–384\*
- Immunostaining
  - mast cells, lung transplantation 319–327
- <sup>111</sup>In–<sup>99m</sup>Tc-labelled granulocytes
  - lung granulocyte pool, inflammatory disease 329–335
- Infertility
  - growth hormone 254–256
- Inflammation
  - nutrients, cytokines 121–130\*
- Inflammation mediators
  - nitric oxide, immune complex disease 375–384\*
- Inflammatory disease
  - granulocyte activation, lung granulocyte pool 329–335
- Inhaled nitric oxide
  - platelet function 225–231
- Innervation
  - lung transplantation 319–327
- Inspiratory effort sensation
  - CO<sub>2</sub> responsiveness, sustained loading 513–518
- Insulin
  - adipose tissue blood flow 679–683
  - glucose transport, sarcolemma 591–599
  - microalbuminuria, non-insulin-dependent diabetes 703–710
  - regional haemodynamics, meal ingestion 415–423
- Insulin release
  - hypokalaemic periodic paralysis 583–589
- Insulin sensitivity
  - arterialization 65–71
- Insulin-dependent diabetes mellitus
  - baroreflex sensitivity, autonomic function 59–64
- Integrins
  - cell adhesion, epidermal stem cells 141–146\*
  - cell adhesion molecules 639–650\*
- Interleukin
  - blood transfusion 519–523
  - nutrients, inflammation 121–130\*
- Intracellular calcium
  - pancreatitis 365–369, 771
- Intracellular pH
  - microalbuminuria, non-insulin-dependent diabetes 703–710
- Intravenous nutrition
  - epidermal growth factor 503–507
- Intravital microscopy
  - microcirculation 131–139\*
- Inulin clearance
  - menstrual cycle 163–168
- Iron deficiency
  - pancreatitis-associated protein messenger RNA 213–218
- Iron overload
  - pancreatitis-associated protein messenger RNA 213–218
- Ischaemia
  - cardiac oxygenation, spectrophotometry 51–58
  - oxidants, calcium antagonist 459–466
- Iso-electric focusing
  - serology, cancer 219–223
- Iso-prostane
  - lipid peroxidation, pregnancy 711–718
- Keratinocytes
  - epidermal stem cells 141–146\*
- Kidney
  - endothelins 267–273\*
  - fetal programming, hypertension 607–615
  - renin, gestational age 169–175
- Labelled carbon dioxide
  - recovery 665–77
- Left ventricular function
  - echocardiography, hypertension 275–281
- Lipid
  - neutrophils, sepsis 371–374
- Lipid metabolism
  - creatinine supplementation 113–118
- Lipid peroxidation
  - diabetes 441–448
  - pre-eclampsia, pregnancy 711–718
  - vitamin E, smoking 107–111
- Lipids
  - coronary heart disease, cholesterol 399–413, 773–774
- Lipoprotein oxidation
  - phenolic compounds, wine 449–458
- Lithium clearance
  - renal transplant recipients, cyclosporin A 489–496
- Liver
  - autoimmunity, T-lymphocytes 551–558
- Liver cirrhosis
  - phenylephrine, nitric oxide 733–738
- Loop of Henle
  - sodium depletion, frusemide 299–305
- Loss of label
  - carbon dioxide 665–677
- Lung granulocyte pool
  - <sup>111</sup>In–<sup>99m</sup>Tc-labelled granulocytes, inflammatory disease 329–335
- Lung transplantation
  - mast cells, bronchial hyper-responsiveness 319–327
- Lymphocytes
  - cyclic AMP, noradrenaline 621–626
  - protein synthesis, stable isotope 99–106

- Magnesium  
alkalosis, hyperventilation 347–351
- Magnetic resonance spectroscopy  
ATP synthesis 691–702
- Male infertility  
growth hormone 254–256
- Mast cells  
lung transplantation, bronchial  
hyper-responsiveness 319–327
- Maternal nutrition  
fetal programming, hypertension 607–615
- Meal ingestion  
regional haemodynamics, insulin 415–423
- Mean arterial pressure  
metabolic risk factors, sex 385–389
- Membrane  
sarcolemma, glucose transport 591–599
- Membrane current  
cardiac muscle, nutritional iron  
deficiency 233–239
- Menstrual cycle  
sex hormones, vascular relaxation 163–168
- Mesenteric artery  
contractile response, octreotide 601–606
- Messenger RNA  
pancreatitis-associated protein, mouse  
intestine 213–218
- Metabolic risk factors  
blood pressure, sex 385–389
- Metabolism  
amino acids, vascular disease 79–86  
thermoregulation,  $\alpha$ -adrenoceptor  
antagonist 627–631
- Methodology  
labelled carbon dioxide, recovery 665–677
- Methylglyoxal  
diabetes, oxidative stress 575–582
- 5-Methyltetrahydrofolate  
metabolism 79–86
- Microalbuminuria  
intracellular pH, free cytosolic calcium 703–710
- Microcirculation  
cardiovascular disease 131–139\*  
diabetic foot, neuropathy 559–565
- Microdialysis  
adipose tissue, catecholamines 425–430
- Microperfusion  
loop of Henle, frusemide 299–305
- Micropuncture  
sodium depletion, frusemide 299–305
- Mineral water  
calcium nephrolithiasis 313–318
- Mitochondria  
ischaemia, spectrophotometry 51–58
- Morphology  
artery, Syndrome X 739–743
- Mouse intestine  
pancreatitis-associated protein,  
messenger RNA 213–218
- Mucin  
corticosteroids, nicotine 359–364
- Multidrug resistance  
antisense oligodeoxynucleotides 93–98
- Muscle  
oestrogen replacement therapy 685–690
- Muscle metabolism  
exercise, obesity 691–702
- Muscle strength  
hypokalaemic periodic paralysis 583–589
- Muscle wasting  
cytochrome *c* oxidase, zymosan 475–481
- Myocardial infarction  
cholesterol, lipids 399–413, 773–774
- $\text{Na}^+/\text{K}^+/\text{2Cl}^-$  co-transport  
platelets 725–731
- $\text{Na}^+$ ,  $\text{K}^+$ -ATPase  
gestational hypertension 719–723  
ouabain, hypertension 497–502
- Nasopharyngeal carcinoma  
human leucocyte antigens 256–258
- Natriuresis  
adrenomedullin 3–16\*, 525  
neutral endopeptidase, ventricular  
pacing 283–291
- Natriuretic peptides  
neutral endopeptidase, ventricular  
pacing 283–291
- Natural killer cells  
cyclic AMP, noradrenaline 621–626
- Nephrotoxicity  
gentamicin, non-steroidal anti-inflammatory  
drugs 187–191
- Neuropathy  
diabetic foot, skin microcirculation 559–565
- Neutral endopeptidase  
natriuretic peptides, ventricular pacing 283–291
- Neutrophils  
total parenteral nutrition, sepsis 371–374
- Nicotine  
mucin, colon 359–364
- Nitric oxide  
alcoholic cirrhosis 23–28  
diabetes, dyslipidaemia 567–573  
immunity 375–384\*  
phenylephrine, liver cirrhosis 733–738  
platelet function 225–231
- Nitric oxide synthase  
immunity 375–384\*
- Non-insulin-dependent diabetes  
intracellular pH, free cytosolic calcium 703–710
- Non-steroidal anti-inflammatory drugs  
nephrotoxicity, gentamicin 187–191
- Non-transferrin-bound iron  
high-performance liquid chromatography, preterm  
babies 633–638
- Noradrenaline  
lymphocytes, cyclic AMP 621–626

- salt sensitivity, hypertension 155–161
- Nutrients
  - inflammation, cytokines 121–130\*
- Nutritional iron deficiency
  - cardiac muscle 233–239
- Obesity
  - adipose tissue blood flow 679–683
  - ATP synthesis, exercise 691–702
- Octreotide
  - contractile response, portal hypertension 601–606
- Oestrogen replacement therapy
  - muscle, balance 685–690
- Ouabain
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase, hypertension 497–502
- Oxidants
  - calcium antagonist 459–466
- Oxidation
  - exercise, obesity 691–702
- Oxidative metabolism
  - brain, hypertension 539–550
- Oxidative stress
  - diabetes 441–448
  - diabetes, glyoxylase 575–582
- Oxygen consumption
  - oxidants, calcium antagonist 459–466
- Pancreatic acinar cells
  - intracellular calcium, pancreatitis 365–369, 771
- Pancreatitis
  - intracellular calcium 365–369, 771
- Pancreatitis-associated protein
  - messenger RNA, mouse intestine 213–218
- Papillomavirus
  - DNA testing, cervical carcinoma 250–252
- Para*-aminohippurate clearance
  - menstrual cycle 163–168
- Parasympathetic nervous system
  - Poincaré plot, heart rate variability 201–208
- Parenteral nutrition
  - epidermal growth factor 503–507
- Pentoxifylline
  - tumour necrosis factor- $\alpha$ , cirrhosis 29–33
- Phagocytosis
  - oxidants, calcium antagonist 459–466
- Phenolic compounds
  - lipoprotein oxidation, wine 449–458
- Phentolamine
  - thermoregulation 627–631
- Phenylephrine
  - contractile response, octreotide 601–606
  - nitric oxide, liver cirrhosis 733–738
- Phosphocreatine breakdown
  - exercise, obesity 691–702
- Phospholipids
  - fatty acids, Crohn's disease 509–512
- Physical activity
  - bicarbonate-urea method, human immunodeficiency virus infection 241–245
- Physical fitness
  - lymphocytes, cyclic AMP 621–626
- Pinacidil
  - insulin release, muscle strength 583–589
- Placenta
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase, gestational hypertension 719–723
- Platelet aggregation
  - 5-hydroxytryptamine, fluoxetine 87–92
  - inhaled nitric oxide 225–231
- Platelets
  - Na<sup>+</sup>/K<sup>+</sup>/2Cl<sup>-</sup> co-transport 725–731
- Plethysmography
  - calf muscle pump function 483–488
  - forearm blood flow, arterialization 65–71
- Poincaré plot
  - parasympathetic nervous system, heart rate variability 201–208
- Polymerase chain reaction
  - renal endothelins 267–273\*
- Portal hypertension
  - contractile response, octreotide 601–606
  - pentoxifylline, cirrhosis 29–33
- Post-menopause
  - oestrogen replacement therapy 685–690
- Post-thrombotic syndrome
  - calf muscle pump function, validation 483–488
- Postmenopausal women
  - bone mineral density 307–312
- Posture
  - spectral power 35–43
- Potassium
  - alkalosis, hyperventilation 347–351
- Potassium channel openers
  - therapeutic targets 651–663\*
- Pre-eclampsia
  - lipid peroxidation 711–718
- Pregnancy
  - lipid peroxidation 711–718
- Pressure natriuresis
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase, ouabain 497–502
- Preterm babies
  - non-transferrin-bound iron, high-performance liquid chromatography 633–638
- Primary prevention
  - coronary heart disease 399–413, 773–774
- Protease
  - mast cells, lung transplantation 319–327
- Protein kinase C inhibitors
  - rat heart, hypothermic preservation 745–754
- Protein synthesis
  - lymphocytes, stable isotope 99–106
- Pulse pressure
  - metabolic risk factors, sex 385–389
- Rat heart
  - hypothermic preservation, protein kinase C inhibitors 745–754
- Recovery

- labelled carbon dioxide 665–677
- Reflex sympathetic dystrophy
  - $\alpha$ -adrenergic receptors, skin 73–77
- Renal endothelins
  - quantitative polymerase chain reaction analysis 267–273\*
- Renal failure
  - choline transport, haemodialysis 353–358
  - erythropoietin dysregulation 258–260
- Renal plasma flow
  - renal transplant recipients, cyclosporin A 489–496
- Renal sodium excretion
  - dopamine, 5-hydroxytryptamine 177–185
- Renal transplant recipients
  - amino acids, dopamine 489–496
- Renal tubule
  - sodium depletion, frusemide 299–305
- Renal vasodilatation
  - angiotensin type 1 receptor antagonists, spontaneously hypertensive rats 147–154
- Renin
  - gestational age, kidney 169–175
- Renin–aldosterone axis
  - salt sensitivity, hypertension 155–161
- Resistance arteries
  - nitric oxide, alcoholic cirrhosis 23–28
- Respiratory frequency
  - spectral power 35–43
- Salt
  - adrenomedullin, essential hypertension 293–298
- Salt sensitivity
  - hypertension 155–161
- Sarcolemma
  - glucose transport, insulin 591–599
- Schizophrenia
  - genetic analysis 264–266
- Secondary prevention
  - coronary heart disease 399–413, 773–774
- Sepsis
  - neutrophils, total parenteral nutrition 371–374
- Serology
  - Helicobacter pylori*, cancer 219–223
- Sex
  - metabolic risk factors, blood pressure 385–389
- Sex hormones
  - menstrual cycle, vascular relaxation 163–168
- Signal transduction
  - G-proteins, adenylate cyclase 527–537\*
- Singapore
  - genetic studies 264–266
  - progress in clinical research 247–266
- Skeletal muscle blood flow
  - meal ingestion, insulin 415–423
- Skin
  - $\alpha$ -adrenergic receptors, reflex sympathetic dystrophy 73–77
- Skin fibroblasts
  - intracellular pH, free cytosolic calcium 703–710
- Skin microcirculation
  - diabetic foot, neuropathy 559–565
  - menstrual cycle 163–168
- Sleep
  - blood pressure, ambulatory monitoring 45–50
- Smoking
  - antioxidant enzyme, vitamin E 107–111
  - lymphocytes, cyclic AMP 621–626
- Smooth muscle
  - nitric oxide, alcoholic cirrhosis 23–28
- Sodium absorption
  - gallbladder, sodium/hydrogen exchanger 209–212
- Sodium clearance
  - renal transplant recipients, cyclosporin A 489–496
- Sodium depletion
  - frusemide 299–305
- Sodium/hydrogen exchanger
  - gallbladder, sodium absorption 209–212
- Sodium pump
  - hypokalaemic periodic muscle paralysis 261–264
- Spectral power
  - autonomic nervous system, heart failure 35–43
- Spectrophotometry
  - cardiac oxygenation, ischaemia 51–58
- Spermatogenesis
  - growth factors 254–256
- Spine
  - bone mineral density, postmenopausal women 307–312
- Spiral laminar flow
  - vascular disease, ultrasound 17–21
- Splanchnic oxygen uptake
  - amino acids, anaesthesia 431–439
- Spontaneously hypertensive rats
  - oxidative metabolism, brain 539–550
  - renal vasodilatation, angiotensin type 1 receptor antagonists 147–154
- Stable isotope
  - lymphocytes, protein synthesis 99–106
- Stem cell production
  - human embryos 248–249
- Stomach
  - chilli, capsaicin 252–254
- Stroke
  - cholesterol, lipids 399–413, 773–774
- Stroke volume
  - blood pressure, syncope 193–200
- Subcellular fractionation
  - muscle wasting, zymosan 475–481
- Sudden death
  - baroreflex sensitivity, insulin-dependent diabetes mellitus 59–64
- Superoxide dismutase
  - diabetes 441–448
- Surgery

- lymphocytes, protein synthesis 99–106
- Sustained loading
  - inspiratory effort sensation, CO<sub>2</sub> responsiveness 513–518
- Sympathetic nervous system
  - blood pressure, sleep 45–50
- Syncope
  - blood pressure, stroke volume 193–200
- Syndrome X
  - artery, morphology 739–743
- T-cell receptor genes
  - nasopharyngeal carcinoma 256–258
- T-helper 2 cytokines
  - blood transfusion 519–523
- T-lymphocytes
  - autoimmunity, biliary cirrhosis 551–558
- Therapeutic targets
  - potassium channel openers 651–663\*
- Thermogenesis
  - amino acids, anaesthesia 431–439
- Thermoregulation
  - $\alpha$ -adrenoceptor antagonist 627–631
- Thyroid hormones
  - cardiac muscle, nutritional iron deficiency 233–239
- Thyrotoxic periodic paralysis
  - sodium pump 261–264
- Tissue repair
  - lung transplantation 319–327
- Tolerance
  - T-lymphocytes, biliary cirrhosis 551–558
- Total body water
  - chronic kidney failure 763–769
- Total parenteral nutrition
  - neutrophils, sepsis 371–374
- Transforming growth factor
  - blood transfusion 519–523
- Triacylglycerol metabolism
  - creatine supplementation 113–118
- Tryptophan
  - Na<sup>+</sup>, K<sup>+</sup>-ATPase, gestational hypertension 719–723
- Tubular function
  - renal transplant recipients, cyclosporin A 489–496
- Tumour necrosis factor
  - nutrients, inflammation 121–130\*
  - pentoxifylline, cirrhosis 29–33
- Tumour suppressor gene
  - nasopharyngeal carcinoma 256–258
- Ultrasound
  - blood flow, vascular disease 17–21
- Urinary bladder
  - calcium antagonist 467–474
- Urine state of saturation
  - calcium nephrolithiasis, mineral water 313–318
- Urogastrone
  - cell proliferation, gastrointestinal tract 503–507
- Vascular disease
  - blood flow, ultrasound 17–21
  - metabolism, amino acids 79–86
- Vascular relaxation
  - sex hormones, menstrual cycle 163–168
- Vascular tone
  - menstrual cycle 163–168
- Vasoconstriction
  - thermoregulation,  $\alpha$ -adrenoceptor antagonist 627–631
- Vasodilatation
  - diabetes, dyslipidaemia 567–573
- Vasodilator peptides
  - adrenomedullin 3–16\*, 525
- Vasopressin
  - contractile response, octreotide 601–606
- Veins
  - nitric oxide, alcoholic cirrhosis 23–28
- Ventilation
  - almitrine 337–345
- Ventricular pacing
  - natriuretic peptides, neutral endopeptidase 283–291
- Vitamin E
  - antioxidant enzyme, smoking 107–111
  - inflammation, cytokines 121–130\*
- White-coat hypertension
  - left ventricular function, echocardiography 275–281
- Wine
  - phenolic compounds, lipoprotein oxidation 449–458
- X-ray absorptiometry
  - chronic kidney failure 763–769
- Zymosan
  - muscle wasting, cytochrome *c* oxidase 475–481