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.
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.
Beaustall, 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.
Borun, 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.
Bukowiecki, P.
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.
Car, S.J.
Carrell, R.W.
Caucus, R.C.
Cawood, M.
Cheller, R.A.J.
Chipperfield, A.R.
Church, M.
Clarkes, S.W.
Clausen, T.
Clegg, R.A.
Clowes, G.
Clowes, R.A.
Clelland, J.
Clements, M.
Cockcroft, A.
Cockroft, A.
Coleman, R.
Collins, P.
Connell, J.M.C.
Conor, J.M.
Corr, L.A.
Cousin, D.
Crick, J.
Dahlstein, B.N.
Cunningham, A.D.
Cumming, A.D.

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.
Elliot, H.L.
Elwyn, D.H.
Emery, P.W.
Emmeline, N.
Esler, M.
Essen, M.P.
Evans, R.D.
Evans, T.W.
Ewing, D.J.
Farrell, J.G.
Fearon, K.C.
Feehally, J.
Ferner, R.E.
Ferrari, P.
Ferrme, W.R.
Ferriss, J.B.
Firth, J.D.
Flannery, D.C.
Flores, N.
Fogelman, I.
Forsling, M.L.
Forstermann, U.
Fourrier, A.
Fox, K.A.A.
Francis, R.M.
Fraser, R.
Fraser, W.D.
Fremant, R.
Frestone, 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.
Grang, 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.
Hampson, I.
Harris, M.C.
Haxelgrove, J.
Haxelle, C.
Hawkey, C.J.
Hawkins, P.N.
Hawthorne, G.C.
Hayon, 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.
Hissworth, R.L.
Himmel, G.A.
Hjermidahl, P.
Holgate, S.T.
Holness, M.J.
Horton, R.
Hosking, D.J.
Howie, A.J.
Hughes, A.
Humphries, S.
Iggo, N.C.
Illes, P.
Iltingworth, R.
Ind, P.W.
Innes, J.A.
Jackson, A.
Jackson, D.
Jackson, M.
Jacyna, M.R.
James, P.F.W.
Jardine, A.
Jayne, W.
Jeffcoat, W.J.
Jenkins, J.S.
Jepson, M.
Johnston, C.J.
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.
Kaufmann, A.J.
Kay, A.B.
Keatinge, W.R.
Kellett, G.L.
Kendall, M.J.
Kennedy, L.
Kenyon, C.J.
Kooper, J.
Krieger, J.
Lab, M.J.
Lahiri, A.
Lane, R.
Lang, R.E.
Lanyon, L.E.
Lassen, N.A.
Lee, B.
Lechler, R.I.
Leckie, B.J.
Ledingham, J.G.G.
Lee, T.H.
Leese, H.J.
Leiper, J.B.
Levin, G.E.
Levy, J.
Acknowledgments

Nash, G.B.
Nattrass, M.
Neuberger, 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.

Reed, P.
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.
Roustock, J.E.
Rumsby, M.G.
Russell, G.I.

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

Soladye, O.A.
Solomon, L.
Sowers, J.R.
Spiller, R.
Stephne, 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.
Triffin, 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.
Waebir, B.
Walker, A.W.

Walker, I.D.
Walloe, L.
Walls, J.
Walport, M.
Walter, S.J.
Wambach, G.
Ward, M.K.
Warley, A.R.H.
Warnes, T.W.
Wear, 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.
Wooff, A.S.
Wray, S.

Yates, M.S.
<table>
<thead>
<tr>
<th>Author</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abraham, W.T.</td>
<td>429-435</td>
</tr>
<tr>
<td>Ader, J.-L.</td>
<td>29-35</td>
</tr>
<tr>
<td>Adsett, D.</td>
<td>505-511</td>
</tr>
<tr>
<td>Ajao, M.</td>
<td>315-323</td>
</tr>
<tr>
<td>Albano, J.D.M.</td>
<td>117-121</td>
</tr>
<tr>
<td>Alberti, K.G.M.M.</td>
<td>167-174</td>
</tr>
<tr>
<td>Allon, M.</td>
<td>123-129</td>
</tr>
<tr>
<td>Altieri, P.</td>
<td>647-656</td>
</tr>
<tr>
<td>Alvarez, A.L.</td>
<td>437-442</td>
</tr>
<tr>
<td>Alvestrand, A.</td>
<td>299-305</td>
</tr>
<tr>
<td>Amorena, C.</td>
<td>149-154</td>
</tr>
<tr>
<td>Anderson, J.R.</td>
<td>239-245</td>
</tr>
<tr>
<td>Ardawi, M.S.M.</td>
<td>139-147, 483-490</td>
</tr>
<tr>
<td>AriLla, E.</td>
<td>451-456</td>
</tr>
<tr>
<td>Arnolda, L.</td>
<td>583-589</td>
</tr>
<tr>
<td>Atlas, S.A.</td>
<td>371-376</td>
</tr>
<tr>
<td>Au, J.</td>
<td>377-380</td>
</tr>
<tr>
<td>Avallle, V.</td>
<td>227-231</td>
</tr>
<tr>
<td>Bachmann, F.</td>
<td>513-516</td>
</tr>
<tr>
<td>Baggio, B.</td>
<td>113-116</td>
</tr>
<tr>
<td>Baker, F.</td>
<td>259-266</td>
</tr>
<tr>
<td>Baker, P.N.</td>
<td>403-408</td>
</tr>
<tr>
<td>Bähr, V.</td>
<td>57-65</td>
</tr>
<tr>
<td>Baleke, P.</td>
<td>471-476, 477-482</td>
</tr>
<tr>
<td>Bailer, M.S.</td>
<td>155-159</td>
</tr>
<tr>
<td>Barrett, E.J.</td>
<td>457-466</td>
</tr>
<tr>
<td>Barrios, V.</td>
<td>451-456</td>
</tr>
<tr>
<td>Beattie, E.C.</td>
<td>523-530</td>
</tr>
<tr>
<td>Bell, G.M.</td>
<td>371-376</td>
</tr>
<tr>
<td>Bell, N.</td>
<td>89-95</td>
</tr>
<tr>
<td>Bennett, T.</td>
<td>393-401</td>
</tr>
<tr>
<td>Benthin, G.</td>
<td>639-645</td>
</tr>
<tr>
<td>Bergström, J.</td>
<td>331-337</td>
</tr>
<tr>
<td>Bernabeu, F.</td>
<td>551-558</td>
</tr>
<tr>
<td>Bhata, S.S.</td>
<td>117-121</td>
</tr>
<tr>
<td>Bibby, D.C.</td>
<td>657-662</td>
</tr>
<tr>
<td>Bloom, S.R.</td>
<td>619-623</td>
</tr>
<tr>
<td>Bochner, F.</td>
<td>37-42</td>
</tr>
<tr>
<td>Bohr, D.F.</td>
<td>415-423</td>
</tr>
<tr>
<td>Bondy, C.</td>
<td>599-603</td>
</tr>
<tr>
<td>Boni, C.</td>
<td>443-450</td>
</tr>
<tr>
<td>Boolell, M.</td>
<td>5-8</td>
</tr>
<tr>
<td>Boon, N.A.</td>
<td>377-380</td>
</tr>
<tr>
<td>Borsatti, A.</td>
<td>113-116</td>
</tr>
<tr>
<td>Bowman, H.F.</td>
<td>307-313</td>
</tr>
<tr>
<td>Bradley, J.R.</td>
<td>239-245</td>
</tr>
<tr>
<td>Brandi, L.S.</td>
<td>443-450</td>
</tr>
<tr>
<td>Braquet, P.</td>
<td>551-558</td>
</tr>
<tr>
<td>Britton, J.R.</td>
<td>315-323, 325-330</td>
</tr>
<tr>
<td>Broughton Pipkin, F.</td>
<td>403-408</td>
</tr>
<tr>
<td>Brown, J.E.</td>
<td>377-380</td>
</tr>
<tr>
<td>Brown, M.A.</td>
<td>505-511</td>
</tr>
<tr>
<td>Burns, H.J.G.</td>
<td>161-165</td>
</tr>
<tr>
<td>Burrows, P.C.</td>
<td>175-183</td>
</tr>
<tr>
<td>Burston, D.</td>
<td>267-272</td>
</tr>
<tr>
<td>Buzzigoli, G.</td>
<td>443-450</td>
</tr>
<tr>
<td>Cadoux-Hudson, T.A.D.</td>
<td>1-3</td>
</tr>
<tr>
<td>Caidahl, K.</td>
<td>639-645</td>
</tr>
<tr>
<td>Campbell, I.T.</td>
<td>605-611</td>
</tr>
<tr>
<td>Campbell, S.K.</td>
<td>117-121</td>
</tr>
<tr>
<td>Candiiano, G.</td>
<td>647-656</td>
</tr>
<tr>
<td>Canessa, M.</td>
<td>531-536</td>
</tr>
<tr>
<td>Caro, C.G.</td>
<td>215-220</td>
</tr>
<tr>
<td>Castro, A.</td>
<td>149-154</td>
</tr>
<tr>
<td>Catalano, C.</td>
<td>167-174</td>
</tr>
<tr>
<td>Cercignani, G.</td>
<td>647-656</td>
</tr>
<tr>
<td>Cerri, M.</td>
<td>443-450</td>
</tr>
<tr>
<td>Chapman, K.R.</td>
<td>155-159</td>
</tr>
<tr>
<td>Chapuy, P.</td>
<td>467-470</td>
</tr>
<tr>
<td>Christensen, S.</td>
<td>109-112</td>
</tr>
<tr>
<td>Clear, A.S.</td>
<td>215-220</td>
</tr>
<tr>
<td>Cohen, J.</td>
<td>619-623</td>
</tr>
<tr>
<td>Compton, A.M.</td>
<td>393-401</td>
</tr>
<tr>
<td>Connell, J.M.C.</td>
<td>51-55</td>
</tr>
<tr>
<td>Conway, M.</td>
<td>583-589</td>
</tr>
<tr>
<td>Coppack, S.W.</td>
<td>287, 339-348</td>
</tr>
<tr>
<td>Cowley, A.J.</td>
<td>239-245</td>
</tr>
<tr>
<td>Cragoe, E.J.</td>
<td>357-364</td>
</tr>
<tr>
<td>Cruickshank, A.M.</td>
<td>161-165</td>
</tr>
<tr>
<td>Dambrink, J.H.A.</td>
<td>73-79</td>
</tr>
<tr>
<td>Davison, J.M.</td>
<td>631-638</td>
</tr>
<tr>
<td>Dawson, D.J.</td>
<td>175-183</td>
</tr>
<tr>
<td>De Wardener, H.E.</td>
<td>193-200, 289-297</td>
</tr>
<tr>
<td>Derfler, K.</td>
<td>471-476</td>
</tr>
<tr>
<td>Devynck, M.-A.</td>
<td>613-618</td>
</tr>
<tr>
<td>Dickinson, C.J.</td>
<td>543-550</td>
</tr>
<tr>
<td>Dolecki, M.</td>
<td>583-589</td>
</tr>
<tr>
<td>Dominiczak, A.F.</td>
<td>415-423</td>
</tr>
<tr>
<td>Duckworth, R.</td>
<td>605-611</td>
</tr>
<tr>
<td>Dudley, C.R.K.</td>
<td>491-497</td>
</tr>
<tr>
<td>Duncan, E.M.</td>
<td>37-42</td>
</tr>
<tr>
<td>Dunlop, W.</td>
<td>631-638</td>
</tr>
<tr>
<td>Edlund, A.</td>
<td>131-138</td>
</tr>
<tr>
<td>El Nahas, A.M.</td>
<td>381-386</td>
</tr>
<tr>
<td>El Sayed, A.A.</td>
<td>381-386</td>
</tr>
<tr>
<td>Elborn, J.S.</td>
<td>89-95</td>
</tr>
<tr>
<td>Eschenhagen, G.</td>
<td>57-65</td>
</tr>
<tr>
<td>Evans, D.B.</td>
<td>239-245</td>
</tr>
<tr>
<td>Fairhurst, J.A.</td>
<td>605-611</td>
</tr>
<tr>
<td>Feehally, J.</td>
<td>259-266</td>
</tr>
<tr>
<td>Felber, J.P.</td>
<td>513-516</td>
</tr>
<tr>
<td>Felley, C.P.</td>
<td>513-516</td>
</tr>
<tr>
<td>Ferrannini, E.</td>
<td>443-450</td>
</tr>
<tr>
<td>Ferro-Luzzi, A.</td>
<td>227-231</td>
</tr>
<tr>
<td>Filitti, V.</td>
<td>613-618</td>
</tr>
<tr>
<td>Fine, D.R.</td>
<td>349-355</td>
</tr>
<tr>
<td>Finkelman, S.</td>
<td>437-442</td>
</tr>
<tr>
<td>Finocchiaro, L.M.E.</td>
<td>437-442</td>
</tr>
<tr>
<td>Firth, J.D.</td>
<td>67-71, 221-226, 559-574, 591-598</td>
</tr>
<tr>
<td>Fish, P.J.</td>
<td>215-220</td>
</tr>
<tr>
<td>Fisher, R.M.</td>
<td>539-348</td>
</tr>
<tr>
<td>Fouke, J.M.</td>
<td>307-313</td>
</tr>
<tr>
<td>Fraser, W.D.</td>
<td>161-165</td>
</tr>
<tr>
<td>Frayn, K.N.</td>
<td>339-348, 605-611</td>
</tr>
<tr>
<td>Frediani, M.</td>
<td>443-450</td>
</tr>
<tr>
<td>Freeman, D.J.</td>
<td>575-581</td>
</tr>
<tr>
<td>Fulcher, G.R.</td>
<td>167-174</td>
</tr>
<tr>
<td>Fürst, P.</td>
<td>331-337</td>
</tr>
<tr>
<td>Gaffney, D.</td>
<td>575-581</td>
</tr>
<tr>
<td>Gallen, I.W.</td>
<td>279-285</td>
</tr>
<tr>
<td>Gambaro, G.</td>
<td>113-116</td>
</tr>
<tr>
<td>Garberi, A.</td>
<td>647-656</td>
</tr>
<tr>
<td>Gardiner, S.M.</td>
<td>393-401</td>
</tr>
<tr>
<td>Gelfand, R.A.</td>
<td>457-466</td>
</tr>
<tr>
<td>Gheare, M.A.</td>
<td>619-623</td>
</tr>
<tr>
<td>Ghiggeri, G.M.</td>
<td>647-656</td>
</tr>
<tr>
<td>Gibbons, G.F.</td>
<td>339-348</td>
</tr>
<tr>
<td>Ginevri, F.</td>
<td>647-656</td>
</tr>
<tr>
<td>Girolami, J.-F.</td>
<td>29-35</td>
</tr>
<tr>
<td>Goldsmith, D.J.A.</td>
<td>357-364</td>
</tr>
<tr>
<td>Goldstein, A.J.</td>
<td>233-238</td>
</tr>
<tr>
<td>Gómez-Garre, D.</td>
<td>551-558</td>
</tr>
<tr>
<td>Gonick, H.C.</td>
<td>185-192</td>
</tr>
<tr>
<td>Goode, H.F.</td>
<td>247-252</td>
</tr>
<tr>
<td>Goss, D.E.</td>
<td>215-220</td>
</tr>
<tr>
<td>Gove, C.</td>
<td>67-71</td>
</tr>
<tr>
<td>Granström, E.F.</td>
<td>639-645</td>
</tr>
<tr>
<td>Grant, P.J.</td>
<td>513-516</td>
</tr>
<tr>
<td>Green, J.R.B.</td>
<td>663-668</td>
</tr>
<tr>
<td>Griffin, S.A.</td>
<td>523-530</td>
</tr>
<tr>
<td>Grimble, R.F.</td>
<td>657-662</td>
</tr>
<tr>
<td>Grimm, G.</td>
<td>477-482</td>
</tr>
<tr>
<td>Grover, P.K.</td>
<td>9-15</td>
</tr>
<tr>
<td>Author Name</td>
<td>Pages</td>
</tr>
<tr>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>Guillou, P.J.</td>
<td>247–252</td>
</tr>
<tr>
<td>Gusmano, R.</td>
<td>647–656</td>
</tr>
<tr>
<td>Haines, D.J.</td>
<td>663–668</td>
</tr>
<tr>
<td>Hall, R.I.</td>
<td>247–252</td>
</tr>
<tr>
<td>Halls, J.</td>
<td>215–220</td>
</tr>
<tr>
<td>Harmeyer, J.</td>
<td>409–414</td>
</tr>
<tr>
<td>Hartley, G.</td>
<td>517–522</td>
</tr>
<tr>
<td>Hauser, A.-C.</td>
<td>471–476</td>
</tr>
<tr>
<td>Haylor, J.</td>
<td>381–386</td>
</tr>
<tr>
<td>Heath, D.F.</td>
<td>201–213</td>
</tr>
<tr>
<td>Hensen, J.</td>
<td>429–435</td>
</tr>
<tr>
<td>Heseltine, D.</td>
<td>517–522</td>
</tr>
<tr>
<td>Hilton, P.J.</td>
<td>357–364</td>
</tr>
<tr>
<td>Hjelte, L.</td>
<td>299–305</td>
</tr>
<tr>
<td>Holmes, R.</td>
<td>175–183</td>
</tr>
<tr>
<td>Hulks, G.</td>
<td>51–55</td>
</tr>
<tr>
<td>Humphreys, S.M.</td>
<td>339–348</td>
</tr>
<tr>
<td>Hunter, J.O.</td>
<td>425–427</td>
</tr>
<tr>
<td>Imholz, B.P.M.</td>
<td>73–79</td>
</tr>
<tr>
<td>Ireland, S.B.</td>
<td>537–542</td>
</tr>
<tr>
<td>Jackson, A.A.</td>
<td>253–258</td>
</tr>
<tr>
<td>Jadine, A.G.</td>
<td>51–55</td>
</tr>
<tr>
<td>Jamal, Y.S.</td>
<td>139–147</td>
</tr>
<tr>
<td>James, G.</td>
<td>371–376</td>
</tr>
<tr>
<td>James, M.A.</td>
<td>499–504</td>
</tr>
<tr>
<td>Janata, O.</td>
<td>471–476</td>
</tr>
<tr>
<td>Jenkins, D.</td>
<td>669–670</td>
</tr>
<tr>
<td>Jenkins, M.V.</td>
<td>233–238</td>
</tr>
<tr>
<td>Johns, E.J.</td>
<td>43–50</td>
</tr>
<tr>
<td>Jones, J.V.</td>
<td>499–504</td>
</tr>
<tr>
<td>Jones, P.W.</td>
<td>17–21</td>
</tr>
<tr>
<td>Jorfeldt, L.</td>
<td>81–87</td>
</tr>
<tr>
<td>Kador, P.</td>
<td>599–603</td>
</tr>
<tr>
<td>Karemaker, J.M.</td>
<td>73–79</td>
</tr>
<tr>
<td>Katakiti, M.</td>
<td>233–238</td>
</tr>
<tr>
<td>Kaune, R.</td>
<td>409–414</td>
</tr>
<tr>
<td>Kelleher, J.</td>
<td>247–252</td>
</tr>
<tr>
<td>Kelly, S.M.</td>
<td>425–427</td>
</tr>
<tr>
<td>Kelsey, C.R.</td>
<td>233–238</td>
</tr>
<tr>
<td>Kemp, G.J.</td>
<td>491–497</td>
</tr>
<tr>
<td>Khalil-Manesh, F.</td>
<td>185–192</td>
</tr>
<tr>
<td>Khoja, S.M.</td>
<td>483–490</td>
</tr>
<tr>
<td>Knox, A.J.</td>
<td>315–323, 325–330</td>
</tr>
<tr>
<td>Kruithof, E.K.O.</td>
<td>513–516</td>
</tr>
<tr>
<td>Kurz, R.W.</td>
<td>477–482</td>
</tr>
<tr>
<td>Lagarde, M.</td>
<td>467–470</td>
</tr>
<tr>
<td>Lam, H.-C.</td>
<td>619–623</td>
</tr>
<tr>
<td>Lanne, B.</td>
<td>639–645</td>
</tr>
<tr>
<td>Laragh, J.H.</td>
<td>371–376</td>
</tr>
<tr>
<td>Larsson, M.</td>
<td>299–305</td>
</tr>
<tr>
<td>Le Quan, Sang, K.H.</td>
<td>613–618</td>
</tr>
<tr>
<td>Leclercq, C.</td>
<td>227–231</td>
</tr>
<tr>
<td>Lee, M.R.</td>
<td>377–380</td>
</tr>
<tr>
<td>Leenen, F.H.H.</td>
<td>155–159</td>
</tr>
<tr>
<td>Levenson, J.</td>
<td>613–618</td>
</tr>
<tr>
<td>Lever, M.J.</td>
<td>215–220</td>
</tr>
<tr>
<td>Lightman, Stan</td>
<td>599–603</td>
</tr>
<tr>
<td>Lightman, Susan</td>
<td>599–603</td>
</tr>
<tr>
<td>Linde, B.</td>
<td>131–138</td>
</tr>
<tr>
<td>Lloyd, J.V.</td>
<td>37–42</td>
</tr>
<tr>
<td>Lobley, R.W.</td>
<td>175–183</td>
</tr>
<tr>
<td>Louard, R.J.</td>
<td>457–466</td>
</tr>
<tr>
<td>Loveridge, N.</td>
<td>233–238</td>
</tr>
<tr>
<td>López-Farré, A.</td>
<td>551–558</td>
</tr>
<tr>
<td>López-Novoa, J.M.</td>
<td>551–558</td>
</tr>
<tr>
<td>Lyall, F.</td>
<td>523–530</td>
</tr>
<tr>
<td>Macdonald, I.A.</td>
<td>279–285, 517–522</td>
</tr>
<tr>
<td>MacGregor, G.A.</td>
<td>5–8</td>
</tr>
<tr>
<td>MacLaughlin, M.</td>
<td>23–27</td>
</tr>
<tr>
<td>MacNee, W.</td>
<td>97–107</td>
</tr>
<tr>
<td>Macosch, O.</td>
<td>467–470</td>
</tr>
<tr>
<td>Macphail, S.</td>
<td>625–630, 631–638</td>
</tr>
<tr>
<td>MacPherson, F.</td>
<td>523–530</td>
</tr>
<tr>
<td>Muleki-Yazdi, M.R.</td>
<td>155–159</td>
</tr>
<tr>
<td>Mulmborg, A.-S.</td>
<td>299–305</td>
</tr>
<tr>
<td>Marchetti, J.</td>
<td>29–35</td>
</tr>
<tr>
<td>Marchini, F.</td>
<td>113–116</td>
</tr>
<tr>
<td>Marshall, J.M.</td>
<td>43–50</td>
</tr>
<tr>
<td>Marshall, V.R.</td>
<td>9–15</td>
</tr>
<tr>
<td>Marzaro, G.</td>
<td>113–116</td>
</tr>
<tr>
<td>Matthews, D.M.</td>
<td>267–272</td>
</tr>
<tr>
<td>Maycock, P.F.</td>
<td>605–611</td>
</tr>
<tr>
<td>McDonough, M.J.</td>
<td>339–348</td>
</tr>
<tr>
<td>McFadden, E.R., Jr.</td>
<td>307–313</td>
</tr>
<tr>
<td>McNally, P.G.</td>
<td>259–266</td>
</tr>
<tr>
<td>Mello Aires, M.</td>
<td>23–27</td>
</tr>
<tr>
<td>Meskini, N.</td>
<td>467–470</td>
</tr>
<tr>
<td>Millar, J.G.B.</td>
<td>117–121</td>
</tr>
<tr>
<td>Mistry, N.</td>
<td>259–266</td>
</tr>
<tr>
<td>Moran, B.J.</td>
<td>253–258</td>
</tr>
<tr>
<td>Morris, J.</td>
<td>357–364</td>
</tr>
<tr>
<td>Morton, J.J.</td>
<td>625–630</td>
</tr>
<tr>
<td>Mosca, F.</td>
<td>443–450</td>
</tr>
<tr>
<td>Mott, V.</td>
<td>625–630</td>
</tr>
<tr>
<td>Müller, A.</td>
<td>149–154</td>
</tr>
<tr>
<td>Muller, A.F.</td>
<td>393–401</td>
</tr>
<tr>
<td>Nahmod, V.E.</td>
<td>437–442</td>
</tr>
<tr>
<td>Nemoz, G.</td>
<td>467–470</td>
</tr>
<tr>
<td>Newsome, E.A.</td>
<td>483–490</td>
</tr>
<tr>
<td>Ng, L.L.</td>
<td>491–497</td>
</tr>
<tr>
<td>Nicholls, D.P.</td>
<td>89–95</td>
</tr>
<tr>
<td>Northfield, T.C.</td>
<td>349–355</td>
</tr>
<tr>
<td>Oelkers, W.</td>
<td>57–65</td>
</tr>
<tr>
<td>Oleggini, M.</td>
<td>443–450</td>
</tr>
<tr>
<td>Oleggini, R.</td>
<td>647–656</td>
</tr>
<tr>
<td>Orskov, H.</td>
<td>167–174</td>
</tr>
<tr>
<td>Packard, C.J.</td>
<td>575–581</td>
</tr>
<tr>
<td>Panos, M.Z.</td>
<td>67–71</td>
</tr>
<tr>
<td>Parker, K.H.</td>
<td>215–220</td>
</tr>
<tr>
<td>Pasque, C.B.</td>
<td>123–129</td>
</tr>
<tr>
<td>Pecker, M.</td>
<td>371–376</td>
</tr>
<tr>
<td>Pecori, N.</td>
<td>443–450</td>
</tr>
<tr>
<td>Perez-Rodrigo, P.</td>
<td>551–558</td>
</tr>
<tr>
<td>Persson, L.</td>
<td>639–645</td>
</tr>
<tr>
<td>Petersen, J.S.</td>
<td>109–112</td>
</tr>
<tr>
<td>Petersson, A.-S.</td>
<td>639–645</td>
</tr>
<tr>
<td>Petranyi, G.</td>
<td>167–174</td>
</tr>
<tr>
<td>Pirola, C.J.</td>
<td>437–442</td>
</tr>
<tr>
<td>Pittois-Merli, I.</td>
<td>613–618</td>
</tr>
<tr>
<td>Poston, L.</td>
<td>273–278, 357–364</td>
</tr>
<tr>
<td>Potter, J.F.</td>
<td>517–522</td>
</tr>
<tr>
<td>Potts, J.L.</td>
<td>339–348</td>
</tr>
<tr>
<td>Pradlauda, F.</td>
<td>29–35</td>
</tr>
<tr>
<td>Prigent, A.F.</td>
<td>467–470</td>
</tr>
<tr>
<td>Quirk, F.H.</td>
<td>17–21</td>
</tr>
<tr>
<td>Radda, G.K.</td>
<td>1–3, 491–497, 583–589</td>
</tr>
<tr>
<td>Rajagopalan, B.</td>
<td>1–3, 583–589</td>
</tr>
<tr>
<td>Ramon y Cajal, S.</td>
<td>551–558</td>
</tr>
<tr>
<td>Ranaldi, L.</td>
<td>227–231</td>
</tr>
<tr>
<td>Ratcliffe, P.I.</td>
<td>491–497</td>
</tr>
<tr>
<td>Rebec, A.S.</td>
<td>155–159</td>
</tr>
<tr>
<td>Regan, C.J.</td>
<td>605–611</td>
</tr>
<tr>
<td>Reinharth, W.H.</td>
<td>387–391</td>
</tr>
<tr>
<td>Riley, M.</td>
<td>89–95</td>
</tr>
<tr>
<td>Roberts, A.F.C.</td>
<td>221–226</td>
</tr>
<tr>
<td>Rodriguez, M.</td>
<td>123–129</td>
</tr>
<tr>
<td>Rodriguez-Sánchez, M.N.</td>
<td>451–456</td>
</tr>
<tr>
<td>Rohner, F.</td>
<td>387–391</td>
</tr>
<tr>
<td>Rose, G.A.</td>
<td>233–238</td>
</tr>
<tr>
<td>Russo, D.</td>
<td>523–530</td>
</tr>
<tr>
<td>Rutberg, H.</td>
<td>81–87</td>
</tr>
<tr>
<td>Rutherford, P.A.</td>
<td>365–369</td>
</tr>
<tr>
<td>Ryall, R.L.</td>
<td>9–15</td>
</tr>
<tr>
<td>Saphier, P.W.</td>
<td>233–238</td>
</tr>
<tr>
<td>Scheucler, A.</td>
<td>437–442</td>
</tr>
<tr>
<td>Schrier, R.W.</td>
<td>429–435</td>
</tr>
<tr>
<td>Schröder, B.</td>
<td>409–414</td>
</tr>
<tr>
<td>Schwietzer, G.</td>
<td>57–65</td>
</tr>
<tr>
<td>Sealey, J.E.</td>
<td>371–376</td>
</tr>
<tr>
<td>Selby, C.</td>
<td>97–107</td>
</tr>
<tr>
<td>Sertl, K.</td>
<td>477–482</td>
</tr>
<tr>
<td>Shalmi, M.</td>
<td>109–112</td>
</tr>
<tr>
<td>Sharif, H.</td>
<td>583–589</td>
</tr>
<tr>
<td>Shenkin, A.</td>
<td>161–165</td>
</tr>
<tr>
<td>Shepherd, J.</td>
<td>575–581</td>
</tr>
<tr>
<td>Siebert, D.M.</td>
<td>37–42</td>
</tr>
<tr>
<td>Silva, A.</td>
<td>619–623</td>
</tr>
<tr>
<td>Simon, A.</td>
<td>613–618</td>
</tr>
<tr>
<td>Sleight, P.</td>
<td>583–589</td>
</tr>
<tr>
<td>Smaje, L.H.</td>
<td>5–8</td>
</tr>
<tr>
<td>Author</td>
<td>Pages</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Sollevi, A.</td>
<td>131–138</td>
</tr>
<tr>
<td>Somogyi, A.A.</td>
<td>37–42</td>
</tr>
<tr>
<td>Stamp, T.C.B.</td>
<td>233–238</td>
</tr>
<tr>
<td>Stanford, C.F.</td>
<td>89–95</td>
</tr>
<tr>
<td>Stewart, P.M.</td>
<td>537–542</td>
</tr>
<tr>
<td>Stockenhuber, F.</td>
<td>471–476, 477–482</td>
</tr>
<tr>
<td>Strandvik, B.</td>
<td>299–305</td>
</tr>
<tr>
<td>Strazzullo, P.</td>
<td>531–536</td>
</tr>
<tr>
<td>Swan, C.H.J.</td>
<td>663–668</td>
</tr>
<tr>
<td>Symonds, E.M.</td>
<td>403–408</td>
</tr>
<tr>
<td>Takahashi, K.</td>
<td>619–623</td>
</tr>
<tr>
<td>Tattersfield, A.E.</td>
<td>315–323, 325–330</td>
</tr>
<tr>
<td>Taylor, D.J.</td>
<td>491–497</td>
</tr>
<tr>
<td>Thiede, H.M.</td>
<td>57–65</td>
</tr>
<tr>
<td>Thomsen, K.</td>
<td>109–112</td>
</tr>
<tr>
<td>Thomson, N.C.</td>
<td>51–55</td>
</tr>
<tr>
<td>Tookc, J.E.</td>
<td>5–8</td>
</tr>
<tr>
<td>Toti, E.</td>
<td>227–231</td>
</tr>
<tr>
<td>Tran-Van, T.</td>
<td>29–35</td>
</tr>
<tr>
<td>Tuchelt, H.</td>
<td>57–65</td>
</tr>
<tr>
<td>Van Damme, J.</td>
<td>161–165</td>
</tr>
<tr>
<td>Villamil, M.F.</td>
<td>149–154</td>
</tr>
<tr>
<td>Vinnars, E.</td>
<td>331–337</td>
</tr>
<tr>
<td>Walker, B.E.</td>
<td>247–252</td>
</tr>
<tr>
<td>Walker, M.</td>
<td>167–174</td>
</tr>
<tr>
<td>Waller, D.G.</td>
<td>117–121</td>
</tr>
<tr>
<td>Walls, J.</td>
<td>259–266</td>
</tr>
<tr>
<td>Warwick, R.</td>
<td>175–183</td>
</tr>
<tr>
<td>Wasserman, S.M.</td>
<td>5–8</td>
</tr>
<tr>
<td>Watson, M.</td>
<td>357–364</td>
</tr>
<tr>
<td>Weiler, E.</td>
<td>185–192</td>
</tr>
<tr>
<td>Wennmalm, Å.</td>
<td>639–645</td>
</tr>
<tr>
<td>Westaby, D.</td>
<td>67–71</td>
</tr>
<tr>
<td>Wieling, W.</td>
<td>73–79</td>
</tr>
<tr>
<td>Williams, H.E.</td>
<td>113–116</td>
</tr>
<tr>
<td>Williams, R.</td>
<td>67–71</td>
</tr>
<tr>
<td>Williams, S.A.</td>
<td>5–8</td>
</tr>
<tr>
<td>Wilson, K.M.</td>
<td>37–42</td>
</tr>
<tr>
<td>Winell, S.</td>
<td>639–645</td>
</tr>
<tr>
<td>Wolin, A.D.</td>
<td>307–313</td>
</tr>
<tr>
<td>Woodley, J.F.</td>
<td>663–668</td>
</tr>
<tr>
<td>Woolfson, R.G.</td>
<td>273–278</td>
</tr>
<tr>
<td>Zammit, V.C.</td>
<td>505–511</td>
</tr>
<tr>
<td>Zentler-Munro, P.L.</td>
<td>349–355</td>
</tr>
</tbody>
</table>
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
  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
Aminolide
  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
  binding platelets, pregnancy 403–408
  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*
Subject Index

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
erthrocyte 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
Cremaophor
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
Desaminot-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
Subject Index xv

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, N⁰-monomethyl-L-arginine 273–278
Endothelin-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 mucus 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
Subject Index

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
Glucoaminase
  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 bacteria
  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 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
Subject Index xvii

Kallikrein–kinin system
- angiotensin-converting enzyme inhibitors, kidney 29–35

Kidney
- angiotensin-converting enzyme inhibitors, kininas 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

Kininas
- kidney, angiotensin converting enzyme inhibitors 29–35

Labrafil
- endothelium-derived relaxing factor 149–154

Lactate 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 123–129
- polycations, isolated perfused kidney 591–598
- sodium handling, isolated perfused kidney 559–574

Neutrophils
- kinetics, lung 97–107*

Nicardipine
- isolated perfused heart, endothelium 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

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 hydrolyses
intestinal mucosa, uraemia 663–668
Peptides
kinetics of influx, jejunum 267–272
Pharmacokinetics
tobramycin, essential fatty acid deficiency 299–305
Pineal gland
muscarnic 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
Prostaglandin E,

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
Subject Index

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-monooctadecanoyl glyceryl-phosphoryl-choline 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 antipporter, 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 antipporter
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-ε-arginine-vasopressin 117–121

Subject Index
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