<table>
<thead>
<tr>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbate, R.</td>
<td>101-105</td>
</tr>
<tr>
<td>Abbey, P.A.</td>
<td>235-240</td>
</tr>
<tr>
<td>Ameen, M.</td>
<td>509-516</td>
</tr>
<tr>
<td>Andreasen, F.</td>
<td>119-129</td>
</tr>
<tr>
<td>Angel, M.F.</td>
<td>235-240</td>
</tr>
<tr>
<td>Arnold, J.</td>
<td>213-217</td>
</tr>
<tr>
<td>Arnold, L.L.</td>
<td>235-240</td>
</tr>
<tr>
<td>Arocha, L.</td>
<td>373-384</td>
</tr>
<tr>
<td>Aronson, J.K.</td>
<td>509-516</td>
</tr>
<tr>
<td>Astrup, A.</td>
<td>53-58, 595-598</td>
</tr>
<tr>
<td>Bachmann, J.</td>
<td>17-23</td>
</tr>
<tr>
<td>Baldock, B.</td>
<td>517-523</td>
</tr>
<tr>
<td>Ball, J.M.</td>
<td>419-426</td>
</tr>
<tr>
<td>Barclay, P.L.</td>
<td>265-269</td>
</tr>
<tr>
<td>Barnes, P.J.</td>
<td>241-247</td>
</tr>
<tr>
<td>Barrett-Connor, E.</td>
<td>199-203</td>
</tr>
<tr>
<td>Barrie, T.</td>
<td>333-338</td>
</tr>
<tr>
<td>Bassendine, M.F.</td>
<td>451-455</td>
</tr>
<tr>
<td>Bax, N.D.S.</td>
<td>155-160</td>
</tr>
<tr>
<td>Bell, N.</td>
<td>633-639</td>
</tr>
<tr>
<td>Benjamin, N.</td>
<td>183-190</td>
</tr>
<tr>
<td>Bennett, J.A.</td>
<td>265-269</td>
</tr>
<tr>
<td>Bennett, T.</td>
<td>39-45</td>
</tr>
<tr>
<td>Berti, M.</td>
<td>403</td>
</tr>
<tr>
<td>Berzlanovich, A.</td>
<td>47-51</td>
</tr>
<tr>
<td>Bestetti, R.B.</td>
<td>33-37</td>
</tr>
<tr>
<td>Bie, P.</td>
<td>595-598</td>
</tr>
<tr>
<td>Bilo, H.J.G.</td>
<td>219-225</td>
</tr>
<tr>
<td>Blendis, L.M.</td>
<td>475-480</td>
</tr>
<tr>
<td>Blessing, K.</td>
<td>587-593</td>
</tr>
<tr>
<td>Bloom, S.R.</td>
<td>419-426</td>
</tr>
<tr>
<td>Boonman, A.M.C.</td>
<td>385-391</td>
</tr>
<tr>
<td>Boyer, J.</td>
<td>313-318</td>
</tr>
<tr>
<td>Boys, R.J.</td>
<td>113-117</td>
</tr>
<tr>
<td>Brammar, W.J.</td>
<td>339-344</td>
</tr>
<tr>
<td>Brandenberger, G.</td>
<td>443-449</td>
</tr>
<tr>
<td>Breum, L.</td>
<td>53-58</td>
</tr>
<tr>
<td>Brooke, M.H.</td>
<td>559-564</td>
</tr>
<tr>
<td>Brown, D.J.</td>
<td>271-276</td>
</tr>
<tr>
<td>Buch, J.</td>
<td>119-129</td>
</tr>
<tr>
<td>Buchanan, V.</td>
<td>587-593</td>
</tr>
<tr>
<td>Buckley, M.G.</td>
<td>293-299</td>
</tr>
<tr>
<td>Burns, E.</td>
<td>155-160</td>
</tr>
<tr>
<td>Burton, G.A.</td>
<td>435-441</td>
</tr>
<tr>
<td>Cabrera, A.</td>
<td>373-384</td>
</tr>
<tr>
<td>Calam, J.</td>
<td>281-284</td>
</tr>
<tr>
<td>Calder, A.G.</td>
<td>587-593</td>
</tr>
<tr>
<td>Cameron, J.S.</td>
<td>191-197</td>
</tr>
<tr>
<td>Caramelo, C.</td>
<td>143-147</td>
</tr>
<tr>
<td>Cardoso, H.M.</td>
<td>419-426</td>
</tr>
<tr>
<td>Catto, G.R.D.</td>
<td>87-93, 9-15</td>
</tr>
<tr>
<td>Chalmers, R.A.</td>
<td>393-400</td>
</tr>
<tr>
<td>Christensen, N.J.</td>
<td>53-58, 595-598</td>
</tr>
<tr>
<td>Christie, J.M.L.</td>
<td>107-112</td>
</tr>
<tr>
<td>Chung, K.F.</td>
<td>241-247</td>
</tr>
<tr>
<td>Clements, D.</td>
<td>319-324</td>
</tr>
<tr>
<td>Coates, M.E.</td>
<td>281-284</td>
</tr>
<tr>
<td>Colella, A.</td>
<td>101-105</td>
</tr>
<tr>
<td>Coll-García, E.</td>
<td>373-384</td>
</tr>
<tr>
<td>Colombel, J.F.</td>
<td>517-523</td>
</tr>
<tr>
<td>Compton, J.E.</td>
<td>319-324</td>
</tr>
<tr>
<td>Cooper, J.</td>
<td>549-558</td>
</tr>
<tr>
<td>Coppack, S.W.</td>
<td>471-474</td>
</tr>
<tr>
<td>Corrales, J.J.</td>
<td>301-307</td>
</tr>
<tr>
<td>Cortot, A.</td>
<td>517-523</td>
</tr>
<tr>
<td>Cosseddu, D.</td>
<td>489-495</td>
</tr>
<tr>
<td>Crusius, J.B.A.</td>
<td>161-166</td>
</tr>
<tr>
<td>Crysler, P.E.</td>
<td>583-586</td>
</tr>
<tr>
<td>Cumming, A.D.</td>
<td>427-433</td>
</tr>
<tr>
<td>Cummings, J.H.</td>
<td>177-182</td>
</tr>
<tr>
<td>Davies, J.E.</td>
<td>509-516, 539-547</td>
</tr>
<tr>
<td>Davies, P.M.</td>
<td>191-197</td>
</tr>
<tr>
<td>Davies, S.E.C.</td>
<td>393-400</td>
</tr>
<tr>
<td>de Jonge, A.</td>
<td>435-441</td>
</tr>
<tr>
<td>Deqaux, G.</td>
<td>77-84</td>
</tr>
<tr>
<td>Devynck, M.A.</td>
<td>205-211</td>
</tr>
<tr>
<td>Dhar, H.</td>
<td>95-99</td>
</tr>
<tr>
<td>Dietz, R.</td>
<td>285-291</td>
</tr>
<tr>
<td>Donker, A.J.M.</td>
<td>161-166, 219-225</td>
</tr>
<tr>
<td>Dorhout Mees, E.J.</td>
<td>481-488</td>
</tr>
<tr>
<td>Doris, E.</td>
<td>403</td>
</tr>
<tr>
<td>Douglas, S.L.E.</td>
<td>249-256</td>
</tr>
<tr>
<td>Droste, H.T.</td>
<td>325-331</td>
</tr>
<tr>
<td>Dunlop, W.</td>
<td>113-117</td>
</tr>
<tr>
<td>Duthie, G.G.</td>
<td>611-618</td>
</tr>
<tr>
<td>Edmondson, J.W.</td>
<td>321-327</td>
</tr>
<tr>
<td>Edmondson, M.T.</td>
<td>249-256</td>
</tr>
<tr>
<td>Edwards, R.H.T.</td>
<td>367-371, 559-564</td>
</tr>
<tr>
<td>Eeftinck Schattenkerk,</td>
<td>J.K.M. 359-365</td>
</tr>
<tr>
<td>Ehrenreich, E.</td>
<td>110-129</td>
</tr>
<tr>
<td>Eisenhofer, G.</td>
<td>257-263</td>
</tr>
<tr>
<td>El Yakami, J.</td>
<td>517-523</td>
</tr>
<tr>
<td>Elborn, J.S.</td>
<td>633-639</td>
</tr>
<tr>
<td>Elia, M.</td>
<td>177-182, 471-474, 571-582</td>
</tr>
<tr>
<td>Ellory, J.C.</td>
<td>137-141</td>
</tr>
<tr>
<td>Elwood, W.</td>
<td>241-247</td>
</tr>
<tr>
<td>Endert, E.</td>
<td>359-365</td>
</tr>
<tr>
<td>Eremin, O.</td>
<td>587-593</td>
</tr>
<tr>
<td>Esler, M.D.</td>
<td>257-263</td>
</tr>
<tr>
<td>Evans, C.</td>
<td>319-324</td>
</tr>
<tr>
<td>Evans, W.D.</td>
<td>319-324</td>
</tr>
<tr>
<td>Faergemann, O.</td>
<td>119-129</td>
</tr>
<tr>
<td>Farquhar, I.</td>
<td>39-45</td>
</tr>
<tr>
<td>Fauler, J.</td>
<td>497-504</td>
</tr>
<tr>
<td>Favre, H.</td>
<td>599-604</td>
</tr>
<tr>
<td>Felipe, S.</td>
<td>301-307</td>
</tr>
<tr>
<td>Fell, G.S.</td>
<td>505-508</td>
</tr>
<tr>
<td>Ferrier, C.</td>
<td>257-263</td>
</tr>
<tr>
<td>Fervenza, F.C.</td>
<td>137-141</td>
</tr>
<tr>
<td>Fiorentini, C.</td>
<td>403</td>
</tr>
<tr>
<td>Fischer, T.A.</td>
<td>285-291</td>
</tr>
<tr>
<td>Fisher, B.M.</td>
<td>333-338, 525-531</td>
</tr>
<tr>
<td>Fleisch, H.</td>
<td>71-76</td>
</tr>
<tr>
<td>Follesnu, A.</td>
<td>443-449</td>
</tr>
<tr>
<td>Forfar, J.C.</td>
<td>227-233</td>
</tr>
<tr>
<td>Forrest, J.A.H.</td>
<td>505-508</td>
</tr>
<tr>
<td>Franklin, J.A.</td>
<td>405-411</td>
</tr>
<tr>
<td>Frayn, K.N.</td>
<td>25-32, 471-474</td>
</tr>
<tr>
<td>Freestone, S.</td>
<td>167-176</td>
</tr>
<tr>
<td>Frier, B.M.</td>
<td>333-338</td>
</tr>
<tr>
<td>Frith, V.</td>
<td>95-99</td>
</tr>
<tr>
<td>Fröhlich, J.C.</td>
<td>497-504</td>
</tr>
<tr>
<td>Fukui, K.</td>
<td>131-136</td>
</tr>
<tr>
<td>Fussey, S.P.M.</td>
<td>451-455</td>
</tr>
<tr>
<td>Galasko, C.S.B.</td>
<td>25-32</td>
</tr>
<tr>
<td>Galli, C.</td>
<td>403</td>
</tr>
<tr>
<td>Gammage, M.D.</td>
<td>405-411</td>
</tr>
<tr>
<td>Gandy, J.D.</td>
<td>393-400</td>
</tr>
<tr>
<td>Ganguly, A.</td>
<td>1-7</td>
</tr>
<tr>
<td>Gans, R.O.B.</td>
<td>219-225</td>
</tr>
<tr>
<td>Garcia, L.C.</td>
<td>301-307</td>
</tr>
<tr>
<td>Garlick, P.J.</td>
<td>587-593</td>
</tr>
<tr>
<td>Garrido, M.C.</td>
<td>539-547</td>
</tr>
<tr>
<td>Gastald, M.</td>
<td>313-318</td>
</tr>
<tr>
<td>Gensini, G.F.</td>
<td>101-105</td>
</tr>
<tr>
<td>Gerdes, L.U.</td>
<td>119-129</td>
</tr>
<tr>
<td>Ghati, M.A.</td>
<td>419-426</td>
</tr>
<tr>
<td>Glynn, I.M.</td>
<td>85-86</td>
</tr>
<tr>
<td>Goldberg, G.R.</td>
<td>571-582</td>
</tr>
<tr>
<td>Goodlad, R.A.</td>
<td>281-284</td>
</tr>
<tr>
<td>Gould, G.</td>
<td>353-358</td>
</tr>
<tr>
<td>Gómez, F.</td>
<td>373-384</td>
</tr>
<tr>
<td>Graafsm, S.J.</td>
<td>325-331</td>
</tr>
<tr>
<td>Graf, G.</td>
<td>47-51</td>
</tr>
<tr>
<td>Gray, K.A.</td>
<td>235-240</td>
</tr>
</tbody>
</table>
Author Index

Laine, A. 517-523
Lambert, G. 257-263
Lang, R.E. 285-291
Le Quan Sang, K.-H. 205-211
Leatherdale, S.T. 277-280
Lechin, A. 373-384
Lechin, F. 373-384
Lechin, M. 373-384
Lee, C.Y. 281-284
Lee, M.R. 149-154
Lee, Y.C. 419-426
Leheny, W.A. 87-93
Lenders, J. 41 3-4 17
Lennie, S.E. 525-531
Lepore, D.A. 235-240
Lerique, B. 313-318
Lewis, A. 95-99
Linari, F. 489-495
Lindsay, J.G. 451-455
Linton, A. 427-433
Little, R.A. 25-32
Logan, A.G. 475-480
Lopez-Novoa, J.M. 143-147
Lotvall, J.O. 241-247
Louis, W.J. 271-276
Lowe, G.D.O. 525-531
MacCuish, A.C. 525-531
Macdougall, A.I. 505-508
MacGregor, G.A. 293-299
Macleod, A.M. 559-564
Maes, P. 517-523
Marangella, M. 489-495
Matsukawa, N.D. 293-299
Matsuoka, H. 131-136
McArdle, A. 367-371
McAuslane, J.A.N. 167-176
McCance, A.J. 227-233
Mckane, W.R. 633-639
McNurlan, M.A. 587-593
Mellow, C.G. 235-240
Meredith, A.D. 137-141
Meredith, I.T. 257-263
Meuwissen, S.G.M. 161-166
Miller, J.A. 475-480
Miller, M.A. 293-299
Mills, I.H. 401-402
Miralles, J.M. 301-307
Mizon, C. 517-523
Mizon, J. 517-523
Moderati, P.A. 101-105
Montenay-Garestier, T. 205-211
Moral, G.A. 475-480
Morgan, W.D. 319-324
Moritz, T. 301-307
Morrice, P.C. 611-618
Motley, R. 319-324
Muccillo, G. 33-37
Mühlbauer, R.C. 71-76
Mulvany, M.J. 119-129
Muralikrishna, G.S. 505-508
Nauta, J.J.P. 219-225
Neri Serneri, G.G. 101-105
Nerlich, M.L. 497-504
Ng, L.L. 95-99, 509-516, 539-547
Nicholls, D.P. 633-639
Nwokolo, C.U. 619-624
O’Brien, B. McC. 235-240
Oliveira, J.S.M. 33-37
Oliveira, A. 143-147
Pacy, P.J. 345-352
Pals, G. 161-166
Park, K.G.M. 587-593
Parsons, S.T. 107-112
Peel, G. 47-51
Pepi, M. 403
Perier, O. 77-84
Peter, J.D. 443-449
Peters, T.J. 393-400
Petrus, M. 489-495
Pinto, L.Z. 33-37
Pomare, E.W. 177-182
Pounder, R.E. 619-624
Power, D.A. 9-15
Preedy, V.R. 393-400
Prescott, L.F. 167-176
Prewett, E.J. 619-624
Proper, D.J. 9-15, 87-93
Pullicino, E. 571-582
Quin, J.D. 525-531
Rabelink, T.J. 481-488
Rada, I. 373-384
Ragan, C.I. 451-455
Rahman, M.A. 39-45
Randall, M.D. 463-469
Ritchie, B. 281-284
Reglero, A. 301-307
Reiter, S. 191-197
Reyenga, J. 325-331
Rhodes, J. 319-324
Riley, M. 633-639
Robertson, J.D. 611-618
Robson, S.C. 113-117
Rodger, R.S.C. 505-508
Rodrigues De Miranda, J.F. 325-331
Romijn, J.A. 359-365
Roth, E. 625-631
Roth-Merten, A. 625-631
Rubin, P.C. 549-558
Author Index

Rumley, A. 525–531
Ryde, S.J.S. 319–324
Safar, M.E. 533–538
Sagnella, G.A. 293–299
Salim, A.S. 59–64
Samani, N.J. 339–344
Samuels, G.M.R. 265–269
Sauerwein, H.P. 359–365
Sawyer, A.M. 619–624
Scheppach, W. 177–182
Schlüter, H. 17–23
Seekamp, A. 497–504
Settle, S.L. 565–569
Sforza, E. 443–449
Shirley, D.G. 293–299
Simmonds, H.A. 191–197
Simonsen, U. 119–129
Singer, D.R.J. 293–299
Sluiter, W. 385–391
Small, M. 525–531
Smith, J.T.L. 619–624
Smits, P. 413–417
Soares, E.G. 33–37
Soupart, A. 77–84
Stamp, G.W.H. 281–284
Stanford, C.F. 633–639
Stenuit, A. 77–84
Stevens, M.J. 249–256
Stewart, K.N. 9–15
Stifter, S. 47–51
Stock, M.J. 419–426
Storkebaum, W. 17–23
Sturm, J. 497–504
Sudlow, M.F. 353–358
Sugden, A. L. 293–299
Sugimoto, T. 131–136
Suzuki, E. 131–136
Swae, A.J.G. 385–391
Swainson, C.P. 149–154
Swales, J.D. 339–344
Syme, P.D. 509–516
Tamborini, G. 403
Tartar, A. 517–523
Ten Dam, M.A.G.J. 161–166, 325–331
Ten Kate, R.W. 161–166
Thien, T. 325–331, 413–417
Thomas, G.R. 463–469
Thompson, G.N. 345–352
Thomson, I. 333–338
Tokuyama, K. 241–247
Toorn, L.v.D. 219–225
Tovar, D. 373–384
Triger, D.R. 155–160
Tsikas, D. 497–504
Tucker, G.T. 155–160
Urbaniak, S.J. 87–93
Valentini, L. 625–631
Vallance, P. 183–190
van der Dijs, B. 373–384
Van Kamp, G.J. 161–166
van Tits, L.J.H. 325–331
Velo, M. 143–147
Villamediana, L.M. 143–147
Vitale, C. 489–495
Vogt, B. 599–604
Walls, J. 457–462
Walsmley, D. 605–610
Warner, L.C. 475–480
Watkins, P.J. 249–256
Wessels, F. 17–23
West, S.M. 451–455
Wiles, P.G. 605–610
Wilkins, M.R. 565–569
Williams, B. 457–462
Williams, G. 419–426
Wilson, R.C. 65–70, 309–312
Winkler, S. 625–631
Witzel, H. 17–23
Wollersheim, H. 325–331
Wraith, P.K. 353–358
Wright, N.A. 281–284
Yan, Q. 565–569
Yeaman, S.J. 451–455
Zidek, W. 17–23
Zwiers, A. 161–166
Absorption
  aluminium, ranitidine 505–508

Acetate
  colon, fermentation 177–182

Acquired immunodeficiency syndrome
  glucose and fat metabolism, fasting 359–365

Adenine phosphoribosyltransferase deficiency
  orotidine, erythrocytes 191–197

Adenosine
  hypoxia, respiratory control 107–112

Adipose tissue
  amino acid metabolism 471–474
  noradrenaline release, microdialysis 595–598
  glucocorticoid-suppressible
  hyperaldosteronism 1–7*

Adrenaline
  noradrenaline kinetics, \( \beta \)-adrenoceptors 227–233

Adrenoceptors
  intraocular pressure, hypoglycaemia 333–338
  \( \alpha \)-Adrenoceptors
  platelets, Raynaud's phenomenon 325–331
  \( \beta \)-Adrenoceptors
  noradrenaline kinetics, adrenaline 227–233

Ajmaline
  trypanosomiasis (South American),
  electrocardiography 33–37

Alanine
  adipose tissue 471–474

Alcoholism
  erythrocytes, triacylglycerol 313–318

Aldosterone
  exogenous insulin 219–225
  head-out water immersion 475–480
  sodium 293–299
  sodium, potassium-dependent adenosine
  triphosphatase, cortical collecting tubule 599–604

Aldosteronism
  pathogenesis, adrenal zonation 1–7*

Allopurinol
  orotidine, erythrocytes 191–197

Aluminium absorption
  ranitidine 505–508

Ambulatory monitoring
  blood pressure, circadian variation 271–276

Amiloride
  sodium/proton antiport, hypertension 509–516

sodium/proton antiport, leucocytes 95–99

Amino acid metabolism
  adipose tissue 471–474

Androgens
  plasma glucose, postmenopausal women 199–203

Angiotensin II
  glomerular contraction and receptors,
  cirrhosis 143–147
  sodium handling, dopamine 149–154

Angiotensin-converting enzyme
  platelet-activating factor, plasma exudation 241–247

Anthropometry
  resting energy expenditure, chronic cardiac
  failure 633–639

Antimitochondrial antibodies
  primary biliary cirrhosis 451–455

Antioxidants
  exercise 611–618
  \( \alpha \)-Antitrypsin
  deglycosylation, Crohn's disease 517–523

Arginine
  platelets, Raynaud's phenomenon 325–331
  pepsinogens A and C, tubular reabsorption 161–166

Arginine vasopressin
  neutral endopeptidase,
  (\( \ast \))-candoxatrilat 443–449

Arteriovenous selectivity
  drug therapy, vascular tone 183–190*

Atrial natriuretic peptide
  glomerular filtration rate, renal blood flow 131–136
  head-out water immersion 475–480
  messenger RNA, heart failure 285–291
  neutral endopeptidase, (\( \pm \))-candoxatrilat 265–269
  obstructive sleep apnoea, continuous airway
  pressure 443–449
  sodium 293–299

Atrial natriuretic peptide inhibitor
  atrial natriuretic peptide, natriuresis 265–269

Autoantigens
  primary biliary cirrhosis 451–455

Autonomic nervous system
  intraocular pressure, hypoglycaemia 333–338

Bacteria
  gastrin, \( H_2 \)-receptor blockers 281–284

Bangladeshis
  cardiovascular responses 39–45
Subject Index

Bicarbonate
  haemodynamics, metabolic acidosis 47–51
Blood flow
  temperature, diabetic neuropathy 249–256
Blood pressure
  circadian variation, ambulatory monitoring 271–276
  exogenous insulin 219–225
  nerve growth factor, histamine 565–569
Blood transfusion
  sensitization, cyclosporin A 9–15
Blood-perfused hindquarters vascular bed
  pressure/flow relations, endothelial destruction 463–469
Blood-perfused mesenteric vascular bed
  pressure/flow relations, endothelial destruction 463–469
Bone mineral content
  total body calcium, inflammatory bowel disease 319–324
Breast cancer
  tumour protein synthesis 587–593
Breathlessness
  distress, perception 65–70
  perception, reproducibility 309–312
Calcium
  skeletal muscle damage, glutathione 559–564
  (±)-Candoxatrilat neutral endopeptidase, atrial natriuretic peptide 265–269
Captopril
  platelet-activating factor, plasma exudation 241–247
Carbohydrate oxidation
  insulin, injury 25–32
Cardiac filling pressure
  atrial natriuretic peptide, messenger RNA 285–291
Cardiac responses
  ethnicity 39–45
Catabolism
  organ-specific amino acid metabolism, a-ketoglutarate 625–631
Catecholamines
  blood pressure, circadian variation 271–276
  exogenous insulin 219–225
  hypoglycaemia, intracellular pressure 333–338
Central pontine myelinolysis
  hyponatraemia, urea 77–84
Chagas' heart disease
  electrocardiography, ajmaline 33–37
Cholinergic receptors
  intracellular pressure, hypoglycaemia 333–338
Chronic cardiac failure
  resting energy expenditure, indirect calorimetry 633–639
Chronic glomerulonephritis
  proteinuria, atrial natriuretic peptide 131–136
Circadian variation
  blood pressure, ambulatory monitoring 271–276
Cirrhosis
  angiotensin II receptors, glomeruli 143–147
Cold face test
  ethnicity 39–45
Colon
  acetate, fermentation 177–182
Colorectal cancer
  tumour protein synthesis 587–593
Computerized tomography
  emphysema, elastic recoil 353–358
Constant infusion
  insulin, glomerular filtration rate 167–176
Continuous positive airway pressure
  obstructive sleep apnoea, atrial natriuretic peptide 443–449
Contractile activity
  muscle damage, dystrophin 367–371
Cortical ascending limb
  sodium, potassium-dependent adenosine triphosphatase, nephrotic syndrome 599–604
Cortical collecting tubule
  sodium, potassium-dependent adenosine triphosphatase, nephrotic syndrome 599–604
Creatine kinase
  muscle damage, dystrophin 367–371
Crohn's disease
  a-antitrypsin, deglycosylation 517–523
Cyclic AMP
  platelets 549–558
Cyclo-oxygenase inhibition
  pressure/flow relations, blood-perfused mesenteric acid and hindquarters vascular beds 463–469
Cyclosporin A
  blood transfusion, sensitization 9–15
Cysteinyl leukotrienes
  multiple trauma 497–504
Cytosolic free calcium
  platelet membrane fluidity, essential hypertension 205–211
Deep breathing
  ethnicity 39–45
Deglycosylation
  a-antitrypsin, Crohn's disease 517–523
Deoxycorticosterone-acetate
  renal and extra-renal renin messenger RNA 339–344
Depression
  neurotransmitters, postprandial
  hypoglycaemia 373–384
Diabetes
  blood flow, temperature 249–256
  hypoglycaemia, unawareness 583–586
  obesity, noradrenaline 53–58
  thromboxane A2, platelet receptors 101–105
Dialyser clearance
  inorganic sulphate, haemodialysis 489–495
Dialysis
  choline transport, erythrocytes 137–141
Dichloroacetate
  haemodynamics, metabolic acidosis 47–51
Dietary fibre
  colon, acetate 177–182.
Subject Index

Dihydroxyphenylglycol 257-263
Dipyridamole 107-112
Distress 65-70
Dopamine
  glomerular filtration rate, renal blood flow 131-136
  postprandial hypoglycaemia, doxepin 373-384
  sodium handling, angiotensin II 149-154
Doxepin
  neurotransmitters, postprandial hypoglycaemia 373-384
  noradrenaline, neuronal re-uptake 257-263
  hypoxia, respiratory control 65-70
  breathlessness, perception 309-312
Drug infusion
  ischaemia, rabbit skin flaps 235-240
Drug selectivity
  vascular tone, local control 183-190*
Duchenne muscular dystrophy
  muscle damage, contractile activity 367-371
  skeletal muscle damage, glutathione 559-564
Dystrophin
  muscle damage, contractile activity 367-371

Echocardiography
  pulmonary haemodynamics, pregnancy 113-117
Elastic recoil
  emphysema, computerized tomography 353-358
Electrocardiography
  trypanosomiasis (South American), ajmaline 33-37
Emphysema
  computerized tomography, elastic recoil 353-358
Endogenous ouabain-displacing factor
  sodium, potassium-dependent adenosine triphosphatase, cortical collecting tubule 599-604
Endothelial destruction
  pressure/flow relations, blood-perfused mesenteric and hindquarters vascular beds 463-469
Endothelium-dependent relaxation
  blood-perfused mesenteric vascular bed, hypertension 463-469
Endothelium-derived relaxing factor
  kidney, hypertension 435-441
Energy production
  insulin, injury 25-32
Enkephalinase
  platelet-activating factor, plasma exudation 241-247
Errors of analysis
  insulin, glomerular filtration rate 167-176
Erythrocytes
  choline transport, uraemia 137-141
  orotidine, allopurinol 191-197
  triacylglycerol, alcoholism 313-318
Essential hypertension
  humoral factor, isolated perfused kidney 17-23
  kidney 401-402
  platelet membrane fluidity, cytosolic free calcium 205-211
Ethanol
  nitrogen balance, urinary analysis 393-400

Ethnicity
  cardiovascular responses 39-45
Europeans
  cardiovascular responses 39-45
Exercise
  antioxidants, vitamins 611-618
  breathlessness, perception 309-312
Familial juvenile gouty nephropathy
  orotidine, erythrocytes 191-197
Fasting
  glucose and fat metabolism, acquired immunodeficiency syndrome 359-365
Fat oxidation
  insulin, injury 25-32
Females
  twenty-four hour intragastric acidity and plasma gastrin 619-624
Fermentation
  colon, acetate 177-182
Fibrinolysis
  hypoglycaemia 525-531
Fluorescence depolarization
  platelet membrane fluidity, essential hypertension 205-211
Forearm blood flow
  wrist cuff 413-417
Forearm glucose uptake
  insulin, injury 25-32
Forearm muscle
  amino acid metabolism 471-474
  resting energy expenditure, chronic cardiac failure 633-639
Free radicals
  skeletal muscle damage, glutathione 559-564
  skin ischaemia, thromboxane 235-240
Free water clearance
  head-out water immersion, prostaglandins 481-488
Fructose 2,6-bisphosphate
  hepatic phosphofructokinase-1, sepsis 213-217
Function
  small arteries, hypercholesterolaemia 119-129
Furaptra
  magnesium, lectins 539-547
Gastric acid
  gastrin, bacteria 281-284
Gastric mucosal injury
  vagal adrenergic stimulation, 5-hydroxytryptamine 59-64
Gastrin
  bacteria, H2-receptor blockers 281-284
Gene expression
  renin, hypertension 339-344
Glomerular contraction
  angiotensin II, cirrhosis 143-147
Glomerular filtration rate
  atrial natriuretic peptide, dopamine 131-136
  constant infusion of inulin, reproducibility 167-176
Glomeruli
angiotensin II receptors, cirrhosis 143–147
Glucocorticoid-suppressible hyperaldosteronism
pathogenesis, adrenal zonation 1–7*
Glucose
androgens, postmenopausal women 199–203
renal handling, X-linked hypophosphataemic
rickets 71–76
Glucose metabolism
acquired immunodeficiency syndrome, fasting 359–365
insulin, injury 25–32
Glutamate
adipose tissue 471–474
organ-specific metabolism, α-ketoglutarate 625–631
Glutamine
Haemodialysis
ionized calcium, inorganic sulphate 489–495
Haemodynamics
dichloroacetate, bicarbonate 47–51
Haemostasis
hypoglycaemia 525–531
Head-out water immersion
renal haemodynamics, prostaglandins 481–488
sodium intake 475–480
Heart
cell growth and function, proto-oncogenes 405–411*
Heart failure
atrial natriuretic peptide, messenger RNA 285–291
Highly sensitized patient
lymphocytotoxic antibodies, HLA 87–93
Histamine
nerve growth factor, blood pressure 565–569
HLA
lymphocytotoxic antibodies, renal transplantation 87–93
H₂-receptor blockers
gastrin, bacteria 281–284
Humoral factor
isolated perfused kidney, essential hypertension 17–23
Hydrogen peroxide
immunoglobulin G, rheumatoid arthritis 385–391
5-Hydroxytryptamine
gastric mucosal injury 59–64
postprandial hypoglycaemia, doxepin 373–384
Hyperaemia
insulin-dependent diabetes, neuropathy 605–610
Hypercholesterolaemia
small arteries, structure and function 119–129
Hypertension
endothelium-dependent relaxation, blood-perfused mesenteric vascular bed 463–469
humoral factor, isolated perfused kidney 17–23
kidney 401–402
kidney, endothelium-derived relaxing factor 435–441
platelet membrane fluidity, cytosolic free calcium 205–211
renal and extra-renal renin messenger RNA 339–344
sodium/proton antiport 509–516
working hypotheses 533–538*
Hypertonic saline
hyponatraemia, central pontine myelinolysis 77–84
Hypoglycaemia
haemostasis, fibrinolysis and haemorheology 523–531
intraocular pressure, autonomic nervous system 333–338
neurotransmitters, stress 373–384
unawareness, posture 583–586
Hyponatraemia
urea, hypertonic saline 77–84
Hypophosphataemia
renal glucose handling 71–76
Hypoproteinaemia
renal function 427–433
Hypothalamus
peptides, obesity 419–426
vagal adrenergic stimulation, gastric mucosal injury 59–64
Hypotheses
clinical hypertension 533–538*
Hypoxia
respiratory control, adenosine 107–112
Immunoglobulin G
respiratory burst, rheumatoid arthritis 385–391
Indirect calorimetry
resting energy expenditure, chronic cardiac failure 633–639
Indocyanine Green pharmacokinetics, liver disease 155–160
Inflammatory bowel disease
total body calcium, bone mineral content 319–324
Injury
insulin, glucose and fat metabolism 25–32
insulin-dependent diabetes, neuropathy 605–610
Inorganic sulphate
ionized calcium, haemodialysis 489–495
Insulin
glucose and fat metabolism, injury 25–32
hypoglycaemia, intraocular pressure 333–338
renal and cardiovascular effects 219–225
renal glucose handling, X-linked hypophosphataemic rickets 71–76
whole-body protein turnover, methodologies 345–352
Insulin-dependent diabetes hyperaemia, neuropathy 605–610
Intestinal disease α1-antitrypsin, deglycosylation 517–523
Intraocular pressure hypoglycaemia, autonomic nervous system 333–338
Insulin constant infusion, glomerular infiltration rate 167–176
Ionized calcium haemodialysis, inorganic sulphate 489–495
Ion-transport systems rate constant 85–86
Ischaemia rabbit skin flaps, thromboxane 235–240
Isolated perfused kidney humoral factor, essential hypertension 17–23
Isotopes safety in clinical research 277–280
Kallikrein hypoproteinaemia 427–433
α-Ketoglutarate organic-specific amino acid metabolism, catabolism 625–631
Kidney endothelium-derived relaxing factor, hypertension 435–441
essential hypertension 401–402
renin messenger RNA, hypertension 339–344
Laser Doppler flowmetry hyperaemia, insulin-dependent diabetes 605–610
Lectins magnesium, lymphocytes 539–547
Lesch–Nyhan syndrome orotidine, erythrocytes 191–197
Leucine whole-body protein turnover, insulin 345–352
Leucocytes pH, sodium 95–99
Lipogenesis total parenteral nutrition, twenty-four hour energy expenditure 571–582
Lipolysis tumour necrosis factor, acquired immunodeficiency syndrome 359–365
Lithium head-out water immersion, prostaglandins 481–488
Liver disease indocyanine green, pharmacokinetics 155–160
Lung resistance platelet-activating factor, peptidases 241–247
Lymphocytes β2-adrenoceptors, Raynaud’s phenomenon 325–331
magnesium, lectins 539–547
Lymphocytotoxic antibodies HLA, highly sensitized patient 87–93
Lysine pepsinogens A and C, tubular reabsorption 161–166
Magnesium lymphocytes, lectins 539–547
Males twenty-four hour intragastric acidity and plasma gastrin 619–624
M2 autoantigens primary biliary cirrhosis 451–455
Membrane fluidity platelets, essential hypertension 205–211
Membrane transport choline, erythrocytes 137–141
Messenger RNA atrial natriuretic peptide, heart failure 285–291
renin, hypertension 339–344
Metabolic acidosis dichloroacetate, haemodynamics 47–51
muscle metabolism, 3-methylhistidine 457–462
3-Methylhistidine muscle metabolism, metabolic acidosis 457–462
Microdialysis noradrenaline, skeletal muscle 595–598
Multiple trauma cysteinyl leukotrienes 497–504
Muscle damage contractile activity, dystrophin 367–371
Muscle metabolism metabolic acidosis 457–462
Myocardial cells growth and function, proto-oncogenes 405–411
Natriuresis atrial natriuretic peptide, atriopeptidase inhibitor 265–269
Nephrotic syndrome cortical collecting tubule, sodium, potassium-dependent adenosine triphosphatase 599–604
Nerve growth factor blood pressure, histamine 565–569
Neuregulin B hypothalamic obesity 419–426
Neuropathic pain noradrenaline, sympathetic nervous system 257–263
Neuropathy blood flow, temperature 249–256
insulin-dependent diabetes, hyperaemia 605–610
Neuropeptide Y hypothalamic obesity 419–426
Neurotransmitters postprandial hyperglycaemia, stress 373–384
Neutral endopeptidase (±) -candoxatrilat, atrial natriuretic peptide 265–269
Nitrogen balance ethanol, urinary analysis 393–400
Nitrogen excretion metabolic acidosis 457–462
Subject Index

Non-endemic goitre
thyroglobulin, thyroid peroxidase 301–307

Noradrenaline
neuronal re-uptake, sympathetic nervous system 257–263
obesity, diabetes 53–58
resting energy expenditure, chronic cardiac failure 633–639
Noradrenaline/adrenaline ratio
postprandial hypoglycaemia, doxepin 373–384
Noradrenaline kinetics
adrenaline, β-adrenoceptors 227–233

Nuclear-magnetic-resonance spectroscopy
urinary analysis, ethanol 393–400

Obesity
peptides, hypothalamus 419–426
sympathetic nervous system, diabetes 53–58

Obstructive sleep apnoea
atrial natriuretic peptide, continuous positive airway pressure 443–449

Organ-specific amino acid metabolism
oroticil
organ-specific amino acid metabolism, catabolism 625–631
Orotidine
erythrocytes, allopurinol 191–197

Osteoporosis
bone mineral content, inflammatory bowel disease 319–324

Oxypurinol-7-riboside
oroticil, erythrocytes 191–197

Pepsinogen A
tubular reabsorption, dibasic amino acids 161–166

Pepsinogen C
tubular reabsorption, dibasic amino acids 161–166

Peptides
hypothalamus, obesity 419–426

Perception
breathlessness, distress 65–70
breathlessness, reproducibility 309–312
pH
leucocytes, amiloride 95–99

Pharmacokinetics
Indocyanine Green, liver disease 155–160
Phenylalanine
whole-body protein turnover, insulin 345–352
Phosphofructokinase-1
hepatic fructose 2,6-bisphosphate, sepsis 213–217
Phospholipases
muscle damage, dystrophin 367–371
Phosphoramidon
platelet-activating factor, plasma exudation 241–247

Platelet receptors
thromboxane A2, diabetes 101–105
Platelet-activating factor
thromboxane A2, plasma exudation, peptidases 241–247
Platelets
α1-adrenoceptors, Raynaud's phenomenon 325–331
cyclic AMP, pre-eclampsia 549–558
membrane fluidity, essential hypertension 205–211
Polymorphonuclear leucocytes
respiratory burst, immunoglobulin G 385–391
Postprandial hypoglycaemia
neurotransmitters, stress 373–384

Posture
hypoglycaemia, unawareness 583–586

Pre-eclampsia
platelets, cyclic AMP 549–558

Pregnancy
platelets, cyclic AMP 549–558
pulmonary haemodynamics, echocardiography 113–117

Pressure/flow relations
endothelial destruction, blood-perfused mesenteric and hindquarters vascular beds 463–469

Primary biliary cirrhosis
M2 autoantigens 451–455

Prostaglandin E2
muscle damage, dystrophin 367–371

Prostaglandins
renal haemodynamics, head-out water immersion 481–488

Protein excretion
chronic glomerulonephritis, atrial natriuretic peptide 131–136

Protein synthesis
tumours 587–593

Protein turnover
insulin, methodologies 345–352

Proto-oncogenes
myocardial cells, growth and function 405–411*
Pulmonary echocardiography
pregnancy, echocardiography 113–117

Radioenzymic assay
noradrenaline, microdialysis 595–598

Ranitidine
aluminium absorption 505–508

Rate constant
ambiguity 85–86
Raynauld's phenomenon
blood cells, adrenoceptors 325–331

Receptors
angiotensin II, cirrhosis 143–147
thromboxane A2, diabetes 101–105

Renal blood flow
atrial natriuretic peptide, dopamine 131–136

Renal clearance
constant infusion of inulin, reproducibility 167–176
pepsinogens A and C, dibasic amino acids 161–166
Subject Index

Renal failure
- orotidine, erythrocytes 191–197

Renal function
- angiotensin II, cirrhosis 143–147
- hypoproteinaemia 427–433

Renal haemodynamics
- angiotensin II, dopamine 149–154
- head-out water immersion, prostaglandins 481–488

Renal handling
- glucose, X-linked hypophosphataemic rickets 71–76

Renal transplantation
- lymphocytotoxic antibodies, HLA 87–93

Renin
- exogenous insulin 219–225
- gene expression, hypertension 339–344

Renovascular hypertension
- renal and extra-renal renin messenger RNA 339–344

Reproducibility
- perception, breathlessness 309–312

Respiratory burst
- immunoglobulin G, rheumatoid arthritis 385–391

Respiratory control
- hypoxia, adenosine 107–112

Resting energy expenditure
- indirect calorimetry, chronic cardiac failure 633–639

Rheumatoid arthritis
- respiratory burst, immunoglobulin G 385–391

Safety
- stable isotopes 277–280*

Sensitization
- blood transfusion, cyclosporin A 9–15

Sepsis
- hepatic phosphofructokinase-1 and fructose 2,6-bisphosphate 213–217

Sex-related differences
- twenty-four hour intragastric acidity and plasma gastrin 619–624

Short-chain fatty acids
- colon, fermentation 177–182

Skeletal muscle
- noradrenaline release, microdialysis 595–598

Skeletal muscle cells
- sodium/proton antiport, hypertension 509–516

Skeletal muscle damage
- glutathione, free radicals 559–564

Skin flaps
- ischaemia, thromboxane 235–240

Small arteries
- function and structure, hypercholesterolaemia 119–129

Sodium
- aldosterone, atrial natriuretic peptide 293–299

Sodium excretion
- exogenous insulin 219–225
- hypoproteinaemia 427–433

Sodium handling
- angiotensin II, dopamine 149–154

Sodium intake
- head-out water immersion 475–480

Sodium, potassium-dependent adenosine triphosphatase
cortical collecting tubule, nephrotic syndrome 599–604

Sodium/proton antiport
- hypertension 509–516
- leucocytes, amiloride 95–99

Specific acylation
- triacylglycerol, erythrocytes 313–318

Stable isotopes
- safety in clinical research 277–280 *

Stress
- neurotransmitters, postprandial
- hypoglycaemia 373–384

Structure
- small arteries, hypercholesterolaemia 119–129

Superoxide
- immunoglobulin G, rheumatoid arthritis 385–391

Sympathetic nervous system
- noradrenaline, neuronal re-uptake 257–263
- obesity, diabetes 53–58

Temperature
- blood flow, diabetic neuropathy 249–256

Theophylline
- hypoxia, respiratory control 107–112

Thrombin
- platelet membrane fluidity, essential hypertension 205–211

Thromboxane
- skin ischaemia, free radicals 235–240

Thromboxane A2
- platelet receptors, diabetes 101–105

Thyroglobulin
- thyroid peroxidase, non-endemic goitre 301–307

Total body calcium
- bone mineral content, inflammatory bowel disease 319–324

Total body clearance
- constant infusion of inulin, reproducibility 167–176

Total parenteral nutrition
- twenty-four hour energy expenditure, lipogenesis 571–582

Triacylglycerol
crystalline, alcoholism 313–318
- tumour necrosis factor, acquired immunodeficiency syndrome 359–365

Trypanosomiasis (South American)
electrocardiography, ajmaline 33–37

Tubular handling
- pepsinogens A and C, dibasic amino acids 161–166
- tumour necrosis factor
- triacylglycerol, acquired immunodeficiency syndrome 359–365

Tumours
- protein synthesis 587–593

Twenty-four hour energy expenditure
- total parenteral nutrition, lipogenesis 571–582
Subject Index

Twenty-four hour intragastric acidity  sex-related differences  619–624
Twenty-four hour plasma gastrin  sex-related differences  619–624
Tryptamine  noradrenaline, skeletal muscle  595–598

Unawareness  hypoglycaemia, posture  583–586
Uraemia  choline transport, erythrocytes  137–141
Urea  hyponatraemia, central pontine myelinolysis  77–84
Urinary analysis  ethanol, nuclear-magnetic-resonance spectroscopy  393–400
Urinary leukotriene E_4  multiple trauma  497–504

Vagal adrenergic stimulation  gastric mucosal injury, 5-hydroxytryptamine  59–64
Valsalva manoeuvre  ethnicity  39–45
Vascular resistance  humoral factor, isolated perfused kidney  17–23
Vascular response  ethnicity  39–45

Vascular smooth muscle cells  sodium/proton antiport, hypertension  509–516
Vascular tone  local control, drug selectivity  183–190
Vasoconstriction  gastric mucosa, 5-hydroxytryptamine  59–64
Vasodilatation  kidney, hypertension  435–441
Viscosity  hypoglycaemia  525–531
Vitamins  exercise  611–618

Whole-body protein turnover  insulin, methodologies  345–352
Women  androgens, plasma glucose  199–203
Wrist cuff  forearm blood flow  413–417

X-linked hypophosphataemic rickets  renal glucose handling  71–76
Zucker rat  peptides, hypothalamus  419–426