

Index of Authors

- ADELEKAN Delana A. & THURNHAM David I. The influence of riboflavin deficiency on absorption and liver storage of iron in the growing rat. 171
- ADRON J.W. *see* BELL J.G., ADRON J.W. & COWEY C.B. Effect of selenium deficiency on hydroperoxide-stimulated release of glutathione from perfused liver of rainbow trout (*Salmo gairdneri*). 421
- AITCHISON E.M., GILL M., DHANOVA M.S. & OSBOURN D.F. The effect of digestibility and forage species on the removal of digesta from the rumen and the voluntary intake of hay by sheep. 463
- AITCHISON E.M., GILL M. & OSBOURN D.F. The effect of supplementation with maize starch and level of intake of perennial ryegrass (*Lolium perenne* cv. Endura) hay on the removal of digesta from the rumen of sheep. 477
- ALLSOP T.F. *see* BARRY T.N., ALLSOP T.F. & REDEKOPP Carolyn The role of condensed tannins in the nutritional value of *Lotus pedunculatus* for sheep. 5. Effects on the endocrine system and on adipose tissue metabolism. 607
- ANDERSEN L.M. *see* BATTERHAM E.S., ANDERSEN L.M., LOWE R.F. & DARNELL R.E. Nutritional value of lupin (*Lupinus albus*)-seed meal for growing pigs: availability of lysine, effect of autoclaving and net energy content. 645
- ANDERSSON Henrik *see* TORNQVIST Hans, RISSANEN Aila & ANDERSSON Henrik Balance studies in patients with intestinal resection: how long is enough? 11
- AOYAMA Yoritaka *see* NAGAOKA Satoshi, KATO Mitsuhiro, AOYAMA Yoritaka & YOSHIDA Akira Comparative studies on the hypercholesterolaemia induced by excess dietary tyrosine or polychlorinated biphenyls in rats. 509
- ARIELI A. Effect of glucose on fermentation heat in sheep rumen fluid in vitro. 305
- BACH KNUDSEN K.E. *see* EGGUM B.O., BEAMES R.M. & BACH KNUDSEN K.E. The effect of varying crude protein level and the proportions of fibre in diets containing a mixture of meat-and-bone meal and wheat bran as the only protein source on nitrogen balance indices and energy digestibility in the rat. 429
- BARRY T.N., ALLSOP T.F. & REDEKOPP Carolyn The role of condensed tannins in the nutritional value of *Lotus pedunculatus* for sheep. 5. Effects on the endocrine system and on adipose tissue metabolism. 607
- BATES C.J. *see* VILLARD Laurence & BATES C.J. Carotene dioxygenase (*EC* 1.13.11.21) activity in rat intestine: effects of vitamin A deficiency and of pregnancy. 115
- BATTERHAM E.S., ANDERSEN L.M., LOWE R.F. & DARNELL R.E. Nutritional value of lupin (*Lupinus albus*)-seed meal for growing pigs: availability of lysine, effect of autoclaving and net energy content. 645
- BAYOUMI Riad A. *see* SALIH Eltayeb Y., ZEIN Asma A. & BAYOUMI Riad A. The effect of oral contraceptives on the apparent vitamin B₆ status in some Sudanese women. 363
- BEAMES R.M. *see* EGGUM B.O., BEAMES R.M. & BACH KNUDSEN K.E. The effect of varying crude protein level and the proportions of fibre in diets containing a mixture of meat-and-bone meal and wheat bran as the only protein source on nitrogen balance indices and energy digestibility in the rat. 429
- BEEVER D.E., LOSADA H.R., CAMMELL S.B., EVANS R.T. & HAINES M.J. Effect of forage species and season on nutrient digestion and supply in grazing cattle. 209
- BEEVER D.E., DHANOVA M.S., LOSADA H.R., EVANS R.T., CAMMELL S.B. & FRANCE J. The effect of forage species and stage of harvest on the processes of digestion occurring in the rumen of cattle. 439
- BELL J.G., ADRON J.W. & COWEY C.B. Effect of selenium deficiency on hydroperoxide-stimulated release of glutathione from perfused liver of rainbow trout (*Salmo gairdneri*). 421
- BENDER David A. *see* MCCREANOR Gwyn & BENDER David A. The metabolism of high intakes of tryptophan, nicotinamide and nicotinic acid in the rat. 577
- BLACK A.E., WILES S.J. & PAUL A.A. The nutrient intakes of pregnant and lactating mothers of good socio-economic status in Cambridge, UK: some implications for recommended daily allowances of minor nutrients. 59
- BOLTON Colin H. *see* BURR Michael L., FEHLY Ann M., BUTLAND Barbara K., BOLTON Colin H. & EASTHAM Robert D. Alcohol and high-density-lipoprotein cholesterol: a randomized controlled trial. 81

- Boulze Danièle *see* Lacombe Christiane R., Corraze Geneviève R., Nibelink Maryse M., Boulze Danièle, Douste-Blazy Philippe & Camare Rita Effects of a low-energy diet associated with egg supplementation on plasma cholesterol and lipoprotein levels in normal subjects: results of a cross-over study. 561
- Bradley A.K. *see* Tomkins A.M., Dunn D.T., Hayes R.J. & Bradley A.K. Seasonal variations in the nutritional status of urban Gambian children. 533
- Breves G. *see* Michalowski T., Harmeyer J. & Breves G. The passage of protozoa from the reticulo-rumen through the omasum of sheep. 625
- Broster W.H. *see* Sutton J.D., Hart I.C., Broster W.H., Elliott Rosemary J. & Schuller E. Feeding frequency for lactating cows: effects on rumen fermentation and blood metabolites and hormones. 181
- Brown Marilyn R. *see* Forbes Gilbert B., Brown Marilyn R., Welle Stephen L. & Lipinski Barbara A. Deliberate overfeeding in women and men: energy cost and composition of the weight gain. 1
- Bryant M.J. *see* Symonds M.E., Bryant M.J. & Lomax M.A. The effect of shearing on the energy metabolism of the pregnant ewe. 635
- Burr Michael L., Fehily Ann M., Butland Barbara K., Bolton Colin H. & Eastham Robert D. Alcohol and high-density-lipoprotein cholesterol: a randomized controlled trial. 81
- Butland Barbara K. *see* Burr Michael L., Fehily Ann M., Butland Barbara K., Bolton Colin H. & Eastham Robert D. Alcohol and high-density-lipoprotein cholesterol: a randomized controlled trial. 81
- Buttery P.J. *see* Sharpe P.M., Buttery P.J. & Haynes N.B. The effect of manipulating growth in sheep by diet or anabolic agents on plasma cortisol and muscle glucocorticoid receptors. 289
- Camare Rita *see* Lacombe Christiane R., Corraze Geneviève R., Nibelink Maryse M., Boulze Danièle, Douste-Blazy Philippe & Camare Rita Effects of a low-energy diet associated with egg supplementation on plasma cholesterol and lipoprotein levels in normal subjects: results of a cross-over study. 561
- Cammell S.B. *see* BEEVER D.E., LOSADA H.R., CAMMELL S.B., EVANS R.T. & HAINES M.J. Effect of forage species and season on nutrient digestion and supply in grazing cattle. 209
- Cammell S.B. *see* BEEVER D.E., DHANOA M.S., LOSADA H.R., EVANS R.T., CAMMELL S.B. & FRANCE J. The effect of forage species and stage of harvest on the processes of digestion occurring in the rumen of cattle. 439
- Clark Michael G. *see* Rattigan Stephen, Howe Peter R.C. & Clark Michael G. The effect of a high-fat diet and sucrose drinking option on the development of obesity in spontaneously hypertensive rats. 73
- Clausen Torben *see* Kjeldsen Keld, Everts Maria Elisabeth & Clausen Torben Effects of semi-starvation and potassium deficiency on the concentration of [³H]ouabain-binding sites and sodium and potassium contents in rat skeletal muscle. 519
- Cole T.J. *see* Stephen Alison M., Wiggins H.S., Englyst H.N., Cole T.J., Wayman B.J. & Cummings J.H. The effect of age, sex and level of intake of dietary fibre from wheat on large-bowel function in thirty healthy subjects. 349
- Conway S.P., Rawson I., Dear P.R.F., Shires S.E. & Kelleher J. The early anaemia of the premature infant: is there a place for vitamin E supplementation? 105
- Corraze Geneviève R. *see* Lacombe Christiane R., Corraze Geneviève R., Nibelink Maryse M., Boulze Danièle, Douste-Blazy Philippe & Camare Rita Effects of a low-energy diet associated with egg supplementation on plasma cholesterol and lipoprotein levels in normal subjects: results of a cross-over study. 561
- Cossack Zafrallah T. Somatomedin-C and zinc status in rats as affected by Zn, protein and food intake. 163
- Cowey C.B. *see* Bell J.G., Adron J.W. & Cowey C.B. Effect of selenium deficiency on hydroperoxide-stimulated release of glutathione from perfused liver of rainbow trout (*Salmo gairdneri*). 421
- Cummings J.H. *see* Stephen Alison M., Wiggins H.S., Englyst H.N., Cole T.J., Wayman B.J. & Cummings J.H. The effect of age, sex and level of intake of dietary fibre from wheat on large-bowel function in thirty healthy subjects. 349
- Cunnane Stephen C., McAdoo Kelly R. & Horrobin David F. n-3 Essential fatty acids decrease weight gain in genetically obese mice. 87
- Darnell R.E. *see* BATTERHAM E.S., ANDERSEN L.M., LOWE R.F. & DARNELL R.E. Nutritional value of lupin (*Lupinus albus*)-seed meal for growing pigs: availability of lysine, effect of autoclaving and net energy content. 645

Index of Authors

673

- DAVIS S.R. *see* SCHAEFER A.L., DAVIS S.R. & HUGHSON G.A. Estimation of tissue protein synthesis in sheep during sustained elevation of plasma leucine concentration by intravenous infusion. 281
- DEAR P.R.F. *see* CONWAY S.P., RAWSON I., DEAR P.R.F., SHIRES S.E. & KELLEHER J. The early anaemia of the premature infant: is there a place for vitamin E supplementation? 105
- DE GROOT Lisette *see* VAN ES A.J.H., DE GROOT Lisette & VOGT J.E. Energy balances of eight volunteers fed on diets supplemented with either lactitol or saccharose. 545
- DELLOW D. *see* LENG R.A., DELLOW D. & WAGHORN G. Dynamics of large ciliate protozoa in the rumen of cattle fed on diets of freshly cut grass. 455
- DHANO A M.S. *see* BEEVER D.E., DHANO A M.S., LOSADA H.R., EVANS R.T., CAMMELL S.B. & FRANCE J. The effect of forage species and stage of harvest on the processes of digestion occurring in the rumen of cattle. 439
- DHANO A M.S. *see* AITCHISON E.M., GILL M., DHANO A M.S. & OSBOURN D.F. The effect of digestibility and forage species on the removal of digesta from the rumen and the voluntary intake of hay by sheep. 463
- DONANGELO Carmen M. & EGGUM B.O. Comparative effects of wheat bran and barley husk on nutrient utilization in rats. 2. Zinc, calcium and phosphorus. 269
- DORWOOD Patricia M. *see* REEDS Peter J., HAY Susan M., DORWOOD Patricia M. & PALMER Robert M. Stimulation of muscle growth by clenbuterol: lack of effect on muscle protein biosynthesis. 249
- DOUSTE-BLAZY Philippe *see* LACOMBE Christiane R., CORRAZE Geneviève R., NIBBELINK Maryse M., BOULZE Danièle, DOUSTE-BLAZY Philippe & CAMARE Rita Effects of a low-energy diet associated with egg supplementation on plasma cholesterol and lipoprotein levels in normal subjects: results of a cross-over study. 561
- DUERRE John A. & WALLWORK James C. Methionine metabolism in isolated perfused livers from rats fed on zinc-deficient and restricted diets. 395
- DUGGAN Maureen B. & MILNER R.D.G. Energy metabolism in healthy black Kenyan children. 317
- DUNN D.T. *see* TOMKINS A.M., DUNN D.T., HAYES R.J. & BRADLEY A.K. Seasonal variations in the nutritional status of urban Gambian children. 533
- EASTHAM Robert D. *see* BURR Michael L., FEHILY Ann M., BUTLAND Barbara K., BOLTON Colin H. & EASTHAM Robert D. Alcohol and high-density-lipoprotein cholesterol: a randomized controlled trial. 81
- EGGUM B.O. *see* DONANGELO Carmen M. & EGGUM B.O. Comparative effects of wheat bran and barley husk on nutrient utilization in rats. 2. Zinc, calcium and phosphorus. 269
- EGGUM B.O., BEAMES R.M. & BACH KNUDSEN K.E. The effect of varying crude protein level and the proportions of fibre in diets containing a mixture of meat-and-bone meal and wheat bran as the only protein source on nitrogen balance indices and energy digestibility in the rat. 429
- EISENBERG J. *see* ERNST E., PIETSCH L., MATRAI A. & EISENBERG J. Blood rheology in vegetarians. 555
- ELLIOTT Rosemary J. *see* SUTTON J.D., HART I.C., BROSTER W.H., ELLIOTT Rosemary J. & SCHULLER E. Feeding frequency for lactating cows: effects on rumen fermentation and blood metabolites and hormones. 181
- ENGLYST H.N. *see* STEPHEN Alison M., WIGGINS H.S., ENGLYST H.N., COLE T.J., WAYMAN B.J. & CUMMINGS J.H. The effect of age, sex and level of intake of dietary fibre from wheat on large-bowel function in thirty healthy subjects. 349
- ERNST E., PIETSCH L., MATRAI A. & EISENBERG J. Blood rheology in vegetarians. 555
- EVANS R.T. *see* BEEVER D.E., LOSADA H.R., CAMMELL S.B., EVANS R.T. & HAINES M.J. Effect of forage species and season on rumen digestion and supply in grazing cattle. 209
- EVANS R.T. *see* BEEVER D.E., DHANO A M.S., LOSADA H.R., EVANS R.T., CAMMELL S.B. & FRANCE J. The effect of forage species and stage of harvest on the processes of digestion occurring in the rumen of cattle. 439
- EVERTS Maria Elisabeth *see* KJELDSEN Keld, EVERTS Maria Elisabeth & CLAUSEN Torben Effects of semi-starvation and potassium deficiency on the concentration of [³H]ouabain-binding sites and sodium and potassium contents in rat skeletal muscle. 519
- FAICHNEY G.J. *see* NEUTZE S.A., KELLAWAY R.C. & FAICHNEY G.J. Kinetics of nitrogen transfer across the rumen wall of sheep given a low-protein roughage. 497
- FEHILY Ann M. *see* BURR Michael L., FEHILY Ann M., BUTLAND Barbara K., BOLTON Colin H. & EASTHAM Robert D. Alcohol and high-density-lipoprotein cholesterol: a randomized controlled trial. 81
- FERREL C.L., KOONG L.J. & NIENABER J.A. Effect of previous nutrition on body composition and maintenance energy costs of growing lambs. 595

- FLETCHER J.M. Effects of adrenalectomy before weaning in the genetically obese Zucker rat (*fa/fa*). 141
- FONTAINE Nicole *see* POINTILLART A., FONTAINE Nicole & THOMASSET Monique Effects of vitamin D on calcium regulation in vitamin-D-deficient pigs given a phytate-phosphorus diet. 661
- FORBES Gilbert B., BROWN Marilyn R., WELLE Stephen L. & LIPINSKI Barbara A. Deliberate overfeeding in women and men: energy cost and composition of the weight gain. 1
- FORDYCE R.A. *see* PARTRIDGE G.G., LOBLEY G.E. & FORDYCE R.A. Energy and nitrogen metabolism of rabbits during pregnancy, lactation and concurrent pregnancy and lactation. 199
- FORSBERG Neil *see* RUSSELL James B. & FORSBERG Neil Production of tricarballic acid by rumen microorganisms and its potential toxicity in ruminant tissue metabolism. 153
- FRANCE J. *see* BEEVER D.E., DHANOA M.S., LOSADA H.R., EVANS R.T., CAMMELL S.B. & FRANCE J. The effect of forage species and stage of harvest on the processes of digestion occurring in the rumen of cattle. 439
- GIBSON M. *see* LIGHT I.M. & GIBSON M. Percentage body fat and prevalence of obesity in a UK offshore population 97
- GILL M. *see* AITCHISON E.M., GILL M., DHANOA M.S. & OSBOURN D.F. The effect of digestibility and forage species on the removal of digesta from the rumen and the voluntary intake of hay by sheep. 463
- GILL M. *see* AITCHISON E.M., GILL M. & OSBOURN D.F. The effect of supplementation with maize starch and level of intake of perennial ryegrass (*Lolium perenne* cv. Endura) hay on the removal of digesta from the rumen of sheep. 477
- GODWIN Ian R. & WILLIAMS Vernon J. Effects of intraruminal sodium chloride infusion on rumen and renal nitrogen and electrolyte dynamics in sheep. 379
- HAINES M.J. *see* BEEVER D.E., LOSADA H.R., CAMMELL S.B., EVANS R.T. & HAINES M.J. Effect of forage species and season on nutrient digestion and supply in grazing cattle. 209
- HARMEYER J. *see* MICHALOWSKI T., HARMEYER J. & BREVES G. The passage of protozoa from the reticulo-rumen through the omasum of sheep. 625
- HART I.C. *see* SUTTON J.D., HART I.C., BROSTER W.H., ELLIOTT Rosemary J. & SCHULLER E. Feeding frequency for lactating cows: effects on rumen fermentation and blood metabolites and hormones. 181
- HARTMANN P.E. *see* SAINT L., MAGGIORE P. & HARTMANN P.E. Yield and nutrient content of milk in eight women breast-feeding twins and one woman breast-feeding triplets. 49
- HAY Susan M. *see* REEDS Peter J., HAY Susan M., DORWOOD Patricia M. & PALMER Robert M. Stimulation of muscle growth by clenbuterol: lack of effect on muscle protein biosynthesis. 249
- HAYES R.J. *see* TOMKINS A.M., DUNN D.T., HAYES R.J. & BRADLEY A.K. Seasonal variations in the nutritional status of urban Gambian children. 533
- HAYNES N.B. *see* SHARPE P.M., BUTTERY P.J. & HAYNES N.B. The effect of manipulating growth in sheep by diet or anabolic agents on plasma cortisol and muscle glucocorticoid receptors. 289
- HERMUS R.J.J. *see* VAN DOKKUM W., WESSTRA Anneke, LUYKEN R. & HERMUS R.J.J. The effects of a high-animal- and a high-vegetable-protein diet on mineral balance and bowel function of young men. 341
- HILL R. *see* VINCENT Isobel C., WILLIAMS H.L.I. & HILL R. Effects of sodium intake on lactation and Na levels in body fluids of Blackface ewes. 193
- HORROBIN David F. *see* CUNNANE Stephen C., MCADOO Kelly R. & HORROBIN David F. n-3 Essential fatty acids decrease weight gain in genetically obese mice. 87
- HOWE Peter R.C. *see* RATTIGAN Stephen, HOWE Peter R.C. & CLARK Michael G. The effect of a high-fat diet and sucrose drinking option on the development of obesity in spontaneously hypertensive rats. 73
- HUGHSON G.A. *see* SCHAEFER A.L., DAVIS S.R. & HUGHSON G.A. Estimation of tissue protein synthesis in sheep during sustained elevation of plasma leucine concentration by intravenous infusion. 281
- JOUANY J.P. *see* USHIDA K., JOUANY J.P. & THIVEND P. Role of rumen protozoa in nitrogen digestion in sheep given two isonitrogenous diets. 407
- KAGGWA Jane S.N. The effect of protein and energy deficiency on skin glycosaminoglycan levels in the rat. 329
- KATO Mitsuhiro *see* NAGAOKA Satoshi, KATO Mitsuhiro, AOYAMA Yoritaka & YOSHIDA Akira Comparative studies on the hypercholesterolaemia induced by excess dietary tyrosine or polychlorinated biphenyls in rats. 509
- KELLAWAY R.C. *see* SPRAGG J.C., KELLAWAY R.C. & LEIBHOLZ Jane Effects of supplements on intake, rumen function and nutrient supply and growth in cattle eating alkali-treated oat straw. 487
- KELLAWAY R.C. *see* NEUTZE S.A., KELLAWAY R.C. & FAICHNEY G.J. Kinetics of nitrogen transfer across the rumen wall of sheep given a low-protein roughage. 497

Index of Authors

675

- KELLEHER J. *see* CONWAY S.P., RAWSON I., DEAR P.R.F., SHIRES S.E. & KELLEHER J. The early anaemia of the premature infant: is there a place for vitamin E supplementation? 105
- KJELDSEN Keld, EVERTS Maria Elisabeth & CLAUSEN Torben Effects of semi-starvation and potassium deficiency on the concentration of [³H]ouabain-binding sites and sodium and potassium contents in rat skeletal muscle. 519
- KOONG L.J. *see* FERREL C.L., KOONG L.J. & NIENABER J.A. Effect of previous nutrition on body composition and maintenance energy costs of growing lambs. 595
- KYLE D.J. *see* ØRSKOV E.R., MACLEOD N.A. & KYLE D.J. Flow of nitrogen from the rumen and abomasum in cattle and sheep given protein-free nutrients by intragastric infusion. 241
- LACOMBE Christiane R., CORRAZE Geneviève R., NIBBELINK Maryse M., BOULZE Danièle, DOUSTE-BLAZY Philippe & CAMARE Rita Effects of a low-energy diet associated with egg supplementation on plasma cholesterol and lipoprotein levels in normal subjects: results of a cross-over study. 561
- LEIBHOLZ Jane *see* SPRAGG J.C., KELLAWAY R.C. & LEIBHOLZ Jane Effects of supplements on intake, rumen function and nutrient supply and growth in cattle eating alkali-treated oat straw. 487
- LENG R.A., DELLOW D. & WAGHORN G. Dynamics of large ciliate protozoa in the rumen of cattle fed on diets of freshly cut grass. 455
- LIGHT I.M. & GIBSON M. Percentage body fat and prevalence of obesity in a UK offshore population 97
- LIPINSKI Barbara A. *see* FORBES Gilbert B., BROWN Marilyn R., WELLE Stephen L. & LIPINSKI Barbara A. Deliberate overfeeding in women and men: energy cost and composition of the weight gain. 1
- LOBLEY G.E. *see* PARTRIDGE G.G., LOBLEY G.E. & FORDYCE R.A. Energy and nitrogen metabolism of rabbits during pregnancy, lactation and concurrent pregnancy and lactation. 199
- LOMAX M.A. *see* SYMONDS M.E., BRYANT M.J. & LOMAX M.A. The effect of shearing on the energy metabolism of the pregnant ewe. 635
- LOSADA H.R. *see* BEEVER D.E., LOSADA H.R., CAMMELL S.B., EVANS R.T. & HAINES M.J. Effect of forage species and season on nutrient digestion and supply in grazing cattle. 209
- LOSADA H.R. *see* BEEVER D.E., DHANOA M.S., LOSADA H.R., EVANS R.T., CAMMELL S.B. & FRANCE J. The effect of forage species and stage of harvest on the processes of digestion occurring in the rumen of cattle. 439
- LOWE R.F. *see* BATTERHAM E.S., ANDERSEN L.M., LOWE R.F. & DARNELL R.E. Nutritional value of lupin (*Lupinus albus*)-seed meal for growing pigs: availability of lysine, effect of autoclaving and net energy content. 645
- LUYKEN R. *see* VAN DOKKUM W., WESSTRA Anneke, LUYKEN R. & HERMUS R.J.J. The effects of a high-animal- and a high-vegetable-protein diet on mineral balance and bowel function of young men. 341
- MCADOO Kelly R. *see* CUNNANE Stephen C., MCADOO Kelly R. & HORROBIN David F. n-3 Essential fatty acids decrease weight gain in genetically obese mice. 87
- MCCREANOR Gwyn & BENDER David A. The metabolism of high intakes of tryptophan, nicotinamide and nicotinic acid in the rat. 577
- MCDONALD P. & SUTTLE N.F. Abnormal fermentations in continuous cultures of rumen micro-organisms given cobalt-deficient hay or barley as the food substrate. 369
- MACLEOD N.A. *see* ØRSKOV E.R., MACLEOD N.A. & KYLE D.J. Flow of nitrogen from the rumen and abomasum in cattle and sheep given protein-free nutrients by intragastric infusion. 241
- MAGGIORE P. *see* SAINT L., MAGGIORE P. & HARTMANN P.E. Yield and nutrient content of milk in eight women breast-feeding twins and one woman breast-feeding triplets. 49
- MATRAI A. *see* ERNST E., PIETSCH L., MATRAI A. & EISENBERG J. Blood rheology in vegetarians. 555
- MATTACKS Christine A. *see* POND Caroline M., MATTACKS Christine A., THOMPSON Marion C. & SADLER Dawn The effects of age, dietary restriction, exercise and maternity on the abundance and volume of adipocytes in twelve adipose depots of adult guinea-pigs. 29
- MICHALOWSKI T., HARMEYER J. & BREVES G. The passage of protozoa from the reticulo-rumen through the omasum of sheep. 625
- MILNER R.D.G. *see* DUGGAN Maureen B. & MILNER R.D.G. Energy metabolism in healthy black Kenyan children. 317
- MURALIDHARA D.V. & SHETTY P.S. Effects of preweaning nutritional deprivation on basal metabolism and thermoregulatory thermogenesis in the rat. 615
- MURRAY GORDON E., NAIR Raman & PATRICK John The effect of dietary polyunsaturated fat on cation transport and hypertension in the rat. 587

- NAGAOKA Satoshi, KATO Mitsuhiro, AOYAMA Yoritaka & YOSHIDA Akira Comparative studies on the hypercholesterolaemia induced by excess dietary tyrosine or polychlorinated biphenyls in rats. 509
- NAIR Raman *see* MURRAY GORDON E., NAIR Raman & PATRICK John The effect of dietary polyunsaturated fat on cation transport and hypertension in the rat. 587
- NEUTZE S.A., KELLAWAY R.C. & FAICHNEY G.J. Kinetics of nitrogen transfer across the rumen wall of sheep given a low-protein roughage. 497
- NIBBELINK Maryse M. *see* LACOMBE Christiane R., CORRAZE Geneviève R., NIBBELINK Maryse M., BOULZE Danièle, DOUSTE-BLAZY Philippe & CAMARE Rita Effects of a low-energy diet associated with egg supplementation on plasma cholesterol and lipoprotein levels in normal subjects: results of a cross-over study. 561
- NIENABER J.A. *see* FERREL C.L., KOONG L.J. & NIENABER J.A. Effect of previous nutrition on body composition and maintenance energy costs of growing lambs. 595
- ØRSKOV E.R., MACLEOD N.A. & KYLE D.J. Flow of nitrogen from the rumen and abomasum in cattle and sheep given protein-free nutrients by intragastric infusion. 241
- OSBOURN D.F. *see* AITCHISON E.M., GILL M., DHANOA M.S. & OSBOURN D.F. The effect of digestibility and forage species on the removal of digesta from the rumen and the voluntary intake of hay by sheep. 463
- OSBOURN D.F. *see* AITCHISON E.M., GILL M. & OSBOURN D.F. The effect of supplementation with maize starch and level of intake of perennial ryegrass (*Lolium perenne* cv. Endura) hay on the removal of digesta from the rumen of sheep. 477
- PALMER Robert M. *see* REEDS Peter J., HAY Susan M., DORWOOD Patricia M. & PALMER Robert M. Stimulation of muscle growth by clenbuterol: lack of effect on muscle protein biosynthesis. 249
- PARSONS Carl M. Determination of digestible and available amino acids in meat meal using conventional and caecectomized cockerels or chick growth assays. 227
- PATRICK John *see* MURRAY GORDON E., NAIR Raman & PATRICK John The effect of dietary polyunsaturated fat on cation transport and hypertension in the rat. 587
- PARTRIDGE G.G., LOBLEY G.E. & FORDYCE R.A. Energy and nitrogen metabolism of rabbits during pregnancy, lactation and concurrent pregnancy and lactation. 199
- PAUL A.A. *see* BLACK A.E., WILES S.J. & PAUL A.A. The nutrient intakes of pregnant and lactating mothers of good socio-economic status in Cambridge, UK: some implications for recommended daily allowances of minor nutrients. 59
- PHILLIPS Patricia *see* TULLIS J. Bronwyn, WHITTEMORE C.T. & PHILLIPS Patricia Compensatory nitrogen retention in growing pigs following a period of N deprivation. 259
- PIETSCH L. *see* ERNST E., PIETSCH L., MATRAI A. & EISENBERG J. Blood rheology in vegetarians. 555
- POINTILLART A., FONTAINE Nicole & THOMASSET Monique Effects of vitamin D on calcium regulation in vitamin-D-deficient pigs given a phytate-phosphorus diet. 661
- POND Caroline M., MATTACKS Christine A., THOMPSON Marion C. & SADLER Dawn The effects of age, dietary restriction, exercise and maternity on the abundance and volume of adipocytes in twelve adipose depots of adult guinea-pigs. 29
- RANA SURINDER K. & SANDERS T.A.B. Taurine concentrations in the diet, plasma, urine and breast milk of vegans compared with omnivores. 17
- RATTIGAN Stephen, HOWE Peter R.C. & CLARK Michael G. The effect of a high-fat diet and sucrose drinking option on the development of obesity in spontaneously hypertensive rats. 73
- RAWSON I. *see* CONWAY S.P., RAWSON I., DEAR P.R.F., SHIRES S.E. & KELLEHER J. The early anaemia of the premature infant: is there a place for vitamin E supplementation? 105
- REDEKOPP Carolyn *see* BARRY T.N., ALLSOP T.F. & REDEKOPP Carolyn The role of condensed tannins in the nutritional value of *Lotus pedunculatus* for sheep. 5. Effects on the endocrine system and on adipose tissue metabolism. 607
- REEDS Peter J., HAY Susan M., DORWOOD Patricia M. & PALMER Robert M. Stimulation of muscle growth by clenbuterol: lack of effect on muscle protein biosynthesis. 249
- RISSANEN Aila *see* TORNOVIST Hans, RISSANEN Aila & ANDERSSON Henrik Balance studies in patients with intestinal resection: how long is enough? 11
- ROTHWELL Nancy J. & STOCK Michael J. Influence of environmental temperature on energy balance, diet-induced thermogenesis and brown fat activity in 'cafeteria'-fed rats. 123
- RUSSELL James B. & FORSBERG Neil Production of tricarballylic acid by rumen microorganisms and its potential toxicity in ruminant tissue metabolism. 153

Index of Authors

677

- SADLER Dawn *see* POND Caroline M., MATTACKS Christine A., THOMPSON Marion C. & SADLER Dawn
The effects of age, dietary restriction, exercise and maternity on the abundance and volume of
adipocytes in twelve adipose depots of adult guinea-pigs. 29
- SAINT L., MAGGIORE P. & HARTMANN P.E. Yield and nutrient content of milk in eight women
breast-feeding twins and one woman breast-feeding triplets. 49
- SALIH Eltayeb Y., ZEIN Asma A. & BAYOUMI Riad A. The effect of oral contraceptives on the apparent
vitamin B₆ status in some Sudanese women. 363
- SANDERS T.A.B. *see* RANA SURINDER K. & SANDERS T.A.B. Taurine concentrations in the diet, plasma,
urine and breast milk of vegans compared with omnivores. 17
- SCHAEFER A.L., DAVIS S.R. & HUGHSON G.A. Estimation of tissue protein synthesis in sheep during
sustained elevation of plasma leucine concentration by intravenous infusion. 281
- SCHULLER E. *see* SUTTON J.D., HART I.C., BROSTER W.H., ELLIOTT Rosemary J. & SCHULLER E. Feeding
frequency for lactating cows: effects on rumen fermentation and blood metabolites and hormones. 181
- SHARPE P.M., BUTTERTY P.J. & HAYNES N.B. The effect of manipulating growth in sheep by diet or anabolic
agents on plasma cortisol and muscle glucocorticoid receptors. 289
- SHETTY P.S. *see* MURALIDHARA D.V. & SHETTY P.S. Effects of preweaning nutritional deprivation on
basal metabolism and thermoregulatory thermogenesis in the rat. 615
- SHIRES S.E. *see* CONWAY S.P., RAWSON I., DEAR P.R.F., SHIRES S.E. & KELLEHER J. The early anaemia
of the premature infant: is there a place for vitamin E supplementation? 105
- SPRAGG J.C., KELLAWAY R.C. & LEIBHOLZ Jane Effects of supplements on intake, rumen function and
nutrient supply and growth in cattle eating alkali-treated oat straw. 487
- STEPHEN Alison M., WIGGINS H.S., ENGLYST H.N., COLE T.J., WAYMAN B.J. & CUMMINGS J.H. The effect
of age, sex and level of intake of dietary fibre from wheat on large-bowel function in thirty healthy
subjects. 349
- STOCK Michael J. *see* ROTHWELL Nancy J. & STOCK Michael J. Influence of environmental temperature
on energy balance, diet-induced thermogenesis and brown fat activity in 'cafeteria'-fed rats. 123
- SUTTLE N.F. *see* McDONALD P. & SUTTLE N.F. Abnormal fermentations in continuous cultures of rumen
micro-organisms given cobalt-deficient hay or barley as the food substrate. 369
- SUTTON J.D., HART I.C., BROSTER W.H., ELLIOTT Rosemary J. & SCHULLER E. Feeding frequency for
lactating cows: effects on rumen fermentation and blood metabolites and hormones. 181
- SYMONDS M.E., BRYANT M.J. & LOMAX M.A. The effect of shearing on the energy metabolism of the
pregnant ewe. 635
- THIVEND P. *see* USHIDA K., JOUANY J.P. & THIVEND P. Role of rumen protozoa in nitrogen digestion
in sheep given two isonitrogenous diets. 407
- THOMASSET Monique *see* POINTILLART A., FONTAINE Nicole & THOMASSET Monique Effects of vitamin
D on calcium regulation in vitamin-D-deficient pigs given a phytate-phosphorus diet. 661
- THOMPSON Marion C. *see* POND Caroline M., MATTACKS Christine A., THOMPSON Marion C. & SADLER
Dawn The effects of age, dietary restriction, exercise and maternity on the abundance and volume
of adipocytes in twelve adipose depots of adult guinea-pigs. 29
- THURNHAM David I. *see* ADELEKAN Delana A. & THURNHAM David I. The influence of riboflavin
deficiency on absorption and liver storage of iron in the growing rat. 171
- TOMKINS A.M., DUNN D.T., HAYES R.J. & BRADLEY A.K. Seasonal variations in the nutritional status
of urban Gambian children. 533
- TORNQVIST Hans, RISSANEN Aila & ANDERSSON Henrik Balance studies in patients with intestinal
resection: how long is enough? 11
- TULLIS J. Bronwyn, WHITTEMORE C.T. & PHILLIPS Patricia Compensatory nitrogen retention in growing
pigs following a period of N deprivation. 259
- USHIDA K., JOUANY J.P. & THIVEND P. Role of rumen protozoa in nitrogen digestion in sheep given two
isonitrogenous diets. 407
- VAN DOKKUM W., WESSTRA Anneke, LUYKEN R. & HERMUS R.J.J. The effects of a high-animal- and a
high-vegetable-protein diet on mineral balance and bowel function of young men. 341
- VAN ES A.J.H., DE GROOT Lisette & VOGT J.E. Energy balances of eight volunteers fed on diets
supplemented with either lactitol or saccharose. 545
- VARVIKKO T. Microbially corrected amino acid composition of rumen-undegraded feed protein and
amino acid degradability in the rumen of feeds enclosed in nylon bags. 131
- VILLARD Laurence & BATES C.J. Carotene dioxygenase (*EC* 1.13.11.21) activity in rat intestine: effects
of vitamin A deficiency and of pregnancy. 115

- VINCENT Isobel C., WILLIAMS H.LI. & HILL R. Effects of sodium intake on lactation and Na levels in body fluids of Blackface ewes. 193
- VOGT J.E. *see* VAN ES A.J.H., DE GROOT Lisette & VOGT J.E. Energy balances of eight volunteers fed on diets supplemented with either lactitol or saccharose. 545
- WAGHORN G. *see* LENG R.A., DELLOW D. & WAGHORN G. Dynamics of large ciliate protozoa in the rumen of cattle fed on diets of freshly cut grass. 455
- WALLWORK James C. *see* DUERRE John A. & WALLWORK James C. Methionine metabolism in isolated perfused livers from rats fed on zinc-deficient and restricted diets. 395
- WAYMAN B.J. *see* STEPHEN Alison M., WIGGINS H.S., ENGLYST H.N., COLE T.J., WAYMAN B.J. & CUMMINGS J.H. The effect of age, sex and level of intake of dietary fibre from wheat on large-bowel function in thirty healthy subjects. 349
- WELLE Stephen L. *see* FORBES Gilbert B., BROWN Marilyn R., WELLE Stephen L. & LIPINSKI Barbara A. Deliberate overfeeding in women and men: energy cost and composition of the weight gain. 1
- WESSTRA Anneke *see* VAN DOKKUM W., WESSTRA Anneke, LUYKEN R. & HERMUS R.J.J. The effects of a high-animal- and a high-vegetable-protein diet on mineral balance and bowel function of young men. 341
- WHITTEMORE C.T. *see* TULLIS J. Bronwyn, WHITTEMORE C.T. & PHILLIPS Patricia Compensatory nitrogen retention in growing pigs following a period of N deprivation. 259
- WIGGINS H.S. *see* STEPHEN Alison M., WIGGINS H.S., ENGLYST H.N., COLE T.J., WAYMAN B.J. & CUMMINGS J.H. The effect of age, sex and level of intake of dietary fibre from wheat on large-bowel function in thirty healthy subjects. 349
- WILES S.J. *see* BLACK A.E., WILES S.J. & PAUL A.A. The nutrient intakes of pregnant and lactating mothers of good socio-economic status in Cambridge, UK: some implications for recommended daily allowances of minor nutrients. 59
- WILLIAMS H.LI. *see* VINCENT Isobel C., WILLIAMS H.LI. & HILL R. Effects of sodium intake on lactation and Na levels in body fluids of Blackface ewes. 193
- WILLIAMS Vernon J. *see* GODWIN Ian R. & WILLIAMS Vernon J. Effects of intraruminal sodium chloride infusion on rumen and renal nitrogen and electrolyte dynamics in sheep. 379
- YOSHIDA Akira *see* NAGAOKA Satoshi, KATO Mitsuhiro, AOYAMA Yoritaka & YOSHIDA Akira Comparative studies on the hypercholesterolaemia induced by excess dietary tyrosine or polychlorinated biphenyls in rats. 509
- ZEIN Asma A. *see* SALIH Eltayeb Y., ZEIN Asma A. & BAYOUMI Riad A. The effect of oral contraceptives on the apparent vitamin B₆ status in some Sudanese women. 363