

Index of Authors

- ADHAM Nabeel F. *see* SONG MOON K., LEE David B.N. & ADHAM Nabeel F. Influence of prostaglandins on unidirectional zinc fluxes across the small intestine of the rat. 417
- AMATAYAKUL K. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- AMATAYAKUL K. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOONTR Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- ANDERSSON Henrik *see* BOSAEUS Ingvar, SANDSTRÖM Brittmarie & ANDERSSON Henrik Bile acid and cholesterol excretion in human beings given soya-bean- and meat-protein-based diets: a study in ileostomy subjects. 215
- ARMSTRONG J. *see* MAXWELL M.H., WHITEHEAD C.C. & ARMSTRONG J. Haematological and tissue abnormalities in chicks caused by acute and subclinical folate deficiency. 73
- ARNAL Maurice *see* PAPET Isabelle, LEZEBOT Nadia, BARRE Françoise, ARNAL Maurice & HARPER Alfred E. Influence of dietary leucine content on the activities of branched-chain amino acid aminotransferase (EC 2.6.1.42) and branched-chain α -keto acid dehydrogenase (EC 1.2.4.4) complex in tissues of preruminant lambs. 475
- AVRON M. *see* BEN-AMOTZ A., MOKADY S. & AVRON M. The β -carotene-rich alga *Dunaliella bardawil* as a source of retinol in a rat diet. 443
- BACH Knudsen K.E., MUNCK L. & EGGUM B.O. Effects of cooking, pH and polyphenol level on carbohydrate composition and nutritional quality of a sorghum (*Sorghum bicolor* (L.) Moench) food, ugali. 31
- BALLARD R., BARDSLEY R.G. & BUTTERY P.J. Changes in the activity of skeletal muscle calcium-activated neutral proteinase (EC 3.4.22.17) and its specific inhibitor in chickens grown at different rates in response to graded levels of dietary protein. 141
- BARDSLEY R.G. *see* BALLARD R., BARDSLEY R.G. & BUTTERY P.J. Changes in the activity of skeletal muscle calcium-activated neutral proteinase (EC 3.4.22.17) and its specific inhibitor in chickens grown at different rates in response to graded levels of dietary protein. 141
- BARRE Françoise *see* PAPET Isabelle, LEZEBOT Nadia, BARRE Françoise, ARNAL Maurice & HARPER Alfred E. Influence of dietary leucine content on the activities of branched-chain amino acid aminotransferase (EC 2.6.1.42) and branched-chain α -keto acid dehydrogenase (EC 1.2.4.4) complex in tissues of preruminant lambs. 475
- BATES C.J. *see* FULLER N.J., EVANS P.H., HOWLETT M. & BATES C.J. The effects of dietary folate and zinc on the outcome of pregnancy and early growth in rats. 251
- BATES P.C. *see* JEPSON M.M., BATES P.C. & MILLWARD D.J. The role of insulin and thyroid hormones in the regulation of muscle growth and protein turnover in response to dietary protein in the rat. 397
- BAUM J.D. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- BAUM J.D. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOONTR Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- BELL F.R. *see* SISSONS J.W., BELL F.R., GIRARD C.L. & WASS J.A.H. Nutrient sensitivity of gastric emptying of digesta in the preruminant calf. 335
- BEN-AMOTZ A., MOKADY S. & AVRON M. The β -carotene-rich alga *Dunaliella bardawil* as a source of retinol in a rat diet. 443
- BENDER David A. & OLUFUNWA Ronald Utilization of tryptophan, nicotinamide and nicotinic acid as precursors for nicotinamide nucleotide synthesis in isolated rat liver cells. 279
- BERGEN W.G., BUSBOOM J.R. & MERKEL R.A. Leucine degradation in sheep. 323

- BERTHELOT Alain *see* LUTHRINGER Catherine, RAYSSIGUIER Yves, GUEUX Elyett & BERTHELOT Alain
Effect of moderate magnesium deficiency on serum lipids, blood pressure and cardiovascular reactivity
in normotensive rats. 243
- BIJLANI R.L. *see* SUD Sudha, SIDDHU Anupa, BIJLANI R.L. & KARMARKAR M.G. Nutrient composition
is a poor determinant of the glycaemic response. 5
- BLACK J. Mark *see* SWANSON Joy E., BLACK J. Mark & KINSELLA John E. Dietary menhaden oil: effects
on the rate and magnitude of modification of phospholipid fatty acid composition of mouse heart and
brain. 535
- BLAKEBOROUGH Peter & SALTER Dallyn N. Folate transport in enterocytes and brush-border-membrane
vesicles isolated from the small intestine of the neonatal goat. 485
- BLAKEBOROUGH Peter *see* SALTER Dallyn N. & BLAKEBOROUGH Peter Influence of goat's-milk folate-
binding protein on transport of 5-methyltetrahydrofolate in neonatal-goat small intestinal brush-
border-membrane vesicles. 497
- BOSAEUS Ingvar, SANDSTRÖM Brittmarie & ANDERSSON Henrik Bile acid and cholesterol excretion in
human beings given soya-bean- and meat-protein-based diets: a study in ileostomy subjects. 215
- BROWN Nicola J., WORLDING Jane, RUMSEY R.D.E. & READ N.W. The effect of guar gum on the
distribution of a radiolabelled meal in the gastrointestinal tract of the rat. 223
- BUCHAN Vivien *see* MACRAE J.C., SKENE Pat A., CONNELL Alexmary, BUCHAN Vivien & LOBLEY G.E.
The action of the β -agonist clenbuterol on protein and energy metabolism in fattening wether
lambs. 457
- BUNKER Valda W., LAWSON Margaret S., STANSFIELD Maureen F. & CLAYTON Barbara E. Selenium
balance studies in apparently healthy and housebound elderly people eating self-selected diets. 171
- BUNKER Valda W. *see* THOMAS Anita J., BUNKER Valda W., HINKS Leslie J., SODHA Nidish, MULLEE Mark
A. & CLAYTON Barbara E. Energy, protein, zinc and copper status of twenty-one elderly inpatients:
analysed dietary intake and biochemical indices. 181
- BUSBOOM J.R. *see* BERGEN W.G., BUSBOOM J.R. & MERKEL R.A. Leucine degradation in sheep. 323
- BUTTERY P.J. *see* BALLARD R., BARDSLEY R.G. & BUTTERY P.J. Changes in the activity of skeletal muscle
calcium-activated neutral proteinase (EC 3.4.22.17) and its specific inhibitor in chickens grown at
different rates in response to graded levels of dietary protein. 141
- CAPLE I.W. *see* GRACE N.D., CAPLE I.W. & CARE A.D. Studies in sheep on the absorption of magnesium
from a low molecular weight fraction of the reticulo-rumen contents. 93
- CARE A.D. *see* GRACE N.D., CAPLE I.W. & CARE A.D. Studies in sheep on the absorption of magnesium
from a low molecular weight fraction of the reticulo-rumen contents. 93
- CHAPMAN H.W. *see* GROVUM W.L. & CHAPMAN H.W. Factors affecting the voluntary intake of food by
sheep. 4. The effect of additives representing the primary tastes on sham intakes by oesophageal-
fistulated sheep. 63
- CLAYTON Barbara E. *see* BUNKER Valda W., LAWSON Margaret S., STANSFIELD Maureen F. & CLAYTON
Barbara E. Selenium balance studies in apparently healthy and housebound elderly people eating
self-selected diets. 171
- CLAYTON Barbara E. *see* THOMAS Anita J., BUNKER Valda W., HINKS Leslie J., SODHA Nidish, MULLEE
Mark A. & CLAYTON Barbara E. Energy, protein, zinc and copper status of twenty-one elderly
inpatients: analysed dietary intake and biochemical indices. 181
- CONNELL Alexmary *see* MACRAE J.C., SKENE Pat A., CONNELL Alexmary, BUCHAN Vivien & LOBLEY
G.E. The action of the β -agonist clenbuterol on protein and energy metabolism in fattening wether
lambs. 457
- COOK James D. *see* EL GUINDI Mohamed, LYNCH Sean R. & COOK James D. Iron absorption from
fortified flat breads. 205
- CRAMB R. *see* MORGAN L.M., HAMPTON S.M., TREDGER J.A., CRAMB R. & MARKS V. Modifications of
gastric inhibitory polypeptide (GIP) secretion in man by a high-fat diet. 373
- CUNNANE Stephen C. Evidence that adverse effects of zinc deficiency on essential fatty acid composition
in rats are independent of food intake. 273
- DÉBIEC Hanna & LORENC Roman Influence of lactose on phosphate metabolism in rats. 87
- DE CHANEET G. *see* ROWE J.B., NOLAN J.V., DE CHANEET G., TELENI E. & HOLMES P.H. The effect of
haemonchosis and blood loss into the abomasum on digestion in sheep. 125
- DE JONG Felice A., HOWLETT Geoffrey J. & SCHREIBER Gerhard Messenger RNA levels of plasma proteins
following fasting. 81
- DENNISON C. *see* MARAIS J.P., THERION Joha J., MACKIE R.I., KISTNER A. & DENNISON C. Effect of nitrate
and its reduction products on the growth and activity of the rumen microbial population. 301

Index of Authors

549

- DE VRIES Hielke T. *see* VAN DER MEER Roelof, DE VRIES Hielke T. & VAN TINTELEN Gerrit The phosphorylation state of casein and the species-dependency of its hypercholesterolaemic effect. 467
- DUNCAN John R. *see* SKEEF Noel S. & DUNCAN John R. A possible relation between dietary zinc and cAMP in the regulation of tumour cell proliferation in the rat. 437
- EGGUM B.O. *see* BACH Knudsen K.E., MUNCK L. & EGGUM B.O. Effects of cooking, pH and polyphenol level on carbohydrate composition and nutritional quality of a sorghum (*Sorghum bicolor* (L.) Moench) food, ugali. 31
- EL GUINDI Mohamed, LYNCH Sean R. & COOK James D. Iron absorption from fortified flat breads. 205
- ENSER Michael *see* ROBERTS Jennifer L., WHITTINGTON Frances M. & ENSER Michael Effects of litter size and subsequent gold-thioglucose-induced obesity on adipose tissue weight, distribution and cellularity in male and female mice: an age study. 519
- EVANS P.H. *see* FULLER N.J., EVANS P.H., HOWLETT M. & BATES C.J. The effects of dietary folate and zinc on the outcome of pregnancy and early growth in rats. 251
- FAIRWEATHER-TAIT S.J. *see* SOUTHON Susan, WRIGHT A.J.A., PRICE K.R., FAIRWEATHER-TAIT S.J. & FENWICK G.R. The effect of three types of saponin on iron and zinc absorption from a single meal in the rat. 389
- FAIRWEATHER-TAIT Susan J. *see* SOUTHON Susan, FAIRWEATHER-TAIT Susan J. & WILLIAMS Christine M. Fetal growth, glucose tolerance and plasma insulin concentration in rats given a marginal-zinc diet in the latter stages of pregnancy. 315
- FAIRWEATHER-TAIT Susan J. *see* POWERS Hilary J., WRIGHT A.J.A. & FAIRWEATHER-TAIT Susan J. The effect of riboflavin deficiency in rats on the absorption and distribution of iron. 381
- FARRELL D.J. *see* JOHNSON R.J. & FARRELL D.J. The prediction of body composition in poultry by estimation in vivo of total body water with tritiated water and deuterium oxide. 109
- FENWICK G.R. *see* SOUTHON Susan, WRIGHT A.J.A., PRICE K.R., FAIRWEATHER-TAIT S.J. & FENWICK G.R. The effect of three types of saponin on iron and zinc absorption from a single meal in the rat. 389
- FFOULKES D. & LENG R.A. Dynamics of protozoa in the rumen of cattle. 429
- FULLER N.J., EVANS P.H., HOWLETT M. & BATES C.J. The effects of dietary folate and zinc on the outcome of pregnancy and early growth in rats. 251
- GARCIN H. *see* SUBERVILLE C., HIGUERET P., TARUOURA D., GARCIN H. & HIGUERET D. Glutathione deficiency and peripheral metabolism of thyroid hormones during dietary cysteine deprivation in rats. 451
- GEE Jennifer M. *see* SOUTHON Susan, JOHNSON I.T., GEE Jennifer M. & PRICE K.R. The effect of *Gypsophila* saponins in the diet on mineral status and plasma cholesterol concentrations in the rat. 49
- GIRARD C.L. *see* SISSONS J.W., BELL F.R., GIRARD C.L. & WASS J.A.H. Nutrient sensitivity of gastric emptying of digesta in the pre-ruminant calf. 335
- GIUGLIANO L.G. *see* JACKSON M.J., GIUGLIANO R., GIUGLIANO L.G., OLIVEIRA E.F., SHRIMPTON R. & SWAINBANK I.G. Stable isotope metabolic studies of zinc nutrition in slum-dwelling lactating women in the Amazon valley. 193
- GIUGLIANO R. *see* JACKSON M.J., GIUGLIANO R., GIUGLIANO L.G., OLIVEIRA E.F., SHRIMPTON R. & SWAINBANK I.G. Stable isotope metabolic studies of zinc nutrition in slum-dwelling lactating women in the Amazon valley. 193
- GRACE N.D., CAPLE I.W. & CARE A.D. Studies in sheep on the absorption of magnesium from a low molecular weight fraction of the reticulo-rumen contents. 93
- GROVUM W.L. & CHAPMAN H.W. Factors affecting the voluntary intake of food by sheep. 4. The effect of additives representing the primary tastes on sham intakes by oesophageal-fistulated sheep. 63
- GUEUX Elyett *see* LUTHRINGER Catherine, RAYSSIGUIER Yves, GUEUX Elyett & BERTHELOT Alain Effect of moderate magnesium deficiency on serum lipids, blood pressure and cardiovascular reactivity in normotensive rats. 243
- GUPTA R.K. Paul *see* VERMA P.C., GUPTA R.P., SADANA J.R. & GUPTA R.K. Paul Effect of experimental zinc deficiency and repletion on some immunological variables in guinea-pigs. 149
- GUPTA R.P. *see* VERMA P.C., GUPTA R.P., SADANA J.R. & GUPTA R.K. Paul Effect of experimental zinc deficiency and repletion on some immunological variables in guinea-pigs. 149
- HAMPTON S.M. *see* MORGAN L.M., HAMPTON S.M., TREDGER J.A., CRAMB R. & MARKS V. Modifications of gastric inhibitory polypeptide (GIP) secretion in man by a high-fat diet. 373
- HARPER Alfred E. *see* PAPET Isabelle, LEZEBOT Nadia, BARRE Françoise, ARNAL Maurice & HARPER Alfred E. Influence of dietary leucine content on the activities of branched-chain amino acid amino-

- transferase (*EC* 2.6.1.42) and branched-chain α -keto acid dehydrogenase (*EC* 1.2.4.4) complex in tissues of preruminant lambs.
- HARVEY W. Keith & NAKAMOTO Tetsuo The influence of a high-protein, low-carbohydrate diet on bone development in the fetuses of rat dams with streptozotocin-induced diabetes. 475
57
- HERZBERG Gene R. & ROGERSON Maria Interaction of dietary carbohydrate and fat in the regulation of hepatic and extrahepatic lipogenesis in the rat. 233
- HIDIROGLOU M. & KARPINSKI K. Pharmacokinetic disposition in sheep of various vitamin E preparations given orally or intravenously. 509
- HIGUERET D. *see* SUBERVILLE C., HIGUERET P., TARUOURA D., GARCIN H. & HIGUERET D. Glutathione deficiency and peripheral metabolism of thyroid hormones during dietary cysteine deprivation in rats. 451
- HIGUERET P. *see* SUBERVILLE C., HIGUERET P., TARUOURA D., GARCIN H. & HIGUERET D. Glutathione deficiency and peripheral metabolism of thyroid hormones during dietary cysteine deprivation in rats. 451
- HINKS Leslie J. *see* THOMAS Anita J., BUNKER Valda W., HINKS Leslie J., SODHA Nidish, MULLEE Mark A. & CLAYTON Barbara E. Energy, protein, zinc and copper status of twenty-one elderly inpatients: analysed dietary intake and biochemical indices. 181
- HOLMES P.H. *see* ROWE J.B., NOLAN J.V., DE CHANEET G., TELNI E. & HOLMES P.H. The effect of haemochosis and blood loss into the abomasum on digestion in sheep. 125
- HOWLETT Geoffrey J. *see* DE JONG Felice A., HOWLETT Geoffrey J. & SCHREIBER Gerhard Messenger RNA levels of plasma proteins following fasting. 81
- HOWLETT M. *see* FULLER N.J., EVANS P.H., HOWLETT M. & BATES C.J. The effects of dietary folate and zinc on the outcome of pregnancy and early growth in rats. 251
- ILLMAN Richard J. *see* TOPPING David L., OAKENFULL David, TRIMBLE Rodney P. & ILLMAN Richard J. A viscous fibre (methylcellulose) lowers blood glucose and plasma triacylglycerols and increases liver glycogen independently of volatile fatty acid production in the rat. 21
- IMONG Stella M. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- IMONG Stella M. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOOTH Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOOTH Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- JACKSON M.J., GIUGLIANO R., GIUGLIANO L.G., OLIVEIRA E.F., SHRIMPTON R. & SWAINBANK I.G. Stable isotope metabolic studies of zinc nutrition in slum-dwelling lactating women in the Amazon valley. 193
- JANSSENS S.M. *see* KRISHNAMURTI C.R. & JANSSENS S.M. Determination of leucine metabolism and protein turnover in sheep, using gas chromatography-mass spectrometry. 155
- JEPSON M.M., BATES P.C. & MILLWARD D.J. The role of insulin and thyroid hormones in the regulation of muscle growth and protein turnover in response to dietary protein in the rat. 397
- JOHNSON I.T. *see* SOUTHON Susan, JOHNSON I.T., GEE Jennifer M. & PRICE K.R. The effect of *Gypsophila* saponins in the diet on mineral status and plasma cholesterol concentrations in the rat. 49
- JOHNSON R.J. & FARRELL D.J. The prediction of body composition in poultry by estimation in vivo of total body water with tritiated water and deuterium oxide. 109
- KARMARKAR M.G. *see* SUD Sudha, SIDDHU Anupa, BIJLANI R.L. & KARMARKAR M.G. Nutrient composition is a poor determinant of the glycaemic response. 5
- KARPINSKI K. *see* HIDIROGLOU M. & KARPINSKI K. Pharmacokinetic disposition in sheep of various vitamin E preparations given orally or intravenously. 509
- KINSELLA John E. *see* SWANSON Joy E., BLACK J. Mark & KINSELLA John E. Dietary menhaden oil: effects on the rate and magnitude of modification of phospholipid fatty acid composition of mouse heart and brain. 535
- KISTNER A. *see* MARAIS J.P., THERION Joha J., MACKIE R.I., KISTNER A. & DENNISON C. Effect of nitrate and its reduction products on the growth and activity of the rumen microbial population. 301

Index of Authors

551

- KRISHNAMURTI C.R. & JANSSENS S.M. Determination of leucine metabolism and protein turnover in sheep, using gas chromatography–mass spectrometry. 155
- LAMAND M. *see* MASON J., LAMAND M., TRESSOL J.C. & MULRYAN G. Studies of the changes in systemic copper metabolism and excretion produced by the intravenous administration of trithiomolybdate in sheep. 289
- LAWSON Margaret S. *see* BUNKER Valda W., LAWSON Margaret S., STANSFIELD Maureen F. & CLAYTON Barbara E. Selenium balance studies in apparently healthy and housebound elderly people eating self-selected diets. 171
- LEE David B.N. *see* SONG Moon K., LEE David B.N. & ADHAM Nabeel F. Influence of prostaglandins on unidirectional zinc fluxes across the small intestine of the rat. 417
- LEELAPAT P. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOOTH Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- LENG R.A. *see* FFOULKES D. & LENG R.A. Dynamics of protozoa in the rumen of cattle. 429
- LEZEBOT Nadia *see* PAPET Isabelle, LEZEBOT Nadia, BARRE Françoise, ARNAL Maurice & HARPER Alfred E. Influence of dietary leucine content on the activities of branched-chain amino acid aminotransferase (EC 2.6.1.42) and branched-chain α -keto acid dehydrogenase (EC 1.2.4.4) complex in tissues of preruminant lambs. 475
- LOBLEY G.E. *see* MACRAE J.C., SKENE Pat A., CONNELL Alexmary, BUCHAN Vivien & LOBLEY G.E. The action of the β -agonist clenbuterol on protein and energy metabolism in fattening wether lambs. 457
- LORENC Roman *see* DEBIEC Hanna & LORENC Roman Influence of lactose on phosphate metabolism in rats. 87
- LUTHRINGER Catherine, RAYSSIGUIER Yves, GUEUX Elyett & BERTHELOT Alain Effect of moderate magnesium deficiency on serum lipids, blood pressure and cardiovascular reactivity in normotensive rats. 243
- LYNCH Sean R. *see* EL GUINDI Mohamed, LYNCH Sean R. & COOK James D. Iron absorption from fortified flat breads. 205
- MACKIE R.I. *see* MARAIS J.P., THERION Joha J., MACKIE R.I., KISTNER A. & DENNISON C. Effect of nitrate and its reduction products on the growth and activity of the rumen microbial population. 301
- MACRAE J.C., SKENE Pat A., CONNELL Alexmary, BUCHAN Vivien & LOBLEY G.E. The action of the β -agonist clenbuterol on protein and energy metabolism in fattening wether lambs. 457
- MARAIS J.P., THERION Joha J., MACKIE R.I., KISTNER A. & DENNISON C. Effect of nitrate and its reduction products on the growth and activity of the rumen microbial population. 301
- MARKS V. *see* MORGAN L.M., HAMPTON S.M., TREDGER J.A., CRAMB R. & MARKS V. Modifications of gastric inhibitory polypeptide (GIP) secretion in man by a high-fat diet. 373
- MASON J., LAMAND M., TRESSOL J.C. & MULRYAN G. Studies of the changes in systemic copper metabolism and excretion produced by the intravenous administration of trithiomolybdate in sheep. 289
- MAXWELL M.H., WHITEHEAD C.C. & ARMSTRONG J. Haematological and tissue abnormalities in chicks caused by acute and subclinical folate deficiency. 73
- MERKEL R.A. *see* BERGEN W.G., BUSBOOM J.R. & MERKEL R.A. Leucine degradation in sheep. 323
- MILLWARD D.J. *see* JEPSON M.M., BATES P.C. & MILLWARD D.J. The role of insulin and thyroid hormones in the regulation of muscle growth and protein turnover in response to dietary protein in the rat. 397
- MOKADY S. *see* BEN-AMOTZ A., MOKADY S. & AVRON M. The β -carotene-rich alga *Dunaliella bardawil* as a source of retinol in a rat diet. 443
- MORGAN L.M., HAMPTON S.M., TREDGER J.A., CRAMB R. & MARKS V. Modifications of gastric inhibitory polypeptide (GIP) secretion in man by a high-fat diet. 373
- MULLEE Mark A. *see* THOMAS Anita J., BUNKER Valda W., HINKS Leslie J., SODHA Nidish, MULLEE Mark A. & CLAYTON Barbara E. Energy, protein, zinc and copper status of twenty-one elderly inpatients: analysed dietary intake and biochemical indices. 181
- MULRYAN G. *see* MASON J., LAMAND M., TRESSOL J.C. & MULRYAN G. Studies of the changes in systemic copper metabolism and excretion produced by the intravenous administration of trithiomolybdate in sheep. 289
- MUNCK L. *see* BACH Knudsen K.E., MUNCK L. & EGGUM B.O. Effects of cooking, pH and polyphenol level on carbohydrate composition and nutritional quality of a sorghum (*Sorghum bicolor* (L.) Moench) food, ugali. 31

- NAKAMOTO Tetsuo *see* HARVEY W. Keith & NAKAMOTO Tetsuo The influence of a high-protein, low-carbohydrate diet on bone development in the fetuses of rat dams with streptozotocin-induced diabetes. 57
- NOLAN J.V. *see* ROWE J.B., NOLAN J.V., DE CHANEET G., TELENI E. & HOLMES P.H. The effect of haemonchosis and blood loss into the abomasum on digestion in sheep. 125
- OAKENFULL David *see* TOPPING David L., OAKENFULL David, TRIMBLE Rodney P. & ILLMAN Richard J. A viscous fibre (methylcellulose) lowers blood glucose and plasma triacylglycerols and increases liver glycogen independently of volatile fatty acid production in the rat. 21
- OLIVEIRA E.F. *see* JACKSON M.J., GIUGLIANO R., GIUGLIANO L.G., OLIVEIRA E.F., SHRIMPSON R. & SWAINBANK I.G. Stable isotope metabolic studies of zinc nutrition in slum-dwelling lactating women in the Amazon valley. 193
- OLUFUNWA Ronald *see* BENDER David A. & OLUFUNWA Ronald Utilization of tryptophan, nicotinamide and nicotinic acid as precursors for nicotinamide nucleotide synthesis in isolated rat liver cells. 279
- PAPET Isabelle, LEZEBOT Nadia, BARRE Françoise, ARNAL Maurice & HARPER Alfred E. Influence of dietary leucine content on the activities of branched-chain amino acid aminotransferase (*EC* 2.6.1.42) and branched-chain α -keto acid dehydrogenase (*EC* 1.2.4.4) complex in tissues of pre-ruminant lambs. 475
- PEDERSEN Jens C. Comparison of γ -glutamyl hydrolase (conjugase; *EC* 3.4.22.12) and amylase treatment procedures in the microbiological assay for food folates. 261
- POWERS Hilary J., WRIGHT A.J.A. & FAIRWEATHER-TAIT Susan J. The effect of riboflavin deficiency in rats on the absorption and distribution of iron. 381
- PREUNGLUMPOO S. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOOTH Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- PRICE K.R. *see* SOUTHON Susan, JOHNSON I.T., GEE Jennifer M. & PRICE K.R. The effect of *Gypsophila* saponins in the diet on mineral status and plasma cholesterol concentrations in the rat. 49
- PRICE K.R. *see* SOUTHON Susan, WRIGHT A.J.A., PRICE K.R., FAIRWEATHER-TAIT S.J. & FENWICK G.R. The effect of three types of saponin on iron and zinc absorption from a single meal in the rat. 389
- RAYSSIGUIER Yves *see* LUTHRINGER Catherine, RAYSSIGUIER Yves, GUEUX Elyett & BERTHELOT Alain Effect of moderate magnesium deficiency on serum lipids, blood pressure and cardiovascular reactivity in normotensive rats. 243
- READ N.W. *see* BROWN Nicola J., WORLDING Jane, RUMSEY R.D.E. & READ N.W. The effect of guar gum on the distribution of a radiolabelled meal in the gastrointestinal tract of the rat. 223
- ROBERTS Jennifer L., WHITTINGTON Frances M. & ENSER Michael Effects of litter size and subsequent gold-thioglucose-induced obesity on adipose tissue weight, distribution and cellularity in male and female mice: an age study. 519
- ROGERSON Maria *see* HERZBERG Gene R. & ROGERSON Maria Interaction of dietary carbohydrate and fat in the regulation of hepatic and extrahepatic lipogenesis in the rat. 233
- ROWE J.B., NOLAN J.V., DE CHANEET G., TELENI E. & HOLMES P.H. The effect of haemonchosis and blood loss into the abomasum on digestion in sheep. 125
- RUCKPHAOPUNT S. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- RUMSEY R.D.E. *see* BROWN Nicola J., WORLDING Jane, RUMSEY R.D.E. & READ N.W. The effect of guar gum on the distribution of a radiolabelled meal in the gastrointestinal tract of the rat. 223
- SADANA J.R. *see* VERMA P.C., GUPTA R.P., SADANA J.R. & GUPTA R.K. Paul Effect of experimental zinc deficiency and repletion on some immunological variables in guinea-pigs. 149
- SALTER Dallyn N. *see* BLAKEBOROUGH Peter & SALTER Dallyn N. Folate transport in enterocytes and brush-border-membrane vesicles isolated from the small intestine of the neonatal goat. 485
- SALTER Dallyn N. & BLAKEBOROUGH Peter Influence of goat's-milk folate-binding protein on transport of 5-methyltetrahydrofolate in neonatal-goat small intestinal brush-border-membrane vesicles. 497
- SANDSTRÖM Brittmarie *see* BOSAEUS Ingvar, SANDSTRÖM Brittmarie & ANDERSSON Henrik Bile acid and cholesterol excretion in human beings given soya-bean- and meat-protein-based diets: a study in ileostomy subjects. 215
- SCHREIBER Gerhard *see* DE JONG Felice A., HOWLETT Geoffrey J. & SCHREIBER Gerhard Messenger RNA levels of plasma proteins following fasting. 81
- SHENNAN D.B. Selenium (selenate) transport by human placental brush border membrane vesicles. 13

Index of Authors

553

- SHRIMPTON R. *see* JACKSON M.J., GIUGLIANO R., GIUGLIANO L.G., OLIVEIRA E.F., SHRIMPTON R. & SWAINBANK I.G. Stable isotope metabolic studies of zinc nutrition in slum-dwelling lactating women in the Amazon valley. 193
- SIDDHU Anupa *see* SUD Sudha, SIDDHU Anupa, BIJLANI R.L. & KARMARKAR M.G. Nutrient composition is a poor determinant of the glycaemic response. 5
- SILPRASERT A. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- SILPRASERT A. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOOTR Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365
- SISSONS J.W., BELL F.R., GIRARD C.L. & WASS J.A.H. Nutrient sensitivity of gastric emptying of digesta in the preruminant calf. 335
- SKEEF Noel S. & DUNCAN John R. A possible relation between dietary zinc and cAMP in the regulation of tumour cell proliferation in the rat. 437
- SKENE Pat A. *see* MACRAE J.C., SKENE Pat A., CONNELL Alexmary, BUCHAN Vivien & LOBLEY G.E. The action of the β -agonist clenbuterol on protein and energy metabolism in fattening wether lambs. 457
- SODHA Nidish *see* THOMAS Anita J., BUNKER Valda W., HINKS Leslie J., SODHA Nidish, MULLEE Mark A. & CLAYTON Barbara E. Energy, protein, zinc and copper status of twenty-one elderly inpatients: analysed dietary intake and biochemical indices. 181
- SONG Moon K., LEE David B.N. & ADHAM Nabeel F. Influence of prostaglandins on unidirectional zinc fluxes across the small intestine of the rat. 417
- SOUTHON Susan, JOHNSON I.T., GEE Jennifer M. & PRICE K.R. The effect of *Gypsophila* saponins in the diet on mineral status and plasma cholesterol concentrations in the rat. 49
- SOUTHON Susan, FAIRWEATHER-TAIT Susan J. & WILLIAMS Christine M. Fetal growth, glucose tolerance and plasma insulin concentration in rats given a marginal-zinc diet in the latter stages of pregnancy. 315
- SOUTHON Susan, WRIGHT A.J.A., PRICE K.R., FAIRWEATHER-TAIT S.J. & FENWICK G.R. The effect of three types of saponin on iron and zinc absorption from a single meal in the rat. 389
- STANSFIELD Maureen F. *see* BUNKER Valda W., LAWSON Margaret S., STANSFIELD Maureen F. & CLAYTON Barbara E. Selenium balance studies in apparently healthy and housebound elderly people eating self-selected diets. 171
- SUBERVILLE C., HIGUERET P., TARUOURA D., GARCIN H. & HIGUERET D. Glutathione deficiency and peripheral metabolism of thyroid hormones during dietary cysteine deprivation in rats. 451
- SUD Sudha, SIDDHU Anupa, BIJLANI R.L. & KARMARKAR M.G. Nutrient composition is a poor determinant of the glycaemic response. 5
- SWAINBANK I.G. *see* JACKSON M.J., GIUGLIANO R., GIUGLIANO L.G., OLIVEIRA E.F., SHRIMPTON R. & SWAINBANK I.G. Stable isotope metabolic studies of zinc nutrition in slum-dwelling lactating women in the Amazon valley. 193
- SWANSON Joy E., BLACK J. Mark & KINSELLA John E. Dietary menhaden oil: effects on the rate and magnitude of modification of phospholipid fatty acid composition of mouse heart and brain. 535
- TARUOURA D. *see* SUBERVILLE C., HIGUERET P., TARUOURA S., GARCIN H. & HIGUERET D. Glutathione deficiency and peripheral metabolism of thyroid hormones during dietary cysteine deprivation in rats. 451
- TELENI E. *see* ROWE J.B., NOLAN J.V., DE CHANEET G., TELENI E. & HOLMES P.H. The effect of haemonchosis and blood loss into the abomasum on digestion in sheep. 125
- THERION Joha J. *see* MARAIS J.P., THERION Joha J., MACKIE R.I., KISTNER A. & DENNISON C. Effect of nitrate and its reduction products on the growth and activity of the rumen microbial population. 301
- THOMAS Anita J., BUNKER Valda W., HINKS Leslie J., SODHA Nidish, MULLEE Mark A. & CLAYTON Barbara E. Energy, protein, zinc and copper status of twenty-one elderly inpatients: analysed dietary intake and biochemical indices. 181
- TOPPING David L., OAKENFULL David, TRIMBLE Rodney P. & ILLMAN Richard J. A viscous fibre (methylcellulose) lowers blood glucose and plasma triacylglycerols and increases liver glycogen independently of volatile fatty acid production in the rat. 21
- TREDGER J.A. *see* MORGAN L.M., HAMPTON S.M., TREDGER J.A., CRAMB R. & MARKS V. Modifications of gastric inhibitory polypeptide (GIP) secretion in man by a high-fat diet. 373
- TRESSOL J.C. *see* MASON J., LAMAND M., TRESSOL J.C. & MULRYAN G. Studies of the changes in systemic

- copper metabolism and excretion produced by the intravenous administration of trithiomolybdate in sheep. 289
- TRIMBLE Rodney P. *see* TOPPING David L., OAKENFULL David, TRIMBLE Rodney P. & ILLMAN Richard J. A viscous fibre (methylcellulose) lowers blood glucose and plasma triacylglycerols and increases liver glycogen independently of volatile fatty acid production in the rat. 21
- VAN DER MEER Roelof, DE VRIES Hielke T. & VAN TINTELEN Gerrit The phosphorylation state of casein and the species-dependency of its hypercholesterolaemic effect. 467
- VAN TINTELEN Gerrit *see* VAN DER MEER Roelof, DE VRIES Hielke T. & VAN TINTELEN Gerrit The phosphorylation state of casein and the species-dependency of its hypercholesterolaemic effect. 467
- VERMA P.C., GUPTA R.P., SADANA J.R. & GUPTA R.K. Paul Effect of experimental zinc deficiency and repletion on some immunological variables in guinea-pigs. 149
- WASS J.A.H. *see* SISSONS J.W., BELL F.R., GIRARD C.L. & WASS J.A.H. Nutrient sensitivity of gastric emptying of digesta in the preruminant calf. 335
- WHITEHEAD C.C. *see* MAXWELL M.H., WHITEHEAD C.C. & ARMSTRONG J. Haematological and tissue abnormalities in chicks caused by acute and subclinical folate deficiency. 73
- WHITTINGTON Frances M. *see* ROBERTS Jennifer L., WHITTINGTON Frances M. & ENSER Michael Effects of litter size and subsequent gold-thioglucose-induced obesity on adipose tissue weight, distribution and cellularity in male and female mice: an age study. 519
- WILLIAMS Christine M. *see* SOUTHON Susan, FAIRWEATHER-TAIT Susan J. & WILLIAMS Christine M. Fetal growth, glucose tolerance and plasma insulin concentration in rats given a marginal-zinc diet in the latter stages of pregnancy. 315
- WOOLRIDGE M.W. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., RUCKPHAOPUNT S., WOOLRIDGE M.W., BAUM J.D. & AMATAYAKUL K. Circadian variation in fat concentration of breast-milk in a rural northern Thai population. 349
- WORLDING Jane *see* BROWN Nicola J., WORLDING Jane, RUMSEY R.D.E. & READ N.W. The effect of guar gum on the distribution of a radiolabelled meal in the gastrointestinal tract of the rat. 223
- WRIGHT A.J.A. *see* POWERS Hilary J., WRIGHT A.J.A. & FAIRWEATHER-TAIT Susan J. The effect of riboflavin deficiency in rats on the absorption and distribution of iron. 381
- WRIGHT A.J.A. *see* SOUTHON Susan, WRIGHT A.J.A., PRICE K.R., FAIRWEATHER-TAIT S.J. & FENWICK G.R. The effect of three types of saponin on iron and zinc absorption from a single meal in the rat. 389
- YOOTABOOTH Y. *see* JACKSON Dorothy A., IMONG Stella M., SILPRASERT A., PREUNGLUMPOO S., LEELAPAT P., YOOTABOOTH Y., AMATAYAKUL K. & BAUM J.D. Estimation of 24 h breast-milk fat concentration and fat intake in rural northern Thailand. 365