

Index of Authors

- ADAM, J. M. *see* EDHOLM, O. G. 1091
 ALLEN, D. M. *see* POOLE, D. A. 695
 ALLEYNE, G. A. O. Studies on total body potassium in malnourished infants. Factors affecting potassium repletion 205
 ANASUYA, A. and NARASINGA RAO, B. S. Relationship between body collagen and urinary hydroxyproline excretion in young rats fed on a low-protein or low-calorie diet 97
 ANNISON, E. F. *see* FREEMAN, C. P. 705
 ARMSTRONG, D. G. *see* PFEFFER, E. 197
- BARNES, M. McC. *see* PEARSON, C. K. 581
 BAWDEN, R. J. The effects of nematode parasitism on the rate of passage of food residues through the alimentary tract of sheep 291
 BELLING, C. B. *see* PILGRIM, A. F. 589
 BENZIE, D. *see* ØRSKOV, E. R. 785
 BERTRAND, P. V. *see* HOOD, C. E. A. 39
 BEST, T. W. *see* EDHOLM, O. G. 1091
 BILLEWICZ, W. Z. *see* THOMSON, A. M. 565
 BINES, J. A. and DAVEY, A. W. F. Voluntary intake, digestion, rate of passage, amount of material in the alimentary tract and behaviour in cows receiving complete diets containing straw and concentrates in different proportions 1013
 BJARNASON, J. and CARPENTER, K. J. Mechanisms of heat damage in proteins. 2. Chemical changes in pure proteins 313
 BRAITHWAITE, G. D., GLASCOCK, R. F. and RIAZUDDIN, SH. Calcium metabolism in pregnant ewes 661
 BRAUDE, R., MITCHELL, K. G., NEWPORT, M. J. and PORTER, J. W. G. Artificial rearing of pigs. 1. Effect of frequency and level of feeding on performance and digestion of milk proteins 501
 BRAUDE, R., NEWPORT, M. J. and PORTER, J. W. G. Artificial rearing of pigs. 2. The time course of milk protein digestion and proteolytic enzyme secretion in the 28-day-old pig 827
 BREMNER, I. Zinc, copper and manganese in the alimentary tract of sheep 769
 BREMNER, I. and KNIGHT, A. H. The complexes of zinc, copper and manganese present in ryegrass 279
 BRICE, J. *see* MACDONALD, I. 413
 BUNYAN, J. *see* CAWTHORNE, M. A. 357
- CAHN, A. J. *see* McNAUGHTON, J. W. 331, 345
 CARPENTER, K. J. *see* BJARNASON, J. 313
 CARLTON, W. W. *see* HUNT, C. E. 61
 CARSON, R. B. *see* HIDIROGLOU, M. 917
 CAWTHORNE, M. A., BUNYAN, J., SENNITT, M. V., GREEN, J. and GRASSO, P. Vitamin E and hepatotoxic agents. 3. Vitamin E, synthetic antioxidants and carbon tetrachloride toxicity in the rat 357
- CHATTERJEE, A. K., JAMDAR, S. C. and GHOSH, B. B. Effect of riboflavin deficiency on incorporation in vivo of [¹⁴C]amino acid into liver proteins of rats 635
 CHESTERS, J. K. and QUARTERMAN, J. Effects of zinc deficiency on food intake and feeding patterns of rats 1061
 CHESTERS, J. K. *see also* WILLIAMS, R. B. 1053
 CLAYTON, B. E., HEELEY, A. F. and HEELEY, M. An investigation of the hyperaminoaciduria in phenylketonuria associated with the feeding of certain commercial low-phenylalanine preparations 573
 COATES, M. E., HEWITT, D. and GOLOB, P. A comparison of the effects of raw and heated soya-bean meal in diets for germ-free and conventional chicks 213
 COATES, M. E. *see also* OWEN, E. C. 259
 COLES, B. L. *see* MACDONALD, I. 413
 COLLINS, F. D. *see* SINCLAIR, A. J. 971
 COPPING, A. M. Obituary Notice (Eleanor Margaret Hume) 1
 CORSE, E. L. *see* ØRSKOV, E. R. 803
 CRAWFORD, M. A., HANSEN, I. L. and SOMERS, K. Studies on platelet 5-hydroxytryptamine in East Africans 385
 CRAWFORD, M. A., GALE, M. M., SOMERS, K. and HANSEN, I. L. Studies on plasma amino acids in East African adults in relation to endomyocardial fibrosis 393
 CROOKE, A. C. *see* HOOD, C. E. A. 39
 DANIEL, V. A., DORAISWAMY, T. R., SWAMINATHAN, M. and RAJALAKSHMI, D. The effect of dilution of milk proteins with non-essential amino acids (L-alanine and L-glutamic acid) on nitrogen retention and biological value of the proteins in children 741
 DAVEY, A. W. F. *see* BINES, J. A. 1013
 DORAISWAMY, T. R. *see* DANIEL, V. A. 741
 DOWNES, A. M., REIS, P. J., SHARRY, L. F. and TUNKS, D. A. Evaluation of modified [³⁵S]-methionine and [³⁵S]casein preparations as supplements for sheep 1083
 DRENNAN, M. J., HOLMES, J. H. G. and GARRETT, W. N. A comparison of markers for estimating magnitude of rumen digestion 961
 DURNIN, J. V. G. A. *see* SOUTHGATE, D. A. T. 517
- EADIE, J. M., HYLDGAARD-JENSEN, J., MANN, S. O. REID, R. S. and WHITELAW, F. G. Observations on the microbiology and biochemistry of the rumen in cattle given different quantities of a pelleted barley ration 157
 EASTWOOD, M. A., MOWBRAY, S. L., THOMPSON, R. P. H. and WILLIAMS, R. Dietary fibre and the pruritus of cholestatic jaundice 1029
 EASTY, D. L. The relationship of diet to serum cholesterol levels in young men in Antarctica 307

- EDELSTEIN, S. and GUGGENHEIM, K. Changes in the metabolism of vitamin B₁₂ and methionine in rats fed unheated soya-bean flour 735
- EDHOLM, O. G., ADAM, J. M., HEALY, M. J. R., WOLFF, H. S., GOLDSMITH, R. and BEST, T. W. Food intake and energy expenditure of army recruits 1091
- EGGUM, B. O. The protein quality of cassava leaves 761
- EGGUM, B. O. Blood urea measurement as a technique for assessing protein quality 983
- EMMANUEL, B., LAWLOR, M. J. and McALEESE, D. The effect of phosphate and carbonate-bicarbonate supplements on the rumen buffering systems of sheep 653
- FALTOVÁ, E. *see* PAŘÍZKOVÁ, J. 3
- FARUQUE, O. and WALKER, D. M. Vitamin A and protein interrelationships in the milk-fed lamb 11
- FARUQUE, O. and WALKER, D. M. The relative biological potencies of retinyl palmitate and β -carotene for the milk-fed lamb 23
- FIELD, A. C. Studies on magnesium in ruminant nutrition. 10. Effect of lactation on the excretion of magnesium and faecal dry matter by grazing monozygotic twin cows 71
- FIELD, A. C. Studies on magnesium in ruminant nutrition. 11. Effect of lactation on the excretion of calcium and potassium by grazing monozygotic twin cows 85
- FLETCHER, R. F. *see* HOOD, C. E. A. 39
- FLORES, H., PAK, N., MACCIONI, A. and MONCKEBERG, F. Lipid transport in kwashiorkor 1005
- FOOT, J. Z. and GREENHALGH, J. F. D. The use of deuterium oxide space to determine the amount of body fat in pregnant Blackface ewes 815
- FRASER, C. *see* ØRSKOV, E. R. 671, 803
- FREEMAN, C. P., NOAKES, D. E. and ANNISON, E. F. The metabolism of glucose, acetate, palmitate, stearate and oleate in pigs 705
- GALE, M. M. *see* CRAWFORD, M. A. 393
- GARRETT, W. N. *see* DRENNAN, M. J. 961
- GASTON, H. J. *see* ROY, J. H. B. 441, 459
- GERTLER, A. and NITSAN, Z. The effect of trypsin inhibitors on pancreatopeptidase E, trypsin, chymotrypsin and amylase in the pancreas and intestinal tract of chicks receiving raw and heated soya-bean diets 893
- GHOSH, B. B. *see* CHATTERJEE, A. K. 635
- GLASCOCK, R. F. *see* BRAITHWAITE, G. D. 661
- GLOSTER, J. *see* HOOD, C. E. A. 39
- GOLDSMITH, R. *see* EDHOLM, O. G. 1091
- GOLOB, P. *see* COATES, M. E. 213
- GOODALL, E. D. *see* MALOIJ, G. M. O. 843
- GOODHART, J. M. *see* HOOD, C. E. A. 39
- GRASSO, P. *see* CAWTHORNE, M. A. 357
- GRAY, F. V. *see* PILGRIM, A. F. 589
- GRAY, J. M. *see* SHORLAND, F. B. 717
- GREATOREX, J. C. *see* ROY, J. H. B. 441
- GREEN, J. *see* CAWTHORNE, M. A. 357
- GREENHALGH, J. F. D. *see* FOOT, J. Z. 815
- GRIMBLE, R. F. and WHITEHEAD, R. G. Changes in the concentration of specific amino acids in the serum of experimentally malnourished pigs 557
- GUGGENHEIM, K. *see* EDELSTEIN, S. 735
- HANSEN, I. L. *see* CRAWFORD, M. A. 385, 393
- HARRAND, R. B. and HARTLES, R. L. The effect of vitamin D in rats maintained on diets with different mineral content but with the same calcium to phosphorus ratio of unity 929
- HARTLES, R. L. *see* HARRAND, R. B. 929
- HEALY, M. J. R. *see* EDHOLM, O. G. 1091
- HEELEY, A. F. *see* CLAYTON, B. E. 573
- HEELEY, M. *see* CLAYTON, B. E. 573
- HENNING, S. J. and HIRD, F. J. R. Concentrations and metabolism of volatile fatty acids in the fermentative organs of two species of kangaroo and the guinea-pig 145
- HEWITT, D. *see* COATES, M. E. 213
- HIDIROGLOU, M., JENKINS, K. J., LESSARD, J. R. and CARSON, R. B. Metabolism of vitamin E in sheep 917
- HINDSON, T. C. Ascorbic acid status of Europeans resident in the tropics 801
- HIRD, F. J. R. *see* HENNING, S. J. 145
- HIRD, F. J. R. *see* HOOGENRAAD, N. J. 119, 129
- HOLMES, J. H. G. *see* DRENNAN, M. J. 961
- HOOD, C. E. A., GOODHART, J. M., FLETCHER, R. F., GLOSTER, J., BERTRAND, P. V. and CROOKE, A. C. Observations on obese patients eating isocaloric reducing diets with varying proportions of carbohydrate 39
- HOOGENRAAD, N. J. and HIRD, F. J. R. The chemical composition of rumen bacteria and cell walls from rumen bacteria 119
- HOOGENRAAD, N. J., HIRD, F. J. R., WHITE, R. G. and LENG, R. A. Utilization of ¹⁴C-labelled *Bacillus subtilis* and *Escherichia coli* by sheep 129
- HUMPHRIES, W. R. *see* QUARTERMAN, J. 1049
- HUNT, C. E., CARLTON, W. W. and NEWBERNE, P. M. Interrelationships between copper deficiency and dietary ascorbic acid in the rabbit 61
- HUNT, C. E., LANDESMAN, J. and NEWBERNE, P. M. Copper deficiency in chicks: effects of ascorbic acid on iron, copper, cytochrome oxidase activity, and aortic mucopolysaccharides 607
- HYLDGAARD-JENSEN, J. *see* EADIE, J. M. 157
- HYLDGAARD-JENSEN, J. *see* WHITELAW, F. G. 179
- HYTTEN, F. E. *see* THOMSON, A. M. 565
- JAMDAR, S. C. *see* CHATTERJEE, A. K. 635
- JENKINS, K. J. *see* HIDIROGLOU, M. 917
- JOURDAN, M. H. *see* MACDONALD, I. 413
- KANAWATI, A. A. *see* McLAREN, D. S. 641
- KARUNANAYAKE, E. *see* MAHADEVA, K. 811
- KAY, M. G. *see* WHITELAW, F. G. 179
- KAY, R. N. B. *see* MALOIJ, G. M. O. 843
- KAY, R. N. B. *see* ØRSKOV, E. R. 785
- KELLEHER, J. and LOSOWSKY, M. S. The absorption of α -tocopherol in man 1033

- KNIGHT, A. H. *see* BREMNER, I. 279
- LANDESMAN, J. *see* HUNT, C. E. 607
- LAWLOR, M. J. *see* EMMANUEL, B. 653
- LENG, R. A. *see* HOOGENRAAD, N. J. 129
- LENG, R. A. *see* NOLAN, J. V. 905
- LESSARD, J. R. *see* HIDIROGLOU, M. 917
- LOSHKAJIAN, H. *see* MCLAREN, D. S. 641
- LOSOWSKY, M. S. *see* KELLEHER, J. 1033
- McALEESE, D. *see* EMMANUEL, B. 653
- MCALLAN, A. B. *see* SMITH, R. H. 545
- MACCIONI, A. *see* FLORES, H. 1005
- MCCULLAGH, K. G. and WIDDOWSON, E. M. The milk of the African elephant 109
- MACDONALD, I. Effects of dietary glycerol on the serum glyceride level of men and women 537
- MACDONALD, I., COLES, B. L., BRICE, J. and JOURDAN, M. H. The influence of frequency of sucrose intake on serum lipid, protein and carbohydrate levels 413
- MCLAREN, D. S., LOSHKAJIAN, H. and KANAWATI, A. A. Urinary creatinine and hydroxyproline in relation to childhood malnutrition 641
- MCCAUGHTON, J. W. and CAHN, A. J. A study of the food intake and activity of a group of urban adolescents 331
- MCCAUGHTON, J. W. and CAHN, A. J. A study of the energy expenditure and food intake of five boys and four girls 345
- MAHADEVA, K. and KARUNANAYAKE, E. Salt intake in Ceylon 811
- MALCOLM, L. A. Growth retardation in a New Guinea boarding school and its response to supplementary feeding 297
- MALOY, G. M. O., KAY, R. N. B., GOODALL, E. D. and TOPPS, J. H. Digestion and nitrogen metabolism in sheep and red deer given large or small amounts of water and protein 843
- MANN, S. O. *see* EADIE, J. M. 157
- MANN, S. O. *see* ØRSKOV, E. R. 671
- MARSTON, H. R. The requirement of sheep for cobalt or for vitamin B₁₂ 615
- MARSTON, H. R. *see also* SMITH, R. H. 857, 879
- MARTIN, A. K. The urinary aromatic acids excreted by sheep given S 24 perennial ryegrass cut at six stages of maturity 943
- MASON, V. C. *see* ØRSKOV, E. R. 671
- MAWER, G. E. *see* NIXON, S. E. 227, 241
- MILLS, C. F. *see* WILLIAMS, R. B. 989
- MITCHELL, K. G. *see* BRAUDE, R. 501
- MONCKEBERG, F. *see* FLORES, H. 1005
- MOWBRAY, S. L. *see* EASTWOOD, M. A. 1029
- NARASINGA RAO, B. S. *see* ANASUYA, A. 97
- NEWBERNE, P. M. *see* HUNT, C. E. 61, 607
- NEWPORT, M. J. *see* BRAUDE, R. 501, 827
- NITSAN, Z. *see* GERTLER, A. 893
- NIXON, S. E. and MAWER, G. E. The digestion and absorption of protein in man. 1. The site absorption 227
- NIXON, S. E. and MAWER, G. E. The digestion and absorption of protein in man. 2. The form in which digested protein is absorbed 241
- NOAKES, D. E. *see* FREEMAN, C. P. 705
- NOLAN, J. V. and LENG, R. A. Metabolism of urea in late pregnancy and the possible contribution of amino acid carbon to glucose synthesis in sheep 905
- OSIFO, 'B. O. A. The effect of diet on the haemoglobin and haematocrit values of some Nigerian village children 683
- OSIFO, 'B. O. A. The effect of folic acid and iron in the prevention of nutritional anaemias in pregnancy in Nigeria 689
- ØRSKOV, E. R., BENZIE, D. and KAY, R. N. B. The effects of feeding procedure on closure of the oesophageal groove in young sheep 785
- ØRSKOV, E. R., FRASER, C. and CORSE, E. L. The effect on protein utilization of feeding different protein supplements via the rumen or via the abomasum in young growing sheep 803
- ØRSKOV, E. R., FRASER, C., MASON, V. C. and MANN, S. O. Influence of starch digestion in the large intestine of sheep on caecal fermentation, caecal microflora and faecal nitrogen excretion 671
- OSUNTOKUN, B. O. Cassava diet and cyanide metabolism in Wistar rats 797
- OWEN, E. C. and WEST, D. W. Metabolites of riboflavine in milk, urine and tissues of animals in relation to alimentary symbiotic bacteria 45
- OWEN, E. C., WEST, D. W. and COATES, M. E. Metabolism of riboflavine in germ-free and conventional rabbits 259
- PAK, N. *see* FLORES, H. 1005
- PAŘÍZKOVÁ, J. and FALTOVÁ, E. Physical activity, body fat and experimental cardiac necrosis 3
- PEARSON, C. K. and BARNES, M. MCC. The absorption and distribution of the naturally occurring tocochromanols in the rat 581
- PFEFFER, E., THOMPSON, A. and ARMSTRONG, D. G. Studies on intestinal digestion in the sheep. 3. Net movement of certain inorganic elements in the digestive tract on rations containing different proportions of hay and rolled barley 197
- PILGRIM, A. F., GRAY, F. V., WELLER, R. A. and BELLING, C. B. Synthesis of microbial protein from ammonia in the sheep's rumen and the proportion of dietary nitrogen converted into microbial nitrogen 589
- POOLE, D. A. and ALLEN, D. M. Utilization of salts of volatile fatty acids by growing sheep. 5. Effects of type of fermentation of the basal diet on the utilization of salts of acetic acid for body gains 695
- PORTER, J. W. G. *see* BRAUDE, R. 501, 827
- QUARTERMAN, J., WILLIAMS, R. B. and HUMPHRIES, W. R. An apparatus for the regulation of the food supply to rats 1049
- QUARTERMAN, J. *see also* CHESTERS, J. K. 1061
- RAJALAKSHMI, D. *see* DANIEL, V. A. 741

- RASMUSSEN, P. The action of vitamin D on the degree of mineralization of bone tissue in rats given adequate amounts of calcium and phosphorus in the diet. A microradiographic study 29
- REID, R. S. *see* EADIE, J. M. 157
- REID, R. S. *see* WHITELAW, F. G. 179
- REIS, P. J. *see* DOWNES, A. M. 1083
- RIAZUDDIN, SH. *see* BRAITHWAITE, G. D. 661
- ROBINSON, M. F. *see* SHARPE, S. J. 489
- ROOK, J. A. F. *see* WITTER, R. C. 269, 749
- ROY, J. H. B., STOBO, I. J. F. and GASTON, H. J. The nutrition of the veal calf. 3. A comparison of liquid skim milk with a diet of reconstituted spray-milk skim-milk powder containing 20% margarine fat 459
- ROY, J. H. B., STOBO, I. J. F., GASTON, H. J. and GREATOREX, J. C. The nutrition of the veal calf. 2. The effect of different levels of protein and fat in milk substitute diets 441
- RYAN, D. and WARREN, P. J. The uptake of radioactive copper by the brain and other tissues of the developing rat 727
- SCOUGALL, R. K. *see* TAYLOR, T. G. 1071
- SENNITT, M. V. *see* CAWTHORNE, M. A. 357
- SHARPE, S. J. and ROBINSON, M. F. Intermittent and continuous faecal markers in short-term metabolic balance studies in young women 489
- SHARRY, L. F. *see* DOWNES, A. M. 1083
- SHORLAND, F. B. and GRAY, J. M. The preparation of nutritious protein from wool 717
- SINCLAIR, A. J. and COLLINS, F. D. The effect of dietary essential fatty acids on the concentration of serum and liver lipids in the rat 971
- SMITH, R. H. and MCALLAN, A. B. Nucleic acid metabolism in the ruminant. 2. Formation of microbial nucleic acids in the rumen in relation to the digestion of food nitrogen, and the fate of dietary nucleic acids 545
- SMITH, R. M. and MARSTON, H. R. Production, absorption, distribution and excretion of vitamin B₁₂ in sheep 857
- SMITH, R. M. and MARSTON, H. R. Some metabolic aspects of vitamin B₁₂ deficiency in sheep 879
- SOMERS, K. *see* CRAWFORD, M. A. 385, 393
- SOUTHGATE, D. A. T. and DURNIN, J. V. G. A. Calorie conversion factors. An experimental reassessment of the factors used in the calculation of the energy value of human diets 517
- SPINCER, J. *see* WITTER, R. C. 269
- SPRAY, G. H. *see* WILLIAMS, D. L. 405
- STOBO, I. J. F. *see* ROY, J. H. B. 441, 459
- STOKES, G. B. and WALKER, D. M. The nutritive value of fat in the diet of the milk-fed lamb. 2. The effect of different dietary fats on the composition of the body fats 435
- STOKES, G. B. *see also* WALKER, D. M. 425
- SUKHATME, P. V. Incidence of protein deficiency in relation to different diets in India 477
- SWAMINATHAN, M. *see* DANIEL, V. A. 741
- TAYLOR, T. G., WARING, J. J. and SCOUGALL, R. K. Changes in the plasma concentrations of free amino acids in relation to egg formation in the hen 1071
- THOMPSON, A. *see* PFEFFER, E. 197
- THOMPSON, R. P. H. *see* EASTWOOD, M. A. 1029
- THOMSON, A. M., HYTEN, F. E. and BILLEWICZ, W. Z. The energy cost of human lactation 565
- TOPPS, J. H. *see* MALOIJ, G. M. O. 843
- TOWERS, K. G. *see* WITTER, R. C. 269
- TUNKS, D. A. *see* DOWNES, A. M. 1083
- VERCOE, J. E. The fasting metabolism of Brahman, Africander and Hereford × Shorthand cattle 599
- WALKER, D. M. and STOKES, G. B. The nutritive value of fat in the diet of the milk-fed lamb. 1. The apparent and corrected digestibilities of different dietary fats and of their constituent fatty acids 425
- WALKER, D. M. *see also* FARUQUE, O. 11, 23
- WALKER, D. M. *see also* STOKES, G. B. 435
- WARING, J. J. *see* TAYLOR, T. G. 1071
- WARREN, P. J. *see* RYAN, D. 727
- WELLER, R. A. *see* PILGRIM, A. F. 589
- WEST, D. W. *see* OWEN, E. C. 45, 259
- WHITE, R. G. *see* HOOGENRAAD, N. J. 129
- WHITEHEAD, R. G. *see* GRIMBLE, R. F. 557
- WHITELAW, F. G., HYLDGAARD-JENSEN, J., REID, R. S. and KAY, M. G. Volatile fatty acid production in the rumen of cattle given an all-concentrate diet 179
- WHITELAW, F. G. *see also* EADIE, J. M. 157
- WIDDOWSON, E. M. *see* McCULLAGH, K. G. 109
- WILLIAMS, D. L. and SPRAY, G. H. The effect of antibiotics on rats receiving a vitamin B₁₂-deficient diet 405
- WILLIAMS, R. *see* EASTWOOD, M. A. 1029
- WILLIAMS, R. B. and CHESTERS, J. K. The effects of early zinc deficiency on DNA and protein synthesis in the rat 1053
- WILLIAMS, R. B. and MILLS, C. F. The experimental production of zinc deficiency in the rat 989
- WILLIAMS, R. B. *see also* QUARTERMAN, J. 1049
- WITTER, R. C., SPINCER, J., ROOK, J. A. F. and TOWERS, K. G. The effects of intravenous infusions of triglycerides on the composition of milk fat in the sow 269
- WITTER, R. C. and ROOK, J. A. F. The influence of the amount and nature of dietary fat on milk fat composition in the sow 749
- WOLFF, H. S. *see* EDHOLM, O. G. 1091