

Index of Authors

- ABLETT, J. G. and McCANCE, R. A. Severe under-nutrition in growing and adult animals. 19. The metabolic rates and body temperatures of calorie-deficient and protein-deficient pigs 265
- ALLEYNE, G. A. O., HALLIDAY, D., WATERLOW, J. C. and NICHOLS, B. L. Chemical composition of organs of children who died from malnutrition 783
- ANNISON, E. F. *see LINZELL, J. L.* 319
- ARMSTRONG, D. G. *see MACRAE, J. C.* 15, 377
- ASHBY, E. C. *see MOTT, T. J.* 497
- ASHWORTH, A. Growth rates in children recovering from protein-calorie malnutrition 835
- BALCH, C. C. *see BINES, J. A.* 695
- BARNES, M. MCC. *see LEE, D. J. W.* 289
- BARONOS, S., MANN, T., ROWSON, L. E. A. and SKINNER, J. D. The effect of nutrition and androgens on the composition of bovine blood plasma and seminal plasma at puberty 191
- BARRETT, I. M. *see PLATT, B. S.* 181
- BEGUM, A. and PEREIRA, S. M. Calcium balance studies on children accustomed to low calcium intakes 905
- BELLING, G. B. *see PILGRIM, A. F.* 647
- BENZIE, D. *see ØRSKOV, E. R.* 415
- BINES, J. A., SUZUKI, S. and BALCH, C. C. The quantitative significance of long-term regulation of food intake in the cow 695
- BJARNASON, J. and CARPENTER, K. J. Mechanisms of heat damage in proteins. 1. Models with acylated lysine units 859
- BONDI, A. *see DROR, Y.* 727
- BOWLAND, J. P. *see DROULIS COS, N. J.* 113
- BRAITHWAITE, G. D., GLASCOCK, R. F. and RIAZUDDIN, SH. Calcium metabolism in lactating ewes 827
- BRAUDE, R. *see MOORE, J. H.* 281
- BRECKENRIDGE, G. *see CZERKAWSKI, J. W.* 51, 67, 559, 925
- BRIEN, R. L. *see LAKSHMANAN, M. R.* 25
- BUCHANAN, R. A. In vivo and in vitro methods of measuring nutritive value of leaf-protein preparations 533
- BUNYAN, J., CAWTHORNE, M. A., DIPLOCK, A. T. and GREEN, J. Vitamin E and hepatotoxic agents. 2. Lipid peroxidation and poisoning with orotic acid, ethanol and thioacetamide in rats 309
- BUNYAN, J. *see also GREEN, J.* 297
- BURNS, D. G. and SPRAY, G. H. Normal folic acid metabolism in iron-deficient rats 665
- CARPENTER, K. J. *see BJARNASON, J.* 859
- CAWTHORNE, M. A. *see BUNYAN, J.* 309
- CAWTHORNE, M. A. *see GREEN, J.* 297
- CHAMBERS, M. A. and LEWIS, H. E. Nutritional study of the Islanders on Tristan da Cunha, 1966. 2. The energy expenditure and food intake of Tristan Islanders 237
- CHAMBERS, M. A. and SOUTHGATE, D. A. T. Nutritional study of the Islanders on Tristan da Cunha, 1966. 1. The foods eaten by Tristan Islanders, their methods of preparation and composition 227
- CHATTERJEE, A. K., ROY, A. D. and GHOSH, B. B. Effect of riboflavin deficiency on nucleic acid metabolism of liver in the rat 657
- CHEESMAN, E. M. and COPPING, A. M. Studies of the action of vitamin D in the rat 371
- CHRISTIE, B. A. *see PLATT, B. S.* 181
- CHRISTIE, W. W. *see MOORE, J. H.* 281
- CLAPPERTON, J. L. and CZERKAWSKI, J. W. Methane production and soluble carbohydrates in the rumen of sheep in relation to the time of feeding and the effects of short-term intraruminal infusions of unsaturated fatty acids 813
- COLES, B. L. The influence on serum protein concentration of the protein intake in high-carbohydrate diets 401
- COPPING, A. M. *see CHEESMAN, E. M.* 371
- COWARD, W. A., HOWELL, J. MCC., THOMPSON, J. N. and PITTS, G. A. J. The retinol requirements of rats for spermatogenesis and vision 619
- CZERKAWSKI, J. W. and BRECKENRIDGE, G. The fermentation of sugar-beet pulp and sucrose in an artificial rumen, and the effect of linseed oil fatty acids on the fermentation 51
- CZERKAWSKI, J. W. and BRECKENRIDGE, G. The effect of oxygen on fermentation of sucrose by rumen micro-organisms in vitro 67
- CZERKAWSKI, J. W. and BRECKENRIDGE, G. Distribution of polyethylene glycol in suspensions of food particles, especially sugar-beet pulp and dried grass pellets 559
- CZERKAWSKI, J. W. and BRECKENRIDGE, G. Fermentation of various soluble carbohydrates by rumen micro-organisms with particular reference to methane production 925
- CZERKAWSKI, J. W. *see also CLAPPERTON, J. L.* 813
- CZERKAWSKI, J. W. *see also MOORE, J. H.* 869
- DANIEL, V. A. *see DORAISWAMY, T. R.* 737
- DICKERSON, J. W. T. and JOHN, P. M. V. The effect of protein-calorie malnutrition on the composition of the human femur 917
- DINGLE, J. T. *see IQBAL, M.* 31
- DIPLOCK, A. T. *see BUNYAN, J.* 309
- DIPLOCK, A. T. *see GREEN, J.* 297
- DORAISWAMY, T. R., SINGH, N. and DANIEL, V. A. Effects of supplementing ragi (*Eleusine coracana*) diets with lysine or leaf protein on the growth and nitrogen metabolism of children 737

- DROR, Y., MAYEVSKY, A. and BONDI, A. Some effects of starch on protein utilization by sheep 727
- DROULISCOS, N. J. and BOWLAND, J. P. Biological evaluation of rapeseed meal, soya-bean meal and casein fed to the weanling and the mature rat 113
- DUNCAN, W. R. H. *see* GARTON, G. A. 421
- ELLIS, H. *see* MOTT, T. J. 497
- EMMANUEL, B., LAWLOR, M. J. and MCALEESE, D. M. The rumen buffering system of sheep fed pelleted roughage-concentrate rations 805
- FIELD, A. C. *see* SUTTLE, N. F. 81
- FLANNERY, B. P. *see* MOTT, T. J. 497
- FLATT, W. P. *see* ØRSKOV, E. R. 443
- FRASER, C. *see* ØRSKOV, E. R. 217
- FRASER, D. R. and KODICEK, E. The metabolism and biological activity of esterified vitamin D in the rat 135
- FREEMAN, C. P. Properties of fatty acids in dispersions of emulsified lipid and bile salt and the significance of these properties in fat absorption in the pig and the sheep 249
- GARTON, G. A. and DUNCAN, W. R. H. Effect of diet and rumen development on the composition of adipose tissue triglycerides of the calf 421
- GHOSH, B. B. *see* CHATTERJEE, A. K. 657
- GLASCOCK, R. F. *see* BRAITHWAITE, G. D. 827
- GOSWAMI, A. K., SHARMA, K. P. and SEHGAL, K. L. Nutritive value of proteins of pearl millet of high-yielding varieties and hybrids 913
- GRAY, F. V. *see* PILGRIM, A. F. 647
- GRAY, F. V. *see* WELLER, R. A. 97
- GREEN, J., BUNYAN, J., CAWTHORNE, M. A. and DIPLOCK, A. T. Vitamin E and hepatotoxic agents. I. Carbon tetrachloride and lipid peroxidation in the rat 297
- GREEN, J. *see also* BUNYAN, J. 309
- GRIMBLE, R. F., SAWYER, M. B. and WHITEHEAD, R. G. Time relationships between the elevation of the serum amino acid ratio and changes in liver composition in malnourished rats 879
- GRIMBLE, R. F. and WHITEHEAD, R. G. The relationship between an elevated serum amino acid ratio and the development of other biological abnormalities in the experimentally malnourished pig 791
- GUSTAFSSON, B. E. and NORMAN, A. Influence of the diet on the turnover of bile acids in germ-free and conventional rats 429
- GUSTAFSSON, B. E. and NORMAN, A. Influence of the diet on the composition of faecal bile acids in rats 627
- HALFPENNY, A. F., ROOK, J. A. F. and SMITH, G. H. Variations with energy nutrition in the concentrations of amino acids of the blood plasma in the dairy cow 547
- HALL, A. J. *see* STORRY, J. E. 157, 173
- HALL, G. A. and HOWELL, J. McC. The effect of copper deficiency on reproduction in the female rat 41
- HALL, G. A. *see also* HOWELL, J. McC. 47
- HALLIDAY, D. *see* ALLEYNE, G. A. O. 783
- HARRAND, R. B. and HARTLES, R. L. A study on the effect of vitamin D in rats maintained on diets with different calcium and phosphorus content but with the same high ratio of calcium to phosphorus 523
- HARTLES, R. L. *see* HARRAND, R. B. 523
- HEARD, C. R. C., KRIEGLSMAN, S. M. and PLATT, B. S. The interpretation of plasma amino acid ratios in protein-calorie deficiency 203
- HEMKEN, R. W. *see* ØRSKOV, E. R. 443
- HENSCHEL, M. J. *see* SIDDONS, R. C. 333
- HILL, W. B. *see* SIDDONS, R. C. 333
- HOWELL, J. McC. and HALL, G. A. Histological observations on foetal resorption in copper-deficient rats 47
- HOWELL, J. McC. *see also* COWARD, W. A. 619
- HOWELL, J. McC. *see also* HALL, G. A. 41
- HOWELL, J. McC. *see also* THOMPSON, J. N. 471
- HUANG, P. C. *see* YOUNG, V. R. 271
- HUGHES, R. E. and HURLEY, R. J. The uptake of D-araboascorbic acid (D-isoascorbic acid) by guinea-pig tissues 211
- HURLEY, R. J. *see* HUGHES, R. E. 211
- IQBAL, M., DINGLE, J. T., MOORE, T. and SHARMAN, I. M. Nutrition and lysosomal activity. The effect of dietary cod-liver oil on the distribution of polyunsaturated fatty acids in the kidney lysosomes of rats receiving deficient or adequate intakes of vitamin E 31
- JOHN, P. M. V. *see* DICKERSON, J. W. T. 917
- JONES, A. S. *see* WHITE, F. 847
- KATZ, I. *see* ØRSKOV, E. R. 443
- KAY, R. N. B. *see* ØRSKOV, E. R. 217
- KODICEK, E. *see* FRASER, D. R. 135
- KRIEGLSMAN, S. M. *see* HEARD, C. R. C. 203
- KRISHNA MURTI, C. R. *see* SABRI, M. I. 505
- KUMTA, U. S. *see* NINJOOR, V. 755
- KUMTA, U. S. *see* PADWALDESAI, S. R. 745
- LAKSHMANAN, M. R., PHILLIPS, W. E. J. and BRIEN, R. L. Vitamin A status and the metabolism of cholesterol in the rat 25
- LANGLANDS, J. P. and SUTHERLAND, H. A. M. An estimate of the nutrients utilized for live-weight gain by Merino sheep 603
- LAWLOR, M. J. *see* EMMANUEL, B. 805
- LEE, D. J. W. and BARNES, M. McC. The effects of vitamin E deficiency on the total fatty acids and the phospholipid fatty acids of rat tissues 289
- LEHMANN, R. P. *see* MARSHALL, M. W. 353
- LEWIS, H. E. *see* CHAMBERS, M. A. 237

- LINZELL, J. L., MEPHAM, T. B., ANNISON, E. F. and WEST, C. E. Mammary metabolism in lactating sows: arteriovenous differences of milk precursors and the mammary metabolism of [¹⁴C]glucose and [¹⁴C]acetate 319
- MCALLAN, A. B. and SMITH, R. H. Nucleic acid metabolism in the ruminant. Determination of nucleic acids in digesta 671
- MCALEESE, D. M. *see* EMMANUEL, B. 805
- MCCANCE, R. A. *see* ABLETT, J. G. 265
- MCDONALD, I. *see* WHITE, F. 847
- MCLAUGHLIN, C. I. *see* THOMPSON, J. N. 471
- MACRAE, J. C. and ARMSTRONG, D. G. Studies on intestinal digestion in the sheep. 1. The use of chromic oxide as an indigestible marker 15
- MACRAE, J. C. and ARMSTRONG, D. G. Studies on intestinal digestion in the sheep. 2. Digestion of some carbohydrate constituents in hay, cereal and hay-cereal rations 377
- MADGE, D. S. Effect of antibiotics on intestinal absorption in mice 637
- MANN, T. *see* BARONOS, S. 191
- MARSHALL, M. W., SMITH, B. P., MUNSON, A. W. and LEHMANN, R. P. Prediction of carcass fat from body measurements made on live rats differing in age, sex and strain 353
- MARTIN, A. K. Urinary excretion of aromatic acids by sheep given diets containing different amounts of protein and roughage 389
- MARTIN, A. K. The urinary excretion of aromatic acids by starved sheep 715
- MAYEVSKY, A. *see* DROR, Y. 727
- MEPHAM, T. B. *see* LINZELL, J. L. 319
- MILLARD, D. *see* STORRY, J. E. 173
- MITCHELL, K. G. *see* MOORE, J. H. 281
- MITTWOCH, A. *see* NAISMITH, D. J. 683
- MOE, P. W. *see* ØRSKOV, E. R. 443
- MOKADY, S., VIOLA, S. and ZIMMERMANN, G. A new biological method for estimating food protein nutritive value 491
- MOORE, J. H. The effect of diets containing different proportions of butterfat and maize oil on plasma lipids and aortic atherosclerosis in rabbits 125
- MOORE, J. H., CHRISTIE, W. W., BRAUDE, R. and MITCHELL, K. G. The effect of dietary copper on the fatty acid composition and physical properties of pig adipose tissues 281
- MOORE, J. H. and NOBLE, R. C. Dietary linoleic acid and the plasma phospholipids of the rabbit 611
- MOORE, J. H., NOBLE, R. C. and STEELE, W. The incorporation of linolenic and linoleic acids into the plasma lipids of sheep given intra-abomasal infusions of linseed oil, maize oil or linoleic acid 141
- MOORE, J. H., NOBLE, R. C., STEELE, W. and CZERKAWSKI, J. W. Differences in the metabolism of esterified and unesterified linoleic acid by rumen micro-organisms 869
- MOORE, J. H. *see also* NOBLE, R. C. 709
- MOORE, T. *see* IQBAL, M. 31
- MORGAN, B., THOMPSON, J. N. and PITTS, G. A. J. The uptake and metabolism of retinol, retinoic acid and methyl retinoate by the early chick embryo 899
- MOTT, T. J., ASHBY, E. C., FLANNERY, B. P. and ELLIS, H. The effect of protein deficiency upon peritoneal healing and peritoneal wound contraction in the rat 497
- MOUNT, L. E. The respiratory quotient in the newborn pig 407
- MUNSON, A. W. *see* MARSHALL, M. W. 353
- MUNSON, A. W. *see* ØRSKOV, E. R. 443
- NAISMITH, D. J., MITTWOCH, A. and PLATT, B. S. Changes in composition of rat's milk in the stomach of the suckling 683
- NATH, M. C. and SHASTRI, N. V. Effect of acetooacetate on urinary excretion of xanthurenic acid and other tryptophan metabolites in rats 153
- NATH, M. C. and SHASTRI, N. V. Effect of acetooacetate administration on urinary and tissue vitamin B₆ in rats 705
- NEWMAN, G. E. *see* WILLIAMS, D. L. 343
- NICHOLS, B. L. *see* ALLEYNE, G. A. O. 783
- NICHOLSON, J. W. G. and SUTTON, J. D. The effect of diet composition and level of feeding on digestion in the stomach and intestines of sheep 585
- NINJOOR, V., SAROJA, S., PADWALDESAI, S. R., SAWANT, P. L., KUMTA, U. S. and SREENIVASAN, A. Liver lysosomes in protein-starved rats 755
- NINJOOR, V. *see also* PADWALDESAI, S. R. 745
- NOBLE, R. C., STEELE, W. and MOORE, J. H. The incorporation of linoleic acid into the plasma lipids of sheep given intraruminal infusions of maize oil or free linoleic acid 709
- NOBLE, R. C. *see also* MOORE, J. H. 141, 611, 869
- NORMAN, A. *see* GUSTAFSSON, B. E. 429, 627
- O'BRIEN, J. R. P. *see* WILLIAMS, D. L. 343
- ØRSKOV, E. R. and BENZIE, D. Studies on the oesophageal groove reflex in sheep and on the potential use of the groove to prevent the fermentation of food in the rumen 415
- ØRSKOV, E. R., FLATT, W. P., MOE, P. W., MUNSON, A. W., HEMKEN, R. W. and KATZ, I. The influence of ruminal infusion of volatile fatty acids on milk yield and composition and on energy utilization by lactating cows 443
- ØRSKOV, E. R., FRASER, C. and KAY, R. N. B. Dietary factors influencing the digestion of starch in the rumen and small and large intestine of early weaned lambs 217
- OWEN, E. C. *see* WEST, D. W. 889
- PADWALDESAI, S. R., NINJOOR, V., RAMAKRISHNAN, T. V., SAWANT, P. L., KUMTA, U. S. and SREENIVASAN, A. Protein deficiency in spaced-fed rats 745
- PADWALDESAI, S. R. *see also* NINJOOR, V. 755
- PEREIRA, S. M. *see* BEGUM, A. 905
- PHILLIPS, W. E. J. *see* LAKSHMANAN, M. R. 25

- PILGRIM, A. F., GRAY, F. V. and BELLING, G. B. Production and absorption of ammonia in the sheep's stomach 647
- PILGRIM, A. F. *see also* WELLER, R. A. 97
- PIPER, K. G. *see* SPRY, C. J. F. 91
- PITT, G. A. J. *see* COWARD, W. A. 619
- PITT, G. A. J. *see* MORGAN, B. 899
- PITT, G. A. J. *see* THOMPSON, J. N. 471
- PLATT, B. S., BARRETT, I. M. and CHRISTIE, B. A. The effect of chronic dietary protein-calorie deficiency on reproductive performance of rats: respiratory metabolism of ova 181
- PLATT, B. S. *see also* HEARD, C. R. C. 203
- PLATT, B. S. *see also* NAISMITH, D. J. 683
- PORTER, J. W. G. *see* SIDDONS, R. C. 333
- RAMAKRISHNAN, T. V. *see* PADWALDESAI, S. R. 745
- RATTRAY, E. A. S. *see* WHITE, F. 847
- RIAZUDDIN, SH. *see* BRAITHWAITE, G. D. 827
- ROOK, J. A. F. *see* HALFPENNY, A. F. 547
- ROWSON, L. E. A. *see* BARONOS, S. 191
- ROY, A. D. *see* CHATTERJEE, A. K. 657
- ROY, J. H. B. *see* TAGARI, H. 763
- RUTISHAUSER, I. H. E. and WHITEHEAD, R. G. Field evaluation of two biochemical tests which may reflect nutritional status in three areas of Uganda 1
- SABRI, M. I., SHARMA, S. K. and KRISHNA MURTI, C. R. Growth inhibitory action of saccharin and cyclamate on rats receiving a poor rice diet 505
- SAROJA, S. *see* NINJOOR, V. 755
- SAWANT, P. L. *see* NINJOOR, V. 755
- SAWANT, P. L. *see* PADWALDESAI, S. R. 745
- SAWYER, M. B. *see* GRIMBLE, R. F. 879
- SEHGAL, K. L. *see* GOSWAMI, A. K. 913
- SHARMA, K. P. *see* GOSWAMI, A. K. 913
- SHARMA, S. K. *see* SABRI, M. I. 505
- SHARMAN, G. A. M. *see* WHITE, F. 847
- SHARMAN, I. M. *see* IQBAL, M. 31
- SHASTRI, N. V. *see* NATH, M. C. 153, 705
- SIDDONS, R. C., SMITH, R. H., HENSCHEL, M. J., HILL, W. B. and PORTER, J. W. G. Carbohydrate utilization in the pre-ruminant calf 333
- SINGH, N. *see* DORAISWAMY, T. R. 737
- SKINNER, J. D. *see* BARONOS, S. 191
- SMITH, B. P. *see* MARSHALL, M. W. 353
- SMITH, G. H. *see* HALFPENNY, A. F. 547
- SMITH, R. H. *see* McALLAN, A. B. 671
- SMITH, R. H. *see* SIDDONS, R. C. 333
- SOUTHGATE, D. A. T. *see* CHAMBERS, M. A. 227
- SPRAY, G. H. *see* BURNS, D. G. 665
- SPRAY, G. H. *see* WILLIAMS, D. L. 343
- SPRY, C. J. F. and PIPER, K. G. Increased retention of orally administered zinc and raised blood cell zinc concentrations in iron-deficient rats 91
- SREENIVASAN, A. *see* NINJOOR, V. 755
- SREENIVASAN, A. *see* PADWALDESAI, S. R. 745
- STEELE, W. *see* MOORE, J. H. 141, 869
- STORRY, J. E., HALL, A. J., TUCKLEY, B. and MILLARD, D. The effects of intravenous infusions of cod-liver and soya-bean oils on the secretion of milk fat in the cow 173
- STORRY, J. E. and SUTTON, J. D. The effect of change from low-roughage to high-roughage diets on rumen fermentation, blood composition and milk fat secretion in the cow 511
- STORRY, J. E., TUCKLEY, B. and HALL, A. J. The effects of intravenous infusions of triglycerides on the secretion of milk fat in the cow 157
- SUTHERLAND, H. A. M. *see* LANGLANDS, J. P. 603
- SUTTLE, N. F. and FIELD, A. C. Studies on magnesium in ruminant nutrition. 9. Effect of potassium and magnesium intakes on development of hypomagnesaemia in sheep 81
- SUTTON, J. D. The fermentation of soluble carbohydrates in rumen contents of cows given diets containing a large proportion of flaked maize 567
- SUTTON, J. D. *see also* NICHOLSON, J. W. G. 585
- SUTTON, J. D. *see also* STORRY, J. E. 511
- SUZUKI, S. *see* BINES, J. A. 695
- TAGARI, H. Comparison of the efficiency of proteins contained in lucerne hay and soya-bean meal for sheep 455
- TAGARI, H. and ROY, J. H. B. The effect of heat treatment on the nutritive value of milk for the young calf. 8. The effect of the pre-heating treatment of spray-dried skim milk on the pH and the contents of total, protein and non-protein nitrogen of the pyloric outflow 763
- THOMPSON, J. N., HOWELL, J. McC., PITTS, G. A. J. and McLAUGHLIN, C. I. The biological activity of retinoic acid, in the domestic fowl and the effects of vitamin A deficiency on the chick embryo 471
- THOMPSON, J. N. *see also* COWARD, W. A. 619
- THOMPSON, J. N. *see also* MORGAN, B. 899
- TUCKLEY, B. *see* STORRY, J. E. 157, 173
- VIOLA, S. *see* MOKADY, S. 491
- WATERLOW, J. C. *see* ALLEYNE, G. A. O. 783
- WELLER, R. A., PILGRIM, A. F. and GRAY, F. V. Volatile fatty acid production in the rumen of the grazing sheep: its use as an indicator of pasture value 97
- WENHAM, G. *see* WHITE, F. 847
- WEST, C. E. *see* LINZELL, J. L. 319
- WEST, D. W. and OWEN, E. C. The urinary excretion of metabolites of riboflavin by man 889
- WHITE, F., WENHAM, G., SHARMAN, G. A. M., JONES, A. S., RATTRAY, E. A. S. and McDONALD, I. Stomach function in relation to a scour syndrome in the piglet 847
- WHITEHEAD, R. G. *see* GRIMBLE, R. F. 791, 879

- WHITEHEAD, R. G. *see* RUTISHAUSER, I. H. E. 1
WILLIAMS, D. L., SPRAY, G. H., NEWMAN, G. E.
and O'BRIEN, J. R. P. Dietary depletion of
vitamin B₁₂ and the excretion of methylmalonic
acid in the rat 343
- YOUNG, V. R. and HUANG, P. C. In vivo uptake
of [¹⁴C]leucine by skeletal muscle ribosomes
after injury in rats fed two levels of protein 271
- ZIMMERMANN, G. *see* MOKADY, S. 491