Index of Subjects

- Amino acids see Hydroxyproline, Lysine, Selenoamino acids, Sulphur-amino acids, Tryptophan
- Amino acid availability, Tetrahymena pyriformis assay 245
- Amino acid uptake, effect of food restriction, chicken 313
- Ammonia, rumen level, effect on rumen fermentation, sheep 437
- Amylase, activity, effect of in utero malnutrition and subsequent renutrition, rat 233
- Anthropometric study, African athletes 353
- Antler development, effect of nutritional status, relation to body-weight, red deer (*Cervus elaphus* L.) 301
- Ascorbic acid, effect on iron absorption, cerealbased diet with cane sugar, man 261
- Ascorbic acid, leucocyte and plasma levels, effect of illness, man 217
- Baboon (Papio cynocephalus) 507
- Bacterial growth rate, effect of quantity and quality foodstuff, buffalo (Bos bubalis) 335
- Biotin, availability, effect of regulating dietary fat, fatty liver and kidney syndrome, chicken 319
- Body-weight index, suitability of antler composition studies, red deer (*Cervus elaphus* L.) 301
- Buffalo (Bos bubalis) 335
- B-vitamins, secretion in milk during lactation, baboon 507
- Cadmium, daily intake, New Zealand women 55
- Calcium, dietary level, effect on 25-hydroxycholecalciferol-1-hydroxylase, vitamin D-replete chick 47
- Calcium, effect with magnesium and phosphorus on growth and kidney pathology, Mg-deficient rainbow trout (*Salmo gairdneri*) 127
- Calcium absorption, effect of dietary Ca, vitamin D-replete chicks 47
- Calf 167
- Caloreen, dextrin source for parenteral nutrition, metabolic study, man 341
- Cannulation, gastrointestinal forms, effect on digestive measurements, sheep 65
- Carbohydrates see sucrose
- Cattle see calf, steer, cow
- Chicken 47, 313, 319, 471
- Child 31, 239
- Child see also Man
- Copper, daily intake, New Zealand women 55
- Copper, dietary level, effect on performance and tissue Cu and iron status, laying hen 93
- Copper, liver distribution, influence of foetal age, lamb 87
- Copper, requirements during pregnancy and lactation, rat 407
- Copper, tissue status, effect of dietary copper sulphate, laying hen 93

Cow 397

- Decarboxylases, polyamine synthesis, changes in activity during undernutrition, rat 73
- Deer (Cervus elaphus L.) 301
- Dextrin, intravenous infusion, metabolic study, relation to parenteral nutrition, man 341
- Diet, effect on gluconeogenesis, rainbow trout (Salmo gairdneri) 463
- Dietary composition, relation to gluconeogenesis, rainbow trout (Salmo gairdneri) 385
- Digesta flow, reticulorumen and intestines kinetic study, effect of food intake, sheep 425
- Digestibility, isotope studies, nitrogen compounds in rumen bacteria and in small intestine digesta, steer 207
- Digestion, measurement techniques, effects of gastrointestinal cannulation, sheep 65
- Egg production, effect of dietary copper sulphate, laying hen 93
- Energy balance, relation to protein requirement during lactation, cow 397
- Energy expenditure, effect of age, fatness and activity, sheep 445
- Enzymes see Amylase, Decarboxylases, 25-Hydroxycholecalciferol-1-hydroxylase, Lipases
- Epiphyseal cartilage, effect of protein malnutriton on sulphate uptake and histology, rat 513
- Exercise, relation to muscle function during rehabilitation after undernutrition, rat 157
- Fat, dietary levels, relation to biotin availability in fatty liver and kidney syndrome, chicken 319
- Fat, dietary levels, relation to glucose metabolism in fatty liver and kidney syndrome, chicken 329
- Fatty liver and kidney syndrome, effect of dietary fat on glucose metabolism, chicken 329
- Fatty liver and kidney syndrome, effect of dietary fat on lipogenesis and biotin availability, chicken 319
- Foetal development, effect on zinc and copper in liver, lamb 87
- Foodstuff, quantity and quality, effect on rumen bacterial growth, buffalo (*Bos bubalis*) 335
- Food fortification, iron nutrition, effect of cane sugar given with ascorbic acid, man 261
- Food intake, effect on digesta flow in reticulorumen and intestines, kinetic study, sheep 425
- Food restriction, effect on amino acid uptake and body-weight, chickens 313
- Glucose metabolism, effect of dietary fat in fatty liver and kidney syndrome, chicken 329
- Glucose metabolism, effect of dietary urea as a source of non-protein-nitrogen, sheep 455
- Gluconeogenesis, effect of dietary composition and insulin, rainbow trout (Salmo gairdneri) 385

- Gluconeogenesis, regulation by dietary composition and insulin treatment, rainbow trout (Salmo gairdneri) 463
- Growth promotor, Grofas, effect on growth when fed with milk substitutes, preruminant calf 167
- Hen see also Chicken
- Hen 93
- Hormones see Insulin
- 25-Hydroxycholecalciferol-I-hydroxylase, effect of dietary calcium, vitamin D-replete chick 47
- Heat damage, proteins, effect of sucrose 285
- Hydrogen peroxide treatment, effect on nutritional value of fish protein, utilization of oxidized sulphur-amino acids, rat 189
- Hydroxyproline, urinary level, index for nutritional status, effect of parasitic diseases, man 239
- Hypoalbuminaemia, effect of dietary regimen, significance in protein-energy malnutrition, rat 115
- Insulin, effect on gluconeogenesis, rainbow trout (Salmo gairdneri) 463
- Insulin, effect on gluconeogenesis from alanine, rainbow trout (Salmo gairdneri) 385
- Insulin, relation to protein-sparing effect of carbohydrate, growing pig 489
- Iron, absorption, cereal-based meal with cane sugar, effect of ascorbic acid, man 261
- Iron, tissue status, effect of dietary copper sulphate, laying hen 93
- Isotope techniques, in vitro determination of rumen microbial growth 101
- Isotope techniques, measurement of digestibility of nitrogen compounds in rumen bacteria and in small intestine digesta, steer 207
- Lactation, B vitamin content of milk, baboon 507 Lactation, copper and zinc requirements, rat 407
- Lactation, duodenal absorption of zinc and lysine, rat 417
- Lactation, milk yield and composition, effect of postruminal glucose or protein, cow 397

Lamb 87

- Lipases, higher plant and microbial origin, effect on hydrolysis of grass lipids, rumen, sheep 225
- Lipids, hydrolysis in rumen, role of higher plant and microbial lipases, sheep 225
- Liver, parenchymal cell function, effect of protein malnutrition, synthesis rates, rat 255
- Lysine, duodenal absorption during pregnancy and lactation, rat 417
- Malnutrition, effect on liver cell function, protein synthesis rate, rat 255
- Malnutrition, in utero, relation to salivary function in subsequent renutrition, rat 233
- Man 31, 55, 217, 239, 261, 271, 341, 353, 497
- Manganese, daily intake, New Zealand women 55
- Magnesium, deficiency, effect on growth and kidney pathology, rainbow trout (Salmo gairdneri) 127
- Magnesium, effect with calcium and phosphorus on growth and kidney pathology, rainbow trout (Salmo gairdneri) 127

- Metallothionein, zinc- and copper-binding protein, distribution in liver during foetal development, lamb 87
- Milk substitutes, soya-bean flour or fish-protein concentrate, nutritive value, preruminant calf 167
- Minerals see Cadmium, Calcium, Copper, Iron, Manganese, Magnesium, Selenium, Zinc
- Muscle, effect of exercise during rehabilitation after undernutrition, rat 157
- NAD synthesis, relation between dietary protein and nicotinic acid status, rat 39
- Nicotinic acid, dietary level, effect on enzymes of tryptophan-NAD pathway, protein-deficiency, rat 39
- Nitrogen retention, relationship with dietary starch and protein levels, growing pig 479
- Nitrogen retention, response to insulin and glucose infusion, growing pig 489
- Nutrient intake, first trimester of pregnancy, socioeconomic study, man 497
- Nutritional muscular dystrophy, morphological changes associated with dietary vitamin E status, rabbit 361
- Nutritional status, effect on polyamine synthesis, rat 73
- Nutritional status, hydroxyproline index, relation to parasitic diseases, child 239
- Nutritional status, index, serum proteinase inhibitors and serum proteins, Thai children 31
- Nutritional stress, effect of exercise during rehabilitation, muscle function, rat 159
- Nutritional value, effect of hydrogen peroxide treatment of fish protein, oxidized sulphur-amino acid utilization, rat 189
- Nutritive value, heat-damaged proteins, effect of sucrose 285
- Nutritive value, milk substitute, soya-bean flour or fish-protein concentrate, preruminant calf 167
- Obesity, assessment, skinfold method compared with 'overweight' and weight-height relationships, man, 271
- Parenteral nutrition, metabolic study using intravenous dextrin infusions, man 341
- Phosphorus, effect with magnesium and calcium on growth and kidney pathology, Mg-deficient rainbow trout (*Salmo gairdneri*) 127
- Pig 479, 489
- Polyamine synthesis, effect of undernutrition, rat 73
- Pregnancy, nutrient intake during first trimester, socio-economic study, man 497
- Protein see Amino acids
- Protein, dietary source, effect on survival acute fowl typhoid, chick 471
- Protein-energy malnutrition, development of hypoalbuminaemia, effect of dietary regimen, rats 115
- Protein-energy malnutrition, serum proteinase inhibitors and serum proteins, indices of nutritional status, Thai children 31
- Protein malnutrition, effect on sulphate uptake and histology of epiphyseal cartilage, rat 513

https://doi.org/10.1079/BJN19770119 Published online by Cambridge University Press

Protein requirement, lactating cow 397

- Protein-sparing effect, relationship between dietary starch and nitrogen retention, growing pig 479
- Protein-sparing effect, role of insulin, growing pig 489
- Protein synthesis, liver parenchymal cells, effect of protein malnutrition, rat 255
- Protein synthesis, measurement by constant infusion technique, rabbit 1
- Rabbit 1, 361
- Rainbow trout (Salmo gairdneri) 127, 385, 463
- Rat 19, 39, 73, 115, 157, 189, 233, 255, 407, 417, 513
- Rumen bacteria, digestibility of nitrogen compounds, isotope study, steer 207
- Rumen fermentation, relation to ammonia concentration, whole barley and urea diet, sheep 437
- Rumen microbial growth, in vitro measurement by ${}^{32}PO_4$ incorporation, sheep IOI
- Rumen simulation, development of long-term technique 371
- Salivary function, effect of in utero malnutrition and renutrition, rat 233
- Salmonella gallinarum infection, influence of diet on survival rate, chicken 471
- Selenium, intestinal absorption of ²⁶Se-labelled fish homogenate, rat 19
- Seleno-amino acids, long-term metabolism, oral dose and labelled fish homogenate, rat 19
- Sheep 55, 87, 101, 225, 425, 437, 445, 455
- Sheep see also Lamb
- Starch, dietary level, effect on nitrogen retention, growing pig 479
- Steer 207
- Sucrose, effect on susceptibility of proteins to heat damage 285
- Sulphate uptake, epiphyseal cartilage, effect of protein malnutrition, rat 513
- Sulphur-amino acids, oxidation and utilization, effect of supplementing hydrogen peroxidetreated fish protein, rat 189

- Technique, assessment of obesity, skinfold method compared with 'overweight' and weight-height relationships, man 271
- Technique, constant infusion, measurement of rate of protein synthesis, rabbit I
- Technique, gastrointestinal cannulation, effect on digestive measurements, sheep 65
- Technique, long-term rumen simulation 371
- Technique, microbiological assay of available amino acids, improved Tetrahymena pyriformis method 245
- Technique ³²PO₄ incorporation, in vitro measurement of rumen microbial growth, sheep 101
- Tetrahymena pyriformis, improved assay for amino acid availability 245
- Trace elements see Cadmium, Copper, Manganese, Zinc
- Trace element intake, New Zealand women 55
- Tryptophan, relation between dietary protein and nicotinic acid status, NAD synthesis, rat 39
- Tryptophan-NAD pathway, effect of dietary protein level, rat 39
- Urea, dietary level, effect on glucose metabolism, sheep 455
- Vitamins see Ascorbic acid, Biotin, Nicotinic acid, B-vitamins, Vitamin D, Vitamin E
- Vitamin D, metabolism, effect of dietary calcium on 25-hydroxycholecalciferol-1-hydroxylase, vitamin D-replete chick 47
- Vitamin E, effect of dietary deficiency on skeletal muscle morphology, rabbit 361

Zinc, daily intake, New Zealand women 55

- Zinc, duodenal absorption during pregnancy and lactation, rat 417
- Zinc, liver distribution, influence of foetal age, lamb 87
- Zinc, requirements during pregnancy and lactation, rat 407