

Index of Subjects

Numerals followed by the letter A refer to Abstracts of Communications read at Meetings for Original Communications of The Nutrition Society

Acetate metabolism

The influence of acetate and nutrient balance on ouabain-sensitive respiration in ovine liver
52, 56A, 1993

Enumeration of bacteria forming acetate from H₂ and CO₂ and other H₂-utilizing micro-organisms from the digestive tract of animals and man
52, 117A, 1993

Acid-base status

Blood acid-base and urinary excretion during chronic ingestion of a drink with acute alkalinizing properties
52, 265A, 1993

The effect of consuming the sodium salts of two weak organic acids for 5 consecutive days on acid-base status in man
52, 266A, 1993

Activity level

Effect of chronic energy deprivation on 24 h activity of lean and obese mice
52, 33A, 1993

The effect of season and leisure activity on the energy expenditure of adult males
52, 94A, 1993

Adaptation to diet

Adaptation to a diet by cats and dogs: implications for protocol design
52, 296A, 1993

Adipose tissue

Adipose tissue profiles in inflammatory bowel disease
52, 5A, 1993

Perirenal adipose tissue development in artificially- and ewe-reared lambs over the first month of life
52, 104A, 1993

Adolescence

Lunchtime dietary choice of young teenagers in Tayside
52, 40A, 1993

Adrenaline

The metabolic and cardiovascular responses to infused adrenaline in lean and obese subjects
52, 304A, 1993

African foods

An investigation of the effects of two indigenous African foods, *Detarium microcarpum* and *Cissus rotundifolia* on rat plasma cholesterol levels
52, 372A, 1993

The effect of two Nigerian feeds containing non-starch polysaccharides on postprandial blood glucose and insulin levels in healthy subjects
52, 377A, 1993

Ageing

Digestibility in Labrador Retrievers during growth
52, 294A, 1993

Exposure to choice feeding at different ages and the subsequent choice of broiler chickens
52, 354A, 1993

Aid programmes

Aid programmes for malnutrition and the role of the nutritionist
52, 175, 1993

Albumin

Increased albumin synthesis in healthy volunteers with feeding
52, 91A, 1993

Short-term parenteral feeding does not mitigate the decrease in albumin synthesis rates induced by interleukin-1 β or turpentine injection in the rat
52, 231A, 1993

Non-linear incorporation of tracer into non-albumin plasma protein as a result of a flooding dose of leucine
52, 250A, 1993

Alcoholics

Effect of oral administration of an oil enriched in γ -linolenic acid in platelet aggregation and lipid composition in alcoholic patients during withdrawal
52, 196A, 1993

Allergy

Nutrient intakes in a group of self-reported milk allergy subjects.
52, 110A, 1993

Does a maternal milk-free diet prevent allergy in the 'at-risk' infant?
52, 217A, 1993

Aluminium

The bioavailability and metabolism of aluminium compounds in man
52, 231, 1993

The chemistry of aluminium in the gastrointestinal lumen and its uptake and absorption
52, 241, 1993

Recent research on the causes of Alzheimer's disease
52, 255, 1993

Alzheimer's disease

The bioavailability and metabolism of aluminium compounds in man
52, 231, 1993

Recent research on the causes of Alzheimer's disease
52, 255, 1993

Amino acids

The metabolism of amino acids in mice infected with *Schistosoma mansoni*
52, 7A, 1993

Nutritional value of lentil and effect of cooking on free amino acid tissue concentrations of growing rats
52, 132A, 1993

Amino acid losses in ileostomy fluid on a protein-free diet
52, 147A, 1993

Contribution of intestinal microflora to lysine requirements in non-ruminants
52, 153A, 1993

Adult and old rats retain sensitivity for stimulation of muscle protein synthesis by amino acid
52, 170A, 1993

Effect of dietary methionine concentration on plasma free amino acid levels in genetically lean and fat chickens
52, 173A, 1993

Net absorption of low molecular weight peptides by the mesenteric- and portal-drained viscera of steers
52, 190A, 1993

Nutritive value of goat's and cow's milk crude protein and ileal digestibility of their amino acids by the growing pig
52, 204A, 1993

- New analytical techniques and considerations for measuring ^{13}C -labelled amino acids at sub-micro molar levels 52, 303A, 1993
- Sulphur amino acids ameliorate lung inflammation in response to tumour necrosis factor α in rats fed low-protein diets 52, 339A, 1993
- β -Amyloid precursor protein**
- Recent research on the causes of Alzheimer's disease 52, 255, 1993
- Anorexia**
- Causes and consequences of dieting and anorexia 52, 211, 1993
- Food behaviour evolution in anorexia nervosa 52, 34A, 1993
- Exercise-induced anorexia in lean men 52, 382A, 1993
- Anthelmintic treatment**
- A follow-up study to investigate an increase in *Giardia lamblia* infection among Bangladeshi children receiving regular anthelmintic treatment 52, 8A, 1993
- Anthropometry**
- The intensity of infection with *Ascaris lumbricoides* and the anthropometric status of children in Bangladesh 52, 9A, 1993
- Supplementing meals with leaf concentrate in Sri Lankan nursery schools: impact on anthropometric status 52, 99A, 1993
- Anthropometric measurements in elderly orthopaedic patients: 6-month follow-up of high- and low-nutritional risk groups 52, 108A, 1993
- The diet, physical activity patterns and anthropometry of a group of free-living elderly people 52, 344A, 1993
- Muscle thickness as an index of fat-free mass 52, 345A, 1993
- Antibody**
- Measurement of postprandial apolipoprotein B-48 using a novel specific antibody 52, 76A, 1993
- Antigen specificity and cross-reactivity of fifteen monoclonal antibodies against porcine pancreatic α -amylase II, and its AB and C domains 52, 143A, 1993
- Measurement of apolipoprotein B-48 with a novel specific antibody reveals two postprandial peaks of intestinal origin 52, 289A, 1993
- Antigen**
- Antigenic soya-bean protein digestion in the dairy calf at weaning 52, 136A, 1993
- Antigen specificity and cross-reactivity of fifteen monoclonal antibodies against porcine pancreatic α -amylase II, and its AB and C domains 52, 143A, 1993
- Anti-nutritional factors**
- Use of chemical treatments to reduce antinutritional effects of tannins of salseed (*Shorea robusta*) meal in diets of broiler chickens 52, 138A, 1993
- Antioxidants**
- Effects of dietary lactose and sucrose on antioxidant status in copper-deficient diabetic rats 52, 26A, 1993
- Antioxidant protection of the anoxic-reoxygenated heart 52, 62A, 1993
- The validation of a food frequency and amount questionnaire for assessing dietary antioxidant intakes amongst older adults 52, 63A, 1993
- Serum antioxidants and malondialdehyde in homocysteinaemics with coronary heart disease, non-homocysteinaemics with coronary heart disease, and normal control subjects 52, 73A, 1993
- Cigarette smoking and intake of antioxidant vitamins: a dose-type response effect 52, 113A, 1993
- Is the antioxidant activity of premature baby plasma modulated by plasma ascorbic acid concentrations? 52, 313A, 1993
- Antioxidant status during liver transplantation 52, 316A, 1993
- Relationship between antioxidant vitamins and tumour necrosis factor (TNF) in smokers and non-smokers 52, 338A, 1993
- Apolipoprotein**
- Measurement of postprandial apolipoprotein B-48 using a novel specific antibody 52, 76A, 1993
- Measurement of apolipoprotein B-48 with a novel specific antibody reveals two postprandial peaks of intestinal origin 52, 289A, 1993
- Apparent precaecal digestibility**
- Effect of Virginiamycin on the precaecal apparent digestibility of the major nutrients comparing a diet with high and low precaecal digestibility in pigs 52, 212A, 1993
- Appetite**
- Energy partitioning, tissue growth and appetite control 52, 69, 1993
- Neuropeptide Y is increased in appetite-regulating hypothalamic areas of lactating rats 52, 218A, 1993
- The effects of fibre in the breakfast upon short-term appetite control: a comparison of soluble and insoluble fibre 52, 381A, 1993
- Arachidonic acid**
- Esterification of oleic and arachidonic acids in mouse jejunum 52, 161A, 1993
- L-Arginine**
- The immunological and metabolic effects of L-arginine in human cancer 52, 387, 1993
- Ascariasis**
- The intensity of infection with *Ascaris lumbricoides* and the anthropometric status of children in Bangladesh 52, 9A, 1993
- Ascorbic acid**
- Effect of changes in environmental temperature on self-selection of ascorbic acid in coloured feeds by broiler chicks 52, 29A, 1993
- Relationships between plasma, gastric tissue and gastric juice ascorbic acid levels in subjects with and without gastritis 52, 61A, 1993
- Plasma ascorbic acid and dehydroascorbic acid levels in very low-birth weight infants 52, 77A, 1993

- Comparison of energy, ascorbic acid and fibre estimates by a food-frequency questionnaire and a 10 d weighed record in smokers
52, 112A, 1993
- Is the antioxidant activity of premature baby plasma modulated by plasma ascorbic acid concentrations?
52, 313A, 1993
- Bacillus stearothersophilus**
The potential value of *Bacillus stearothersophilus* spores as a gut transit time marker
52, 293A, 1993
- Baked beans**
Effect of baked beans on steroid metabolism of hypercholesterolaemic pigs
52, 164A, 1993
- Behaviour**
'Malnutrition, Learning and Behavior': 25 years on from the MIT Symposium
52, 189, 1993
Some aspects of the long-term effects of malnutrition on the behaviour of children in the Third World
52, 201, 1993
The behavioural effects of undernutrition in confined farm animals
52, 219, 1993
Behaviour of stunted children and the relationship to development
52, 36A, 1993
- Beikost**
Maintaining the patterns of human milk-induced gut microflora after supplementary feeding of beikost
52, 121A, 1993
- Bifidobacteria**
Establishment of *Bifidobacterium bifidum* in the intestine of human neonates: relationship with the bifidus-factors found in the stools
52, 120A, 1993
Growth of bifidobacteria in continuous culture
52, 125A, 1993
- Bioelectrical impedance analysis**
Estimation of the mass and distribution of body water in surgical patients by multiple-frequency bioelectrical impedance analysis
52, 248A, 1993
The changes in body weight and in body composition, estimated using bioelectrical impedance analysis over 72 h of fasting; comparison with estimates based on energy expenditure measured by indirect calorimetry
52, 251A, 1993
Different predictions of body fat from the same whole-body bio-electrical impedance measurement
52, 347A, 1993
- Biotin**
The effect of biotin deficiency on the fatty acid composition of porcine tissues
52, 86A, 1993
- Birth weight**
Risk factors for intra-uterine growth retardation in Campinas, Brazil
52, 65A, 1993
Plasma ascorbic acid and dehydroascorbic acid levels in very low-birth weight infants
52, 77A, 1993
- Blood lipids**
The effect of dietary lipid manipulation on serum lipid concentrations and fatty acid composition
52, 268A, 1993
- Blood pressure**
Blood pressure fluctuations and cerebral outcome in very low birth weight (VLBW) babies
52, 226A, 1993
- Body composition**
The changes in body weight and in body composition, estimated using bioelectrical impedance analysis over 72 h of fasting; comparison with estimates based on energy expenditure measured by indirect calorimetry
52, 251A, 1993
Effects of overfeeding on protein-energy metabolism and body composition of high genetic potential boars
52, 297A, 1993
Prediction of body density from skinfold thickness in elderly subjects: are the existing equations valid?
52, 346A, 1993
Different predictions of body fat from the same whole-body bio-electrical impedance measurement
52, 347A, 1993
- Body water**
Estimation of the mass and distribution of body water in surgical patients by multiple-frequency bioelectrical impedance analysis
52, 248A, 1993
- Body weight**
Weight-for-height influences outcome in childhood leukaemia
52, 96A, 1993
Human growth hormone improves body-weight but not disease activity in a chronic model of colitis
52, 255A, 1993
Characteristics of people recording a low energy intake for body weight in a large national survey
52, 343A, 1993
The effect of the CCK receptor antagonist loxiglumide, on feeding behaviour in normal-weight volunteers
52, 350A, 1993
- Bone**
Micronutrients and longitudinal growth
52, 49, 1993
Dietary factors and vertebral bone density in perimenopausal women from a general medical practice in Northern Ireland
52, 44A, 1993
Effect of pea intake on bone protein synthesis and immunoreactive IGF
52, 139A, 1993
Postnatal changes in bone mineral content in preterm infants
52, 223A, 1993
Collagen synthesis in human bone measured using stable isotope-labelled alanine and proline
52, 258A, 1993
Current calcium intake and bone mineral content in young men and women
52, 323A, 1993
- Breakfast cereal**
Nutrient intakes and breakfast cereal consumption habits of British schoolchildren
52, 322A, 1993
The effects of fibre in the breakfast upon short-term appetite control: a comparison of soluble and insoluble fibre
52, 381A, 1993
- Breast-feeding**
Breast-feeding and other prognostic factors among malnourished children admitted for

- diarrhoea in a Madagascar hospital
52, 202A, 1993
- ¹³C Breath studies**
Methodological considerations of ¹³C breath studies 52, 365A, 1993
The bio-availability of a ¹³C labelled dietary fatty acid in healthy adults 52, 366A, 1993
- Burn injury**
Oxygen consumption during the acute phase of burn injury in infants and children 52, 4A, 1993
- Butyrate**
Phenotype modulation in butyrate-treated rat colon carcinoma cell lines 52, 157A, 1993
Propionate presents effects similar to those of butyrate on HT29 cell growth and differentiation 52, 162A, 1993
Factors influencing caecal butyrate in rats fed on raw potato starch 52, 376A, 1993
- Calcium**
Calcium homeostasis during contractile activity of vitamin E-deficient skeletal muscle 52, 83A, 1993
Effect of lipid supply in the diet of cows on calcium and magnesium pools in the rumen 52, 151A, 1993
Stimulation of calcium absorption in growing pigs treated for 2 months with porcine growth hormone (GH) 52, 191A, 1993
Calcium absorption from cow's milk and soya milks in young rats 52, 273A, 1993
Current calcium intake and bone mineral content in young men and women 52, 323A, 1993
Changes in the diet of Mandinka women in The Gambia between 1978-79 and 1990-91: consequences for calcium intakes 52, 349A, 1993
- Calorimetry**
Evidence of energy-sparing adaptations in Gambian women during pregnancy, assessed by whole-body calorimetry 52, 102A, 1993
- Cancer**
Undernutrition and chronic disease: cancer 52, 39, 1993
The immunological and metabolic effects of L-arginine in human cancer 52, 387, 1993
Alteration by lymphokines of the epithelial function and barrier capacity of the human colon carcinoma cell line HT29-C119A 52, 134A, 1993
Phenotype modulation in butyrate-treated rat colon carcinoma cell lines 52, 157A, 1993
Propionate presents effects similar to those of butyrate on HT29 cell growth and differentiation 52, 162A, 1993
Colon simulation technique as an *in vitro* model to study the effects of diet on microbial production of enzymes potentially involved in colon cancer 52, 183A, 1993
Infusion of the lithium salt of γ -linolenic acid into pancreatic cancer patients increases thymidine uptake and induces tumour necrosis factor release by peripheral blood mononuclear cells 52, 244A, 1993
- Cancer cachexia**
Increased TNF production does not correlate with cachexia in chronic inflammatory bowel disease 52, 71A, 1993
- Carbohydrate intake**
The acute effects of lunches of differing fat and carbohydrate content on mood and cognitive performance 52, 32A, 1993
- Carbon dioxide**
The recovery of labelled carbon dioxide in pregnant subjects 52, 247A, 1993
- Cardiovascular responses**
The effect of dietary copper deficiency on endothelium-dependent relaxation of rat aorta *in vitro* 52, 27A, 1993
The effect of meal size on the cardiovascular responses to food ingestion 52, 37A, 1993
The relationship between changes in metabolic rate, haemodynamic variables and plasma catecholamine levels during acute starvation 52, 53A, 1993
Antioxidant protection of the anoxic-reoxygenated heart 52, 62A, 1993
Measurement of free-living energy expenditure by continuous heart rate monitoring and doubly-labelled water 52, 93A, 1993
Central and peripheral cardiovascular responses to meals of different composition measured over a 3 h period 52, 290A, 1993
The metabolic and cardiovascular responses to infused adrenaline in lean and obese subjects 52, 304A, 1993
- Caribbean**
Nutrition and health in the developing world: the Caribbean experience 52, 183, 1993
- Cat foods**
The digestibility of macronutrients in the growing domestic cat 52, 275A, 1993
- CCK-octapeptide**
Cholecystokinin octapeptide suppresses feeding and conditions colour aversion in chickens 52, 30A, 1993
- Cerebral outcome**
Blood pressure fluctuations and cerebral outcome in very low birth weight (VLBW) babies 52, 226A, 1993
- Childhood**
Chronic undernutrition and the young 52, 11, 1993
Micronutrient undernutrition in British school-children 52, 155, 1993
Some aspects of the long-term effects of malnutrition on the behaviour of children in the Third World 52, 201, 1993
Oxygen consumption during the acute phase of burn injury in infants and children 52, 4A, 1993
A follow-up study to investigate an increase in *Giardia lamblia* infection among Bangladeshi children receiving regular anthelmintic treatment 52, 8A, 1993

- The intensity of infection with *Ascaris lumbricoides* and the anthropometric status of children in Bangladesh 52, 9A, 1993
- Phospholipid-2-9,12,15-linolenic acid in Gambian children with *Plasmodium falciparum* malaria 52, 10A, 1993
- Eating habits, nutrient intake and growth in pre-school children 52, 11A, 1993
- A preliminary report on dietary intake and anthropometry of vegetarian children compared with omnivores 52, 13A, 1993
- Zinc supplementation in young Gambian children 52, 25A, 1993
- Behaviour of stunted children and the relationship to development 52, 36A, 1993
- Effects of iodine and retinol supplementation on thyroid function in pre-school children in the Morogoro Region of Tanzania 52, 60A, 1993
- Influence of illness on serum retinol of children in northern Ghana 52, 64A, 1993
- Weight-for-height influences outcome in childhood leukaemia 52, 96A, 1993
- Reported energy intakes and basal metabolic rates of normal healthy children aged 5-15 years 52, 97A, 1993
- Energy intakes and resting energy expenditure in children of short stature and those receiving growth hormone 52, 98A, 1993
- Supplementing meals with leaf concentrate in Sri Lankan nursery schools: impact on anthropometric status 52, 99A, 1993
- Factors associated with undernutrition in pre-school Tanzanian children 52, 109A, 1993
- Nutrient intakes and breakfast cereal consumption habits of British schoolchildren 52, 322A, 1993
- An assessment of the iron status of a sample of normal, healthy, 1-year-old children 52, 333A, 1993
- The nutrient contribution of weekday lunch in 7 to 8-year-old children 52, 385A, 1993
- Cholecystokinin**
- Adaptation to high-fat diets: Effect on plasma cholecystokinin (CCK) and food intake 52, 127A, 1993
- Pharmacological and biochemical evidence for differential expression of A- and B-subtype CCK-gastrin receptors in the calf pancreas during development 52, 169A, 1993
- The effect of the CCK receptor antagonist loxiglumide, on feeding behaviour in normal-weight volunteers 52, 350A, 1993
- Cholesterol metabolism**
- Cholesterol oxidation in porcine muscle as influenced by pig diet 52, 54A, 1993
- An investigation of the effects of two indigenous African foods, *Detarium microcarpum* and *Cissus rotundifolia* on rat plasma cholesterol levels 52, 372A, 1993
- Cholesterol metabolism and crypt cell proliferation rates in rats in response to rye based diets 52, 373A, 1993
- Effect of cholesterol feeding on DNA damage in hamster heart cells 52, 374A, 1993
- Chronic disease**
- Undernutrition and chronic disease: cancer 52, 39, 1993
- Resting energy expenditure with the ventilated hood and mouthpiece systems in patients with chronic lung disease 52, 6A, 1993
- Increased TNF production does not correlate with cachexia in chronic inflammatory bowel disease 52, 71A, 1993
- Superior absorption of medium-chain triacylglycerols compared with conventional dietary long-chain fats in children with chronic liver disease 52, 253A, 1993
- Chronic undernutrition**
- Chronic malnutrition: protein metabolism 52, 1, 1993
- Chronic undernutrition and the young 52, 11, 1993
- Chronic undernutrition in pregnancy and lactation 52, 19, 1993
- Chronic undernutrition and the aged 52, 29, 1993
- Undernutrition and chronic disease: cancer 52, 39, 1993
- Clenbuterol**
- Effects of clenbuterol on tissue mass after scald injury in the rat 52, 75A, 1993
- Cognitive performance**
- Poorer cognitive performance associated with dieting and high levels of dietary restraint 52, 31A, 1993
- The acute effects of lunches of differing fat and carbohydrate content on mood and cognitive performance 52, 32A, 1993
- Raised metabolic demands for energy may contribute to weight loss in institutionalized psychogeriatric patients 52, 45A, 1993
- The effects of dietary and intraduodenal lipid on arousal, and performance in two psychological tasks 52, 352A, 1993
- Cold exposure**
- Maternal manipulation of iodothyronine 5'-deiodinase activity in the ovine foetus 52, 300A, 1993
- Colitis**
- Human growth hormone improves body-weight but not disease activity in a chronic model of colitis 52, 255A, 1993
- Changes in short-chain fatty acids in experimental colitis 52, 256A, 1993
- Collagen**
- Collagen synthesis in human bone measured using stable isotope-labelled alanine and proline 52, 258A, 1993
- Colon simulation technique**
- Colon simulation technique as an *in vitro* model to study the effects of diet on microbial production of enzymes potentially involved in colon cancer 52, 183A, 1993
- Colonic bacteria**
- The effect of non-starch polysaccharide on

- bacterial contribution to faecal mass
52, 41A, 1993
- Competition for hydrogen between methanogenesis and hydrogenotrophic acetogenesis in human colonic flora studied by ^{13}C NMR
52, 118A, 1993
- Adaptation to two doses of lactulose by human colonic flora in continuous culture
52, 156A, 1993
- Colonic motility**
- Short-chain fatty acids (SCFA) and colonic motility: influence on segmental motor patterns
52, 152A, 1993
- Short-chain fatty acids (SCFA) and colonic motility: influence on propulsive motor patterns
52, 198A, 1993
- Colonocytes**
- Metabolic characteristics of isolated colonocytes: modulation by dietary fibre or by the colonic microflora
52, 133A, 1993
- Colostrum**
- Growth factors in colostrum: receptor localization and stimulation of phosphorylation in microvillar membranes of neonatal pigs
52, 213A, 1993
- Colour aversion**
- Cholecystokinin octapeptide suppresses feeding and conditions colour aversion in chickens
52, 30A, 1993
- Confocal microscopy**
- Measuring intestinal crypt cell proliferation by confocal microscopy
52, 184A, 1993
- Cooking**
- Nutritional value of lentil and effect of cooking on free amino acid tissue concentrations of growing rats
52, 132A, 1993
- Copper**
- Effects of dietary lactose and sucrose on anti-oxidant status in copper-deficient diabetic rats
52, 26A, 1993
- The effect of dietary copper deficiency on endothelium-dependent relaxation of rat aorta *in vitro*
52, 27A, 1993
- Immunological function in copper deficiency
52, 28A, 1993
- Corn oil**
- Basal and hormone-stimulated rates of lipogenesis in liver and adipose tissue of rats fed on corn oil and fish oil diets
52, 51A, 1993
- Coronary heart disease**
- Serum antioxidants and malondialdehyde in homocysteinaemics with coronary heart disease, non-homocysteinaemics with coronary heart disease, and normal control subjects
52, 73A, 1993
- Cortisol**
- Concentrations of serum cortisol, insulin and blood glucose in dairy cows fed on diets with different amounts of concentrate and roughage
52, 363A, 1993
- Creatine**
- The influence of dietary creatine supplementation on work output and metabolism during repeated bouts of maximal isokinetic cycling in man
52, 362A, 1993
- Critical illness**
- Protein synthesis rates in individual tissues of critically-ill patients
52, 230A, 1993
- Plasma vitamin C concentrations in critically ill patients
52, 314A, 1993
- Crypt cells**
- Measuring intestinal crypt cell proliferation by confocal microscopy
52, 184A, 1993
- Cholesterol metabolism and crypt cell proliferation rates in rats in response to rye based diets
52, 373A, 1993
- Cystic fibrosis**
- Faecal losses of retinol and α -tocopherol in subjects with cystic fibrosis and healthy controls
52, 2A, 1993
- Cytokines**
- Dietary lipids modulate the physicochemical characteristics of rat hepatocyte plasma membranes
52, 318A, 1993
- Developing world**
- Nutrition and health in the developing world: the Caribbean experience
52, 183, 1993
- The importance of dietary fat in maintaining energy balance in a rural subsistence farming community
52, 48A, 1993
- Factors associated with undernutrition in pre-school Tanzanian children
52, 109A, 1993
- Dexamethasone**
- Chronic lung disease, dexamethasone and linear growth in neonates
52, 225A, 1993
- Diabetes**
- Effects of dietary lactose and sucrose on anti-oxidant status in copper-deficient diabetic rats
52, 26A, 1993
- Hepatic drug-metabolizing enzymes in spontaneously obese hyperglycaemic (*ob/ob*) mice
52, 43A, 1993
- Hypocaloric treatment of obese type 2 diabetics
52, 369A, 1993
- Diamine oxidase**
- Effects of polymer feeds on ileal integrity as assessed by diamine oxidase release
52, 74A, 1993
- Diarrhoea**
- The role of zinc and vitamin A deficiency in diarrhoeal syndromes in developing countries
52, 131, 1993
- High bacterial counts in the proximal small intestine: an unexpected finding in normal cats
52, 126A, 1993
- $^{[15]\text{N}}$ and $^{[14]\text{C}}$ glutamine fluxes across rabbit ileum in experimental bacterial diarrhoea
52, 193A, 1993
- Breast-feeding and other prognostic factors among malnourished children admitted for diarrhoea in a Madagascar hospital
52, 202A, 1993

- Variations in the formulation of commercially-available oral rehydration solutions intended for use in the treatment of diarrhoea
52, 379A, 1993
- Diet selection**
- Lunchtime dietary choice of young teenagers in Tayside
52, 40A, 1993
- The effect of food deprivation, time of exposure and type of feed on diet selection of broiler chickens
52, 380A, 1993
- Dietary advice**
- Food sources of fat and sugar in the Northern Irish diet
52, 16A, 1993
- How effective is healthy eating advice for women from different socio-economic groups?
52, 20A, 1993
- Dietary compliance**
- Dietary compliance and changes in the nutritional status of chronic renal failure patients on conventional low-protein diet
52, 239A, 1993
- Dietary fat: carbohydrate ratio**
- The effect of covertly manipulating the dietary fat: carbohydrate ratio of isoenergetically dense diets on *ad lib.* food intake in "free-living" humans
52, 351A, 1993
- Dietary fats**
- The influence of interleukin-6 (IL-6) and dietary lipids on total protein synthesis rates in cultured rat hepatocytes
52, 337A, 1993
- The effect of covert manipulation of dietary fat and energy density on *ad libitum* food intake in "free-living" humans
52, 348A, 1993
- The effects of dietary and intraduodenal lipid on arousal, and performance in two psychological tasks
52, 352A, 1993
- The effect of dietary lipid manipulation on lymphocyte proliferation
52, 375A, 1993
- Dietary fibre**
- The effect of dietary fibres on iron and zinc absorption in sucking rats
52, 23A, 1993
- Comparison of energy, ascorbic acid and fibre estimates by a food-frequency questionnaire and a 10 d weighed record in smokers
52, 112A, 1993
- Involvement of sugar composition of dietary fibre in formation of short-chain fatty acids during *in vitro* fermentation with human microflora
52, 116A, 1993
- Chemical characteristics of insoluble dietary fibre from sea-lettuce (*Ulva lactuca*)
52, 122A, 1993
- Starch hydrolysis in the rabbit intestine and effect on fibre degradation
52, 123A, 1993
- Metabolic characteristics of isolated colonocytes: modulation by dietary fibre or by the colonic microflora
52, 133A, 1993
- The use of ruminal indigestible neutral detergent fibre to study intradiurnal variation of digestion and outflow of rumen dry matter (RDM) in sheep fed *ad lib.* on lucerne hay
52, 149A, 1993
- Ruminal fermentation of neutral detergent fibre and nitrogen in legume, grass and mixtures by growing steers
52, 158A, 1993
- In vitro*-fermentation of purified fibre from brown algae by human faecal bacteria
52, 159A, 1993
- Simulation of the effects of diet on the contribution of rumen protozoa to degradation of fibre in the rumen
52, 175A, 1993
- The effect of dietary fibre on oro-caecal transit time in dogs
52, 201A, 1993
- Dietary fibre and cell proliferation in the stomach
52, 208A, 1993
- Small-intestinal absorption of minerals during enteral feeding supplemented with a soya-bean polysaccharide and soya-bean oligosaccharide fibre
52, 241A, 1993
- The effects of fibre in the breakfast upon short-term appetite control: a comparison of soluble and insoluble fibre
52, 381A, 1993
- Dietary intake**
- A preliminary report on dietary intake and anthropometry of vegetarian children compared with omnivores
52, 13A, 1993
- Traditional dietary intakes and serum lipids in Singapore ethnic groups
52, 14A, 1993
- Effect of diet and stage of lactation on milk composition in rats.
52, 100A, 1993
- Faecal steroid excretion and relation to dietary intake in Indian and White vegetarians compared with white omnivores
52, 370A, 1993
- Dietary restriction**
- Poorer cognitive performance associated with dieting and high levels of dietary restraint
52, 31A, 1993
- Dietary survey**
- Fruit and vegetable consumption in north Glasgow: some results from the MONICA study of 1986 and 1989
52, 12A, 1993
- Dietary patterns in functional and organic dyspepsia
52, 72A, 1993
- Comparison of energy, ascorbic acid and fibre estimates by a food-frequency questionnaire and a 10 d weighed record in smokers
52, 112A, 1993
- Development and evaluation of food photographs for use in retrospective dietary surveys
52, 329A, 1993
- Can recorded energy intake be used to estimate energy expenditure?
52, 342A, 1993
- Characteristics of people recording a low energy intake for body weight in a large national survey
52, 343A, 1993
- Changes in the diet of Mandinka women in The Gambia between 1978-79 and 1990-91: consequences for calcium intakes
52, 349A, 1993
- Hypocaloric treatment of obese type 2 diabetics
52, 369A, 1993
- Dieting**
- Causes and consequences of dieting and anorexia
52, 211, 1993

Digestibility

- Digestibility in Labrador Retrievers during growth 52, 294A, 1993
- Adaptation to a diet by cats and dogs: implications for protocol design 52, 296A, 1993

DNA

- Effect of cholesterol feeding on DNA damage in hamster heart cells 52, 374A, 1993

Dopamine

- Metabolic effects of 3 h infusion of dopamine at 2 µg and 5 µg/min per kg 52, 249A, 1993

Doppler shift radar

- The effect in rats of intestinal intraluminal lipid on postprandial activity determined by Doppler shift radar 52, 359A, 1993

Doubly-labelled water

- Measurement of free-living energy expenditure by continuous heart rate monitoring and doubly-labelled water 52, 93A, 1993

Drug addiction

- Undernutrition in drug addicts. Immunological study 52, 261A, 1993

Dry matter

- The use of ruminal indigestible neutral detergent fibre to study intradiurnal variation of digestion and outflow of rumen dry matter (RDM) in sheep fed *ad lib.* on lucerne hay 52, 149A, 1993

Dyspepsia

- Dietary patterns in functional and organic dyspepsia 52, 72A, 1993

Eating behaviour

- Eating habits, nutrient intake and growth in pre-school children 52, 11A, 1993

Eating disorders

- Causes and consequences of dieting and anorexia 52, 211, 1993

Elderly

- Chronic undernutrition and the aged 52, 29, 1993
- Raised metabolic demands for energy may contribute to weight loss in institutionalized psychogeriatric patients 52, 45A, 1993
- The validation of a food frequency and amount questionnaire for assessing dietary antioxidant intakes amongst older adults 52, 63A, 1993
- Vitamin C deficiency is associated with pressure sores in elderly patients with femoral neck fractures 52, 79A, 1993
- Anthropometric measurements in elderly orthopaedic patients: 6-month follow-up of high- and low-nutritional risk groups 52, 108A, 1993
- Energy intake and energy expenditure in acute admissions to a geriatric unit 52, 307A, 1993
- The diet, physical activity patterns and anthropometry of a group of free-living elderly people 52, 344A, 1993
- Prediction of body density from skinfold thickness in elderly subjects: are the existing equations valid? 52, 346A, 1993

Endocrine changes

- Metabolic and endocrine changes induced by heat exposure in chickens 52, 165A, 1993

Endotoxin

- Modulation of the response of rats to endotoxin by butter, olive oil and corn oil 52, 68A, 1993
- Vitamin E status modulates the inflammatory response to endotoxin in rats 52, 84A, 1993
- Modulation of the response of rats to endotoxin by butter, olive oil and corn oil 52, 227A, 1993
- Modest *in utero* protein restriction modulates responses to endotoxin in seven week old rats fed standard chow 52, 291A, 1993
- Effects of endotoxin on metabolic responses of rats fed with olive and maize oils and butter 52, 340A, 1993

Energy balance

- The importance of dietary fat in maintaining energy balance in a rural subsistence farming community 52, 48A, 1993

Energy deficiency

- Responses of chronically energy deficient tropical subjects to brief cold exposure 52, 92A, 1993

Energy density

- The effect of covert manipulation of dietary fat and energy density on *ad lib.* food intake in humans 52, 35A, 1993

Energy deprivation

- Effect of chronic energy deprivation on 24 h activity of lean and obese mice 52, 33A, 1993

Energy expenditure

- Resting energy expenditure with the ventilated hood and mouthpiece systems in patients with chronic lung disease 52, 6A, 1993
- Effects of potassium depletion and repletion on growth and resting energy expenditure in the growing rat 52, 66A, 1993
- Measurement of free-living energy expenditure by continuous heart rate monitoring and doubly-labelled water 52, 93A, 1993
- The effect of season and leisure activity on the energy expenditure of adult males 52, 94A, 1993
- An acute-phase protein response is associated with increased resting energy expenditure in weight-losing patients with either benign or malignant pancreatic disease 52, 240A, 1993
- Does dietary protein influence resting energy expenditure? 52, 305A, 1993
- 24h energy expenditure patterns in multiple organ failure 52, 306A, 1993
- Energy intake and energy expenditure in acute admissions to a geriatric unit 52, 307A, 1993
- Between- and within-subject variability in energy expenditure during physical activity 52, 312A, 1993
- Can recorded energy intake be used to estimate energy expenditure? 52, 342A, 1993

Energy intake

- Reported energy intakes and basal metabolic rates of normal healthy children aged 5-15 years 52, 97A, 1993

- Comparison of energy, ascorbic acid and fibre estimates by a food-frequency questionnaire and a 10 d weighed record in smokers 52, 112A, 1993
- Nutrient digestibility and energy use in growing medium breed puppies 52, 205A, 1993
- How much energy should we prescribe for patients with chronic renal failure? 52, 242A, 1993
- Energy restriction affects muscle fibre area and distribution selectively during growth 52, 298A, 1993
- The energy intakes of growing canaries 52, 299A, 1993
- Energy intake and energy expenditure in acute admissions to a geriatric unit 52, 307A, 1993
- Can recorded energy intake be used to estimate energy expenditure? 52, 342A, 1993
- Characteristics of people recording a low energy intake for body weight in a large national survey 52, 343A, 1993
- The effect of covert manipulation of dietary fat and energy density on *ad libitum* food intake in "free-living" humans 52, 348A, 1993
- Energy metabolism**
- Metabolic consequences of intestinal parasitism 52, 121, 1993
- Linoleic and α -linolenic acid oxidation during undernutrition: are they important in energy metabolism? 52, 47A, 1993
- Energy intakes and resting energy expenditure in children of short stature and those receiving growth hormone 52, 98A, 1993
- Protein and energy metabolism during mild zinc deficiency in adult man 52, 361A, 1993
- Energy partitioning**
- Energy partitioning, tissue growth and appetite control 52, 69, 1993
- Energy sparing**
- Evidence of energy-sparing adaptations in Gambian women during pregnancy, assessed by whole-body calorimetry 52, 102A, 1993
- Enterocytes**
- Genetic regulation of enterocyte differentiation 52, 293, 1993
- Postnatal development of glucose and galactose metabolism in isolated pig enterocytes 52, 194A, 1993
- Polyamine metabolism in enterocytes isolated from newborn pigs 52, 203A, 1993
- Entero-insular axis**
- The chronic and acute effects of tryptophan (TRP) on hormones of the enteroinsular axis 52, 130A, 1993
- Enzyme activity**
- Analytical characterization by reverse-phase HPLC of products obtained by *in vitro* enzymic hydrolysis of whey proteins with gastric and pancreatic proteases 52, 148A, 1993
- Distribution and post-prandial variations of the activity of polysaccharide-degrading enzymes in rumen micro-organisms 52, 150A, 1993
- Enzyme supplementation**
- Effect of heat treatment and enzyme supplementation of barley-based diets on performance of broiler chicks 52, 50A, 1993
- Effects of processing and feed enzymes on nutrient digestibility in diets for weaned pigs 52, 211A, 1993
- Effect of wheat bushel weight and enzyme supplementation on the apparent metabolizable energy content of diets and on broiler performance 52, 360A, 1993
- Enzyme synthesis**
- Molecular aspects of enzyme synthesis in the exocrine pancreas with emphasis on development and nutritional regulation 52, 301, 1993
- Epidemiology**
- Epidemiological aspects of fish in the diet 52, 437, 1993
- Essential fatty acids**
- Linoleic and α -linolenic acid oxidation during undernutrition: are they important in energy metabolism? 52, 47A, 1993
- Esterification**
- Esterification of oleic and arachidonic acids in mouse jejunum 52, 161A, 1993
- Euglycaemic clamp**
- Normal pregnancy: a state of insulin resistance? Studies with the euglycaemic clamp 52, 215A, 1993
- Exercise**
- Moderate exercise prior to ingestion of a high-fat meal decreases postprandial lipidaemia 52, 128A, 1993
- Dietary fat utilization by the exercising forearm 52, 282A, 1993
- Influence of the intensity of prior exercise on postprandial lipaemia in man 52, 284A, 1993
- Exercise-induced anorexia in lean men 52, 382A, 1993
- Faecal mass**
- The effect of non-starch polysaccharide on bacterial contribution to faecal mass 52, 41A, 1993
- Faecal microflora**
- Establishment of *Bifidobacterium bifidum* in the intestine of human neonates: relationship with the bifidus-factors found in the stools 52, 120A, 1993
- In vitro*-fermentation of purified fibre from brown algae by human faecal bacteria 52, 159A, 1993
- The effect of sucrose fatty esters on metabolism of human faecal bacteria 52, 160A, 1993
- Farm animals**
- The behavioural effects of undernutrition in confined farm animals 52, 219, 1993
- Fat**
- Utilization of intravenous fat in the surgical newborn infants 52, 237A, 1993
- Superior absorption of medium-chain triacylglycerols compared with conventional dietary

- long-chain fats in children with chronic liver disease 52, 253A, 1993
- Fat intake**
- Food sources of fat and sugar in the Northern Irish diet 52, 16A, 1993
- The acute effects of lunches of differing fat and carbohydrate content on mood and cognitive performance 52, 32A, 1993
- The effect of covert manipulation of dietary fat and energy density on *ad lib.* food intake in humans 52, 35A, 1993
- The importance of dietary fat in maintaining energy balance in a rural subsistence farming community 52, 48A, 1993
- The effect of dietary fatty acid composition on mRNA for lipoprotein lipase in the rat 52, 49A, 1993
- Effects of a 4-week dietary fat feeding trial on the metabolic responses to tumour necrosis factor α in rats 52, 67A, 1993
- The intestinal adaptive response of the rat to soluble non-starch polysaccharides is partially dependent on dietary fat 52, 119A, 1993
- Adaptation to high-fat diets: Effect on plasma cholecystokinin (CCK) and food intake 52, 127A, 1993
- Moderate exercise prior to ingestion of a high-fat meal decreases postprandial lipidaemia 52, 128A, 1993
- Effect of lipid supply in the diet of cows on calcium and magnesium pools in the rumen 52, 151A, 1993
- Adaptation of gastric lipase in mini-pigs fed on a high-fat diet 52, 166A, 1993
- Effect of progressive enrichment on monounsaturated fatty acids (MUFA) in the diet on serum lipids, lipoproteins and fatty acids in normolipidemic males 52, 197A, 1993
- Fats decrease gastric emptying rate and reduce post-prandial glycaemia 52, 199A, 1993
- Modification of postprandial substrate balance by the addition of fat 52, 236A, 1993
- The effect of dietary lipid manipulation on food intake, weight gain and tissue weights of rats 52, 267A, 1993
- The effect of dietary lipid manipulation on serum lipid concentrations and fatty acid composition 52, 268A, 1993
- The effect of test meal fatty acid composition on postprandial triacylglycerol and lipoprotein lipase responses in normal subjects 52, 283A, 1993
- The effect of dietary lipid manipulation on the natural killer cell activity of rat lymphocytes 52, 287A, 1993
- Low intensity exercise after consumption of a high-fat meal decreases postprandial lipaemia during the recovery period 52, 309A, 1993
- Evidence that fat oxidation is modulated by fat intake in lean but not in obese women 52, 310A, 1993
- Dietary lipids modulate the physicochemical characteristics of rat hepatocyte plasma membranes 52, 318A, 1993
- Nutritional implications of reduced-fat (RF) food use in free-living consumers 52, 325A, 1993
- Correction for measurement error in fat intakes estimated by a food frequency questionnaire 52, 327A, 1993
- Attitudes to fat and portion weights of fat spreads 52, 356A, 1993
- The effect in rats of intestinal intraluminal lipid on postprandial activity determined by Doppler shift radar 52, 359A, 1993
- Obesity as an adaptation to a high-fat diet: evidence from a cross-sectional study 52, 367A, 1993
- The prevalence of overweight and obesity in different fat and sugar consumption groups 52, 383A, 1993
- Fat substitutes: their potential effect on the fat content of the diet 52, 386A, 1993
- Fat metabolism**
- Effects of triacylglycerol structure on postprandial chylomicron triacylglycerol clearance 52, 52A, 1993
- Dietary fat utilization by the exercising forearm 52, 282A, 1993
- Evidence that fat oxidation is modulated by fat intake in lean but not in obese women 52, 310A, 1993
- Fat spreads**
- Attitudes to fat and portion weights of fat spreads 52, 356A, 1993
- Fat substitutes**
- Fat substitutes: their potential effect on the fat content of the diet 52, 386A, 1993
- Fat-free mass**
- Muscle thickness as an index of fat-free mass 52, 345A, 1993
- Fatty acids**
- The effect of biotin deficiency on the fatty acid composition of porcine tissues 52, 86A, 1993
- Short-chain fatty acids (SCFA) and colonic motility: influence on segmental motor patterns 52, 152A, 1993
- Effect of progressive enrichment on monounsaturated fatty acids (MUFA) in the diet on serum lipids, lipoproteins and fatty acids in normolipidemic males 52, 197A, 1993
- Short-chain fatty acids (SCFA) and colonic motility: influence on propulsive motor patterns 52, 198A, 1993
- The significance of *n*-3 fatty acids in fetal and neonatal development and some alternative sources 52, 224A, 1993
- Changes in short-chain fatty acids in experimental colitis 52, 256A, 1993
- Estimates of the vitamin E requirement in rats fed long-chain *n*-3 fatty acids 52, 319A, 1993
- Vitamin E and polyunsaturated fatty acid intake modulate the inflammatory response to cigarette smoke 52, 335A, 1993
- Influence of ethyl myristate, palmitate and oleate on plasma lipoprotein metabolism in the hamster 52, 364A, 1993

- The bio-availability of a ^{13}C labelled dietary fatty acid in healthy adults 52, 366A, 1993
- Feed intake**
- Some aspects of the biology of feeding and growth in fish 52, 403, 1993
- Variation in individual food consumption rates of fish and its implication for the study of fish nutrition and physiology 52, 427, 1993
- Cholecystokinin octapeptide suppresses feeding and conditions colour aversion in chickens 52, 30A, 1993
- The effect of dietary lipid manipulation on food intake, weight gain and tissue weights of rats 52, 267A, 1993
- Effects of overfeeding on protein-energy metabolism and body composition of high genetic potential boars 52, 297A, 1993
- The effect of subclinical parasitism with *Trichostrongylus colubriformis* on the diet selection of growing sheep 52, 353A, 1993
- Substitution of low-protein for high-protein feed by broiler chickens. 52, 355A, 1993
- Acute effect of peripheral interleukin- 1β administration on macronutrient selection in the rat 52, 358A, 1993
- Feeding behaviour**
- Food behaviour evolution in anorexia nervosa 52, 34A, 1993
- Fermentation**
- Factors affecting fermentation reactions in the large bowel 52, 367, 1993
- Involvement of sugar composition of dietary fibre in formation of short-chain fatty acids during *in vitro* fermentation with human microflora 52, 116A, 1993
- Effect of inulin on the fermentation profile in rats associated with human flora from low-, high- and non-methane producers 52, 154A, 1993
- Effects of colonic fermentation on respiratory gas exchanges following a glucose load in man 52, 155A, 1993
- Ruminal fermentation of neutral detergent fibre and nitrogen in legume, grass and mixtures by growing steers 52, 158A, 1993
- In vitro*-fermentation of purified fibre from brown algae by human faecal bacteria 52, 159A, 1993
- Fish consumption**
- Epidemiological aspects of fish in the diet 52, 437, 1993
- Variability of the composition of fish oils: significance for the diet 52, 441, 1993
- Fish consumption in North Glasgow: results from the MONICA studies of 1986 and 1989 52, 270A, 1993
- Contribution of selenium content of fish on dietary intake 52, 271A, 1993
- Fish nutrition**
- Some aspects of the biology of feeding and growth in fish 52, 403, 1993
- Variation in individual food consumption rates of fish and its implication for the study of fish nutrition and physiology 52, 427, 1993
- Nutritional requirements of fish 52, 417A, 1993
- Fish oil**
- Variability of the composition of fish oils: significance for the diet 52, 441, 1993
- Marine oils: metabolic effects and role in human nutrition 52, 457, 1993
- Postprandial lipid and lipoprotein response to a fish-oil test meal 52, 39A, 1993
- Basal and hormone-stimulated rates of lipogenesis in liver and adipose tissue of rats fed on corn oil and fish oil diets 52, 51A, 1993
- Fish oil supplementation changes membrane fluidity and phospholipid profiles in humans 52, 269A, 1993
- Lipid peroxidation and ultraviolet-B erythral responses in patients consuming fish oil supplements 52, 317A, 1993
- Folate**
- The effect of pregnancy on folate catabolism in the rat 52, 85A, 1993
- Food budgets**
- Modest-but-adequate food budgets for five household types 52, 42A, 1993
- Food choice**
- Exposure to choice feeding at different ages and the subsequent choice of broiler chickens 52, 354A, 1993
- Food deprivation**
- The effect of food deprivation, time of exposure and type of feed on diet selection of broiler chickens 52, 380A, 1993
- Food frequency questionnaire**
- The validation of a food frequency and amount questionnaire for assessing dietary antioxidant intakes amongst older adults 52, 63A, 1993
- Correction for measurement error in fat intakes estimated by a food frequency questionnaire 52, 327A, 1993
- An initial assessment of food and nutrient intake for the development of a food frequency questionnaire for use in an Afrocaribbean population sample 52, 328A, 1993
- Development of a food frequency questionnaire 52, 330A, 1993
- Food intake**
- The effect of covert manipulation of dietary fat and energy density on *ad lib.* food intake in humans 52, 35A, 1993
- The effect of meal size on the cardiovascular responses to food ingestion 52, 37A, 1993
- Dietary factors and vertebral bone density in perimenopausal women from a general medical practice in Northern Ireland 52, 44A, 1993
- Adaptation to high-fat diets: Effect on plasma cholecystokinin (CCK) and food intake 52, 127A, 1993
- Central and peripheral cardiovascular responses to meals of different composition measured over a 3 h period 52, 290A, 1993
- An initial assessment of food and nutrient intake for the development of a food frequency

- questionnaire for use in an Afrocaribbean population sample 52, 328A, 1993
- The effect of covert manipulation of dietary fat and energy density on *ad libitum* food intake in "free-living" humans 52, 348A, 1993
- The effect of the CCK receptor antagonist loxiglumide, on feeding behaviour in normal-weight volunteers 52, 350A, 1993
- The effect of covertly manipulating the dietary fat: carbohydrate ratio of isoenergetically dense diets on *ad lib.* food intake in "free-living" humans 52, 351A, 1993
- Food photographs**
- Development and evaluation of food photographs for use in retrospective dietary surveys 52, 329A, 1993
- Forage intake**
- The effect of increased ammonia supply on post-prandial hepatic metabolism in growing steers fed either forage or cereal-based diets 52, 295A, 1993
- Free radicals**
- Effect of vitamin C supplementation on the peroxy radical trapping ability (TRAP) of plasma from female smokers 52, 80A, 1993
- Freezing point**
- Factors affecting the freezing point depression of milk 2 52, 264A, 1993
- Fruit intake**
- Fruit and vegetable consumption in north Glasgow: some results from the MONICA study of 1986 and 1989 52, 12A, 1993
- Fungi**
- Ribosomal DNA-targeted hybridization probes for the detection, identification and quantitation of anaerobic rumen fungi 52, 176A, 1993
- Galactomannan**
- Microscopical location of guar galactomannan in mid-jejunal biopsies from the pig: potential long-term immunological implications 52, 285A, 1993
- The use of microscopy in the evaluation of the relationship between guar galactomannan and starch in guar wheat bread: subsequent physiological implications in the pig 52, 286A, 1993
- Effect of the addition of guar gum to an acute test meal on post-prandial lipaemia in healthy young adults 52, 288A, 1993
- Galactose**
- Postnatal development of glucose and galactose metabolism in isolated pig enterocytes 52, 194A, 1993
- Gastric function**
- Phytase activity in wheat bran subjected to simulated gastric digestion 52, 57A, 1993
- Adaptation of gastric lipase in mini-pigs fed on a high-fat diet 52, 166A, 1993
- Fats decrease gastric emptying rate and reduce post-prandial glycaemia 52, 199A, 1993
- The respective roles of gastric distension and intestinal nutrients in the induction of post-prandial sensations 52, 292A, 1993
- Gastrointestinal function**
- Postnatal growth of gut and muscle: competitors or collaborators 52, 57, 1993
- The chemistry of aluminium in the gastrointestinal lumen and its uptake and absorption 52, 241, 1993
- Dietary regulation of intestinal nutrient carriers 52, 315, 1993
- Manipulation of the gut microflora: experimental approach in animals 52, 345, 1993
- Manipulation of the human gut microflora 52, 357, 1993
- Factors affecting fermentation reactions in the large bowel 52, 367, 1993
- Interactions between nutrition and the intestinal microflora 52, 375, 1993
- Relationships between plasma, gastric tissue and gastric juice ascorbic acid levels in subjects with and without gastritis 52, 61A, 1993
- The intestinal adaptive response of the rat to soluble non-starch polysaccharides is partially dependent on dietary fat 52, 119A, 1993
- The adaptive response of the alimentary tract of the rat to soluble non-starch polysaccharide (NSP) components of oats 52, 124A, 1993
- Alteration by lymphokines of the epithelial function and barrier capacity of the human colon carcinoma cell line HT29-C119A 52, 134A, 1993
- Effect of soya-bean trypsin inhibitors in the diet on trypsin activities in pancreatic tissue and ileal digesta and trypsin inhibitor activity in small intestinal digesta of piglets 52, 141A, 1993
- Adaptation of gastric lipase in mini-pigs fed on a high-fat diet 52, 166A, 1993
- The behaviour of Co-EDTA- and Yt-labelled hay in the gastrointestinal tract of sheep 52, 178A, 1993
- Dietary fibre and cell proliferation in the stomach 52, 208A, 1993
- Gastro-oesophageal reflux**
- Change in oesophageal pH: what does it tell us about gastro-oesophageal reflux in preterm infants? 52, 220A, 1993
- Gene expression**
- Pharmacological and biochemical evidence for differential expression of A- and B-subtype CCK-gastrin receptors in the calf pancreas during development 52, 169A, 1993
- Molecular isolation of genes expressed in the differentiated epithelium of the pig small intestine 52, 187A, 1993
- Programming of expression of disaccharidases in the neonatal small intestine: use of a xenograft model 52, 210A, 1993
- General practitioners**
- The place of nutrition in the general practice consultation: a pilot study 52, 106A, 1993
- Genetic regulation**
- Genetic regulation of enterocyte differentiation 52, 293, 1993

Giardia lamblia

A follow-up study to investigate an increase in *Giardia lamblia* infection among Bangladeshi children receiving regular anthelmintic treatment 52, 8A, 1993

Glucagon-like peptides

Glucagon-like peptide-1₍₇₋₃₆₎ amide and glucose-dependent insulinotropic polypeptide in the hyperinsulinaemia of obese hyperglycaemic (*ob/ob*) mice 52, 38A, 1993

Glucose clamping

Metabolic and hormonal effects of hyperglycaemic glucose clamping in multiple organ failure 52, 235A, 1993

Glucose metabolism

Influence of the weaning diet on the changes of glucose metabolism and of insulin sensitivity 52, 325, 1993

Effects of colonic fermentation on respiratory gas exchanges following a glucose load in man 52, 155A, 1993

[1-¹³C]Leucine uptake into the portal vein of sheep receiving exogenous glucose intravascularly or intraduodenally 52, 192A, 1993

Postnatal development of glucose and galactose metabolism in isolated pig enterocytes 52, 194A, 1993

Manipulation of glucose utilization in multiple organ failure using somatostatin 52, 234A, 1993

The effect of glucose intake on substrate utilization and energy expenditure in the surgical newborn infant 52, 238A, 1993

The metabolic effects of acute hyperketonaemia on whole body and forearm glucose disposal 52, 281A, 1993

The use of microscopy in the evaluation of the relationship between guar galactomannan and starch in guar wheat bread: subsequent physiological implications in the pig 52, 286A, 1993

Concentrations of serum cortisol, insulin and blood glucose in dairy cows fed on diets with different amounts of concentrate and roughage 52, 363A, 1993

Glutamine metabolism

Effects of glutamine feeding on plasma and muscle glutamine levels and on glutamine synthetase activity and glutamine release in the rat 52, 69A, 1993

The effect of surgery and growth hormone suppression on plasma muscle and glutamine levels 52, 70A, 1993

[¹⁵N] and [¹⁴C]glutamine fluxes across rabbit ileum in experimental bacterial diarrhoea 52, 193A, 1993

The effect of enteral glutamine deprivation on rat gut mucosa during a systemic injury response 52, 259A, 1993

Glutathione peroxidase (EC 1.11.1.9)

Selenium and glutathione peroxidase status in preterm infants in a low Se area 52, 221A, 1993

Glycaemia

Fats decrease gastric emptying rate and reduce post-prandial glycaemia 52, 199A, 1993

Glycinin

Soya-bean glycinin and β -conglycinin resistance to digestion in the preruminant calf 52, 140A, 1993

Glycolysis

The naturally-occurring dietary flavonoid quercetin: *in vitro* investigation of its effects on glycolytic flux 52, 95A, 1993

Rapid modulation of lactate utilization by inhibition of glycolysis in isolated hepatocytes from fed rats 52, 163A, 1993

Glycoprotein

Developmental changes in intestinal glycoprotein glycosylation; relationship with diet changes at weaning and hormonal variations 52, 189A, 1993

Goblet cells

Effects of inulin on goblet cell distribution and mucin type in the hindgut of heteroxenic rats 52, 146A, 1993

Goitre

Factors contributing to goitre in pregnant women in Bangladesh 52, 324A, 1993

Growth

Some aspects of the biology of feeding and growth in fish 52, 403, 1993

Effects of potassium depletion and repletion on growth and resting energy expenditure in the growing rat 52, 66A, 1993

Differential effects of epidermal growth factor and transforming growth factor- α on gastrointestinal epithelial cell proliferation 52, 185A, 1993

The effect of pattern of nutrient supply during lamb growth on the digestive tract proportions 52, 188A, 1993

Growth factors in colostrum: receptor localization and stimulation of phosphorylation in microvillar membranes of neonatal pigs 52, 213A, 1993

Reduced head growth from the second trimester of pregnancy to age 2 years: implication for health in adulthood 52, 216A, 1993

Chronic lung disease, dexamethasone and linear growth in neonates 52, 225A, 1993

The effect of dietary lipid manipulation on food intake, weight gain and tissue weights of rats 52, 267A, 1993

Energy restriction affects muscle fibre area and distribution selectively during growth 52, 298A, 1993

The energy intakes of growing canaries 52, 299A, 1993

Growth hormone

The effect of surgery and growth hormone suppression on plasma muscle and glutamine levels 52, 70A, 1993

Energy intakes and resting energy expenditure in children of short stature and those receiving growth hormone 52, 98A, 1993

- Stimulation of calcium absorption in growing pigs treated for 2 months with porcine growth hormone (GH) 52, 191A, 1993
- Human growth hormone improves body-weight but not disease activity in a chronic model of colitis 52, 255A, 1993
- Unilateral intramammary infusion of GH does not support a local galactopoietic action of growth hormone in goats 52, 278A, 1993
- The interaction between plane of nutrition and response to growth hormone on fat and protein metabolism in cattle 52, 301A, 1993
- Growth regulation**
- Micronutrients and longitudinal growth 52, 49, 1993
- Postnatal growth of gut and muscle: competitors or collaborators 52, 57, 1993
- Energy partitioning, tissue growth and appetite control 52, 69, 1993
- Guar gum**
- Microscopical location of guar galactomannan in mid-jejunal biopsies from the pig: potential long-term immunological implications 52, 285A, 1993
- The use of microscopy in the evaluation of the relationship between guar galactomannan and starch in guar wheat bread: subsequent physiological implications in the pig 52, 286A, 1993
- Effect of the addition of guar gum to an acute test meal on post-prandial lipaemia in healthy young adults 52, 288A, 1993
- The effect of two types of guar gum in solid and liquid foods on postprandial blood glucose, plasma insulin and C-peptide in obese subjects 52, 378A, 1993
- Gut microflora**
- Manipulation of the gut microflora: experimental approach in animals 52, 345, 1993
- Manipulation of the human gut microflora 52, 357, 1993
- Maintaining the patterns of human milk-induced gut microflora after supplementary feeding of beikost 52, 121A, 1993
- Metabolic characteristics of isolated colonocytes: modulation by dietary fibre or by the colonic microflora 52, 133A, 1993
- Effects of inulin on goblet cell distribution and mucin type in the hindgut of heteroxenic rats 52, 146A, 1993
- Contribution of intestinal microflora to lysine requirements in non-ruminants 52, 153A, 1993
- Adaptation of the exocrine pancreas to high-protein diet in germ-free and conventional rats 52, 168A, 1993
- Contribution of intestinal microflora to lysine requirements in rats 52, 368A, 1993
- Hair follicles**
- Response of secondary hair follicles of the Cashmere goat to prolactin *in vitro*. 52, 263A, 1993
- Heart cells**
- Effect of cholesterol feeding on DNA damage in hamster heart cells 52, 374A, 1993
- Heat exposure**
- Metabolic and endocrine changes induced by heat exposure in chickens 52, 165A, 1993
- Heat treatment**
- Effect of heat treatment and enzyme supplementation of barley-based diets on performance of broiler chicks 52, 50A, 1993
- Hepatic drug metabolism**
- Hepatic drug-metabolizing enzymes in spontaneously obese hyperglycaemic (*ob/ob*) mice 52, 43A, 1993
- Hepatic metabolism**
- Vitamin A levels in a sample of Irish animal livers 52, 58A, 1993
- Nitrogen metabolism across the liver of growing steers fed a high nitrogen grass pellet diet 52, 105A, 1993
- The ontogenic development of the active form of hepatic pyruvate dehydrogenase (*EC* 1.2.4.1) during the sucking-weaning transition 52, 174A, 1993
- The effect of increased ammonia supply on post-prandial hepatic metabolism in growing steers fed either forage or cereal-based diets 52, 295A, 1993
- Hepatocytes**
- Rapid modulation of lactate utilization by inhibition of glycolysis in isolated hepatocytes from fed rats 52, 163A, 1993
- High-performance liquid chromatography**
- Analytical characterization by reverse-phase HPLC of products obtained by *in vitro* enzymic hydrolysis of whey proteins with gastric and pancreatic proteases 52, 148A, 1993
- Histamine₂ antagonists**
- Preventing steroid-associated gastric perforation with histamine₂ antagonists 52, 219A, 1993
- Histology**
- Histological consequences of different surgical procedures for ileorectostomy in pigs 52, 182A, 1993
- HIV infection**
- Causes of weight loss in Human Immunodeficiency Virus infection 52, 3A, 1993
- Patterns of weight change in stage IV HIV infection 52, 246A, 1993
- Homocysteinaemia**
- Serum antioxidants and malondialdehyde in homocysteinaemics with coronary heart disease, non-homocysteinaemics with coronary heart disease, and normal control subjects 52, 73A, 1993
- Hospital food**
- Assessment of nutritional status of hospitalized general surgical patients in Ibadan, Nigeria 52, 46A, 1993
- Human nutrition**
- Marine oils: metabolic effects and role in human nutrition 52, 457, 1993

Hybridization probes

- Ribosomal DNA-targeted hybridization probes for the detection, identification and quantitation of anaerobic rumen fungi 52, 176A, 1993

Hydrogen

- Enumeration of bacteria forming acetate from H₂ and CO₂ and other H₂-utilizing microorganisms from the digestive tract of animals and man 52, 117A, 1993
- Competition for hydrogen between methanogenesis and hydrogenotrophic acetogenesis in human colonic flora studied by ¹³C NMR 52, 118A, 1993

Hypercholesterolaemia

- Effect of baked beans on steroid metabolism of hypercholesterolaemic pigs 52, 164A, 1993
- The effects of psyllium on blood lipids in hypercholesterolaemic subjects 52, 371A, 1993

Hyperketonaemia

- The metabolic effects of acute hyperketonaemia on whole body and forearm glucose disposal 52, 281A, 1993

Hypertension

- In utero* exposure to maternal low-protein diets induces hypertension in rats 52, 274A, 1993

Hypothyroidism

- Effect of hypothyroidism on insulin-like growth factor (IGF-1) status in the postnatal lamb 52, 276A, 1993

Ileal integrity

- Effects of polymer feeds on ileal integrity as assessed by diamine oxidase release 52, 74A, 1993

Ileorectostomy

- Histological consequences of different surgical procedures for ileorectostomy in pigs 52, 182A, 1993

Ileostomy

- Amino acid losses in ileostomy fluid on a protein-free diet 52, 147A, 1993

Immune function

- Nutrition and the immune system 52, 77, 1993
- The immunological effects of trauma 52, 85, 1993
- The effects of lipids on some aspects of the cellular immune response 52, 91, 1993
- Iron, infection and immune function 52, 165, 1993
- Immunological function in copper deficiency 52, 28A, 1993
- Effects of glutamine feeding on plasma and muscle glutamine levels and on glutamine synthetase activity and glutamine release in the rat 52, 69A, 1993
- Undernutrition in drug addicts. Immunological study 52, 261A, 1993
- Microscopical location of guar galactomannan in mid-jejunal biopsies from the pig: potential long-term immunological implications 52, 285A, 1993

- The effect of dietary lipid manipulation on the natural killer cell activity of rat lymphocytes 52, 287A, 1993

Inflammatory bowel disease

- Adipose tissue profiles in inflammatory bowel disease 52, 5A, 1993
- Increased TNF production does not correlate with cachexia in chronic inflammatory bowel disease 52, 71A, 1993

Inflammatory response

- Vitamin E status modulates the inflammatory response to endotoxin in rats 52, 84A, 1993
- Dietary lipids modulate the physicochemical characteristics of rat hepatocyte plasma membranes 52, 318A, 1993

Infancy

- Plasma ascorbic acid and dehydroascorbic acid levels in very low-birth weight infants 52, 77A, 1993
- Tyrosine metabolism in premature babies: effects of vitamin C intake 52, 78A, 1993
- Lactose digestion in breast-fed Gambian infants 52, 101A, 1993
- Iron deficiency in Asian toddlers and the failure of progression of the weaning process 52, 103A, 1993
- Perirenal adipose tissue development in artificially- and ewe-reared lambs over the first month of life 52, 104A, 1993
- Does a maternal milk-free diet prevent allergy in the 'at-risk' infant? 52, 217A, 1993
- Nutritional composition (by chemical analysis) of home-prepared weaning foods for infants 52, 384A, 1993

Infection

- Iron, infection and immune function 52, 165, 1993
- Influence of illness on serum retinol of children in northern Ghana 52, 64A, 1993

Insulin

- Influence of the weaning diet on the changes of glucose metabolism and of insulin sensitivity 52, 325, 1993
- Glucagon-like peptide-1₍₇₋₃₆₎ amide and glucose-dependent insulinotropic polypeptide in the hyperinsulinaemia of obese hyperglycaemic (*ob/ob*) mice 52, 38A, 1993
- The chronic and acute effects of tryptophan (TRP) on hormones of the enteroinsular axis 52, 130A, 1993
- Insulin and intestinal epithelial cell proliferation 52, 186A, 1993
- Normal pregnancy: a state of insulin resistance? Studies with the euglycaemic clamp 52, 215A, 1993
- Concentrations of serum cortisol, insulin and blood glucose in dairy cows fed on diets with different amounts of concentrate and roughage 52, 363A, 1993

Insulin-like growth factor 1

- Effect of pea intake on bone protein synthesis and immunoreactive IGF 52, 139A, 1993

- Effect of hypothyroidism on insulin-like growth factor (IGF-1) status in the postnatal lamb
52, 276A, 1993
- Interleukins**
- Interleukin-2 and T-lymphocytes in mice fed on a legume diet 52, 135A, 1993
- Short-term parenteral feeding does not mitigate the decrease in albumin synthesis rates induced by interleukin-1 β or turpentine injection in the rat 52, 231A, 1993
- The effect of nutritional status on interleukin-6 response to elective surgery 52, 232A, 1993
- The influence of interleukin-6 (IL-6) and dietary lipids on total protein synthesis rates in cultured rat hepatocytes 52, 337A, 1993
- Acute effect of peripheral interleukin-1 β administration on macronutrient selection in the rat 52, 358A, 1993
- Intestinal epithelium**
- Differential effects of epidermal growth factor and transforming growth factor- α on gastrointestinal epithelial cell proliferation 52, 185A, 1993
- Insulin and intestinal epithelial cell proliferation 52, 186A, 1993
- Molecular isolation of genes expressed in the differentiated epithelium of the pig small intestine 52, 187A, 1993
- Inulin**
- Effects of inulin on goblet cell distribution and mucin type in the hindgut of heteroxenic rats 52, 146A, 1993
- Effect of inulin on the fermentation profile in rats associated with human flora from low-, high- and non-methane producers 52, 154A, 1993
- Iodothyronine 5' deiodinase**
- Maternal manipulation of iodothyronine 5' deiodinase activity in the ovine foetus 52, 300A, 1993
- Iron**
- Iron, infection and immune function 52, 165, 1993
- Effect of myofibrillar muscle proteins on *in vitro* biolysability of iron 52, 21A, 1993
- Effect of tannic acid on iron and zinc absorption from a model food system in sucking rats 52, 22A, 1993
- The effect of dietary fibres on iron and zinc absorption in sucking rats 52, 23A, 1993
- Iron deficiency in Asian toddlers and the failure of progression of the weaning process 52, 103A, 1993
- An assessment of the iron status of a sample of normal, healthy, 1-year-old children 52, 333A, 1993
- Isotope labelling**
- Assessment of exchangeable pools of zinc using the stable isotope ⁷⁰zinc 52, 24A, 1993
- Competition for hydrogen between methanogenesis and hydrogenotrophic acetogenesis in human colonic flora studied by ¹³C NMR 52, 118A, 1993
- Tracer investigation of taurine metabolism in cats 52, 129A, 1993
- The behaviour of Co-EDTA- and Yt-labelled hay in the gastrointestinal tract of sheep 52, 178A, 1993
- [1-¹³C]Leucine uptake into the portal vein of sheep receiving exogenous glucose intravascularly or intraduodenally 52, 192A, 1993
- [¹⁵N] and [¹⁴C]glutamine fluxes across rabbit ileum in experimental bacterial diarrhoea 52, 193A, 1993
- The recovery of labelled carbon dioxide in pregnant subjects 52, 247A, 1993
- Non-linear incorporation of tracer into non-albumin plasma protein as a result of a flooding dose of leucine 52, 250A, 1993
- Collagen synthesis in human bone measured using stable isotope-labelled alanine and proline 52, 258A, 1993
- New analytical techniques and considerations for measuring ¹³C-labelled amino acids at sub-micro molar levels 52, 303A, 1993
- Urea kinetics in free-living female vegetarians measured with a single-dose method 52, 341A, 1993
- Methodological considerations of ¹³C breath studies 52, 365A, 1993
- The bio-availability of a ¹³C labelled dietary fatty acid in healthy adults 52, 366A, 1993
- Contribution of intestinal microflora to lysine requirements in rats 52, 368A, 1993
- Lactate**
- Chronic undernutrition in pregnancy and lactation 52, 19, 1993
- Effect of diet and stage of lactation on milk composition in rats. 52, 100A, 1993
- Lactose digestion in breast-fed Gambian infants 52, 101A, 1993
- Rapid modulation of lactate utilization by inhibition of glycolysis in isolated hepatocytes from fed rats 52, 163A, 1993
- Unilateral intramammary infusion of GH does not support a local galactopoietic action of growth hormone in goats 52, 278A, 1993
- Lactose**
- Lactose digestion in breast-fed Gambian infants 52, 101A, 1993
- Lactulose**
- Adaptation to two doses of lactulose by human colonic flora in continuous culture 52, 156A, 1993
- Laparoscopic cholecystectomy**
- Metabolic and inflammatory changes following laparoscopic cholecystectomy 52, 254A, 1993
- Leaf concentrate**
- Supplementing meals with leaf concentrate in Sri Lankan nursery schools: impact on anthropometric status 52, 99A, 1993
- Learning**
- 'Malnutrition, Learning and Behavior': 25 years on from the MIT Symposium 52, 189, 1993
- Legumes**
- Nutritional value of lentil and effect of cooking

- on free amino acid tissue concentrations of growing rats 52, 132A, 1993
 - Interleukin-2 and T-lymphocytes in mice fed on a legume diet 52, 135A, 1993
 - Pancreas enlargement induced in rats by long-term consumption of dietary legume proteins 52, 137A, 1993
- Leucine**
 - Non-linear incorporation of tracer into non-albumin plasma protein as a result of a flooding dose of leucine 52, 250A, 1993
- Leukaemia**
 - Weight-for-height influences outcome in childhood leukaemia 52, 96A, 1993
- γ -Linoleic acid**
 - Effect of oral administration of an oil enriched in γ -linolenic acid in platelet aggregation and lipid composition in alcoholic patients during withdrawal 52, 196A, 1993
- γ -Linolenic acid**
 - Infusion of the lithium salt of γ -linolenic acid into pancreatic cancer patients increases thymidine uptake and induces tumour necrosis factor release by peripheral blood mononuclear cells 52, 244A, 1993
- Lipid emulsions**
 - The effects of lipids on some aspects of the cellular immune response 52, 91, 1993
- Lipid infusion**
 - The respective roles of gastric distension and intestinal nutrients in the induction of postprandial sensations 52, 292A, 1993
- Lipid metabolism**
 - Postprandial lipid and lipoprotein response to a fish-oil test meal 52, 39A, 1993
- Lipid peroxidation**
 - Antioxidant protection of the anoxic-reoxygenated heart 52, 62A, 1993
 - Indices of lipid peroxidation in the heart of vitamin E-deficient pigs with or without supplementation with polyunsaturated fatty acids 52, 81A, 1993
 - Lipid peroxidation and ultraviolet-B erythema responses in patients consuming fish oil supplements 52, 317A, 1993
 - Antioxidant vitamin status, lipid peroxidation, and indices of nitric oxide production in patients with sepsis and secondary organ dysfunction 52, 334A, 1993
- Lipogenesis**
 - Basal and hormone-stimulated rates of lipogenesis in liver and adipose tissue of rats fed on corn oil and fish oil diets 52, 51A, 1993
- Lipoprotein**
 - Measurement of apolipoprotein B-48 with a novel specific antibody reveals two postprandial peaks of intestinal origin 52, 289A, 1993
- Lipoprotein lipase (EC 3.1.1.34)**
 - The effect of dietary fatty acid composition on mRNA for lipoprotein lipase in the rat 52, 49A, 1993
 - The effect of test meal fatty acid composition on postprandial triacylglycerol and lipoprotein lipase responses in normal subjects 52, 283A, 1993
- Lipoprotein metabolism**
 - Moderate exercise prior to ingestion of a high-fat meal decreases postprandial lipidaemia. 52, 128A, 1993
 - Effect of progressive enrichment on monounsaturated fatty acids (MUFA) in the diet on serum lipids, lipoproteins and fatty acids in normolipidemic males 52, 197A, 1993
 - Influence of ethyl myristate, palmitate and oleate on plasma lipoprotein metabolism in the hamster 52, 364A, 1993
- Liver disease**
 - Superior absorption of medium chain triacylglycerols compared with conventional dietary long-chain fats in children with chronic liver disease 52, 253A, 1993
- Liver transplantation**
 - Antioxidant status during liver transplantation 52, 316A, 1993
- Lung disease**
 - Resting energy expenditure with the ventilated hood and mouthpiece systems in patients with chronic lung disease 52, 6A, 1993
- Lupin**
 - Proteins from different cultivars and varieties of lupins resistant to *in vitro* rumen digestion 52, 180A, 1993
- Lymphocytes**
 - The effect of triacylglycerols on lymphocyte proliferation 52, 55A, 1993
 - The effect of dietary lipid manipulation on the natural killer cell activity of rat lymphocytes 52, 287A, 1993
 - The effect of dietary lipid manipulation on lymphocyte proliferation 52, 375A, 1993
 - Variations in the formulation of commercially-available oral rehydration solutions intended for use in the treatment of diarrhoea 52, 379A, 1993
- Lymphokines**
 - Alteration by lymphokines of the epithelial function and barrier capacity of the human colon carcinoma cell line HT29-C119A 52, 134A, 1993
- Lysine**
 - Contribution of intestinal microflora to lysine requirements in non-ruminants 52, 153A, 1993
 - Bioavailability and pharmacokinetics of synthetic lysine (LYS) and methionine (MET) in pigs 52, 172A, 1993
 - Contribution of intestinal microflora to lysine requirements in rats 52, 368A, 1993
- Masai**
 - Does chronic undernutrition in adult Masai influence morbidity and survival? 52, 107A, 1993
- Macronutrients**
 - The digestibility of macronutrients in the growing domestic cat 52, 275A, 1993

- Acute effect of peripheral interleukin-1 β administration on macronutrient selection in the rat
52, 358A, 1993
- Magnesium**
Effect of lipid supply in the diet of cows on calcium and magnesium pools in the rumen
52, 151A, 1993
- Maize oil**
Modulation of the response of rats to endotoxin by butter, olive oil and corn oil 52, 68A, 1993
Modulation of the response of rats to endotoxin by butter, olive oil and corn oil
52, 227A, 1993
Modulatory effects of olive and maize oils and butter on the response of protein synthesis in liver, lung, kidney to endotoxin in rats
52, 336A, 1993
- Malabsorption**
D-Xylose absorption test for malabsorption in tapeworm-infected sheep 52, 142A, 1993
- Malaria**
Phospholipid-2-9,12,15-linolenic acid in Gambian children with *Plasmodium falciparum* malaria
52, 10A, 1993
- Malnutrition**
Aid programmes for malnutrition and the role of the nutritionist 52, 175, 1993
'Malnutrition, Learning and Behavior': 25 years on from the MIT Symposium 52, 189, 1993
Some aspects of the long-term effects of malnutrition on the behaviour of children in the Third World 52, 201, 1993
Breast-feeding and other prognostic factors among malnourished children admitted for diarrhoea in a Madagascar hospital
52, 202A, 1993
- Maternal diet**
Maternal diet and social class in the East End of London 52, 18A, 1993
- Meal characteristics**
The effect of meal size on the cardiovascular responses to food ingestion 52, 37A, 1993
- Meat products**
Cholesterol oxidation in porcine muscle as influenced by pig diet 52, 54A, 1993
- Membrane**
Diversity of membrane sialo-glycoconjugates in the developing porcine small intestine
52, 195A, 1993
Fish oil supplementation changes membrane fluidity and phospholipid profiles in humans
52, 269A, 1993
- Menstrual cycle**
Urea kinetics in healthy young women
52, 88A, 1993
- Message construction**
Positive and negative message constructions in nutrition education 52, 357A, 1993
- Metabolic acidosis**
The correction of metabolic acidosis in chronic renal failure reduces whole-body protein breakdown and amino acid oxidation
52, 257A, 1993
- Metabolic adaptation**
Chronic undernutrition and metabolic adaptation
52, 267, 1993
- Metabolic rate**
Reported energy intakes and basal metabolic rates of normal healthy children aged 5-15 years
52, 97A, 1993
- Metabolic responses**
Marine oils: metabolic effects and role in human nutrition 52, 457, 1993
Effects of a 4-week dietary fat feeding trial on the metabolic responses to tumour necrosis factor α in rats
52, 67A, 1993
Effects of glycine and arginine supplementation on the metabolic response to tumour necrosis factor in rats fed low-protein diets
52, 90A, 1993
Metabolic and endocrine changes induced by heat exposure in chickens 52, 165A, 1993
Metabolic features of multiple organ failure
52, 233A, 1993
Metabolic and hormonal effects of hyperglycaemic glucose clamping in multiple organ failure
52, 235A, 1993
Metabolic effects of 3 h infusion of dopamine at 2 μ g and 5 μ g/min per kg
52, 249A, 1993
Metabolic and inflammatory changes following laparoscopic cholecystectomy 52, 254A, 1993
Effects of endotoxin on metabolic responses of rats fed with olive and maize oils and butter
52, 340A, 1993
- Metabolizable energy**
Effect of wheat bushel weight and enzyme supplementation on the apparent metabolizable energy content of diets and on broiler performance
52, 360A, 1993
- Methane**
Effect of inulin on the fermentation profile in rats associated with human flora from low-, high- and non-methane producers 52, 154A, 1993
- Methionine**
Bioavailability and pharmacokinetics of synthetic lysine (LYS) and methionine (MET) in pigs
52, 172A, 1993
Effect of dietary methionine concentration on plasma free amino acid levels in genetically lean and fat chickens
52, 173A, 1993
- Microbial activity**
Manipulation of the gut microflora: experimental approach in animals 52, 345, 1993
Manipulation of the human gut microflora
52, 357, 1993
Factors affecting fermentation reactions in the large bowel 52, 367, 1993
Interactions between nutrition and the intestinal microflora 52, 375, 1993
Involvement of sugar composition of dietary fibre in formation of short-chain fatty acids during *in vitro* fermentation with human microflora
52, 116A, 1993
Enumeration of bacteria forming acetate from H₂ and CO₂ and other H₂-utilizing microorganisms from the digestive tract of animals and man
52, 117A, 1993

- Growth of bifidobacteria in continuous culture 52, 125A, 1993
- High bacterial counts in the proximal small intestine: an unexpected finding in normal cats 52, 126A, 1993
- Distribution and post-prandial variations of the activity of polysaccharide-degrading enzymes in rumen micro-organisms 52, 150A, 1993
- Adaptation to two doses of lactulose by human colonic flora in continuous culture 52, 156A, 1993
- The effect of sucrose fatty esters on metabolism of human faecal bacteria 52, 160A, 1993
- Effects of phenolic acids on ruminal proteolytic bacteria 52, 179A, 1993
- Colon simulation technique as an *in vitro* model to study the effects of diet on microbial production of enzymes potentially involved in colon cancer 52, 183A, 1993
- Antimicrobial activity and long-term use of Taurolin as an additive to parenteral nutrition 52, 245A, 1993
- Micronutrients**
- Micronutrients and longitudinal growth 52, 49, 1993
- Vitamin undernutrition 52, 143, 1993
- Micronutrient undernutrition in British school-children 52, 155, 1993
- The chemistry of aluminium in the gastrointestinal lumen and its uptake and absorption 52, 241, 1993
- Micronutrient deficiencies in the preterm neonate 52, 285, 1993
- A conceptual approach to the determination of upper safe limits for the consumption of micronutrients 52, 59A, 1993
- Effects of iodine and retinol supplementation on thyroid function in pre-school children in the Morogoro Region of Tanzania 52, 60A, 1993
- Risk factors for intra-uterine growth retardation in Campinas, Brazil 52, 65A, 1993
- Responses to riboflavin and multivitamin supplements by Gambian school children 52, 331A, 1993
- Migration**
- Nutrition and migration: people on the move 52, 265, 1993
- Milk**
- Effect of diet and stage of lactation on milk composition in rats. 52, 100A, 1993
- Nutrient intakes in a group of self-reported milk allergy subjects. 52, 110A, 1993
- Maintaining the patterns of human milk-induced gut microflora after supplementary feeding of beikost 52, 121A, 1993
- Pancreatic nutritional adaptation in calves: effect of pea flour incorporation in the milk substitute 52, 145A, 1993
- Nutritive value of goat's and cow's milk crude protein and ileal digestibility of their amino acids by the growing pig 52, 204A, 1993
- Does a maternal milk-free diet prevent allergy in the 'at-risk' infant? 52, 217A, 1993
- Factors affecting the freezing point depression of milk 2 52, 264A, 1993
- Calcium absorption from cow's milk and soya milks in young rats 52, 273A, 1993
- Mineral supplementation**
- Small-intestinal absorption of minerals during enteral feeding supplemented with a soya-bean polysaccharide and soya-bean oligosaccharide fibre 52, 241A, 1993
- MONICA studies**
- Fish consumption in North Glasgow: results from the MONICA studies of 1986 and 1989 52, 270A, 1993
- Morbidity**
- Does chronic undernutrition in adult Masai influence morbidity and survival? 52, 107A, 1993
- Motor patterns**
- Short-chain fatty acids (SCFA) and colonic motility: influence on segmental motor patterns 52, 152A, 1993
- Short-chain fatty acids (SCFA) and colonic motility: influence on propulsive motor patterns 52, 198A, 1993
- Multiple organ failure**
- Metabolic features of multiple organ failure 52, 233A, 1993
- Manipulation of glucose utilization in multiple organ failure using somatostatin 52, 234A, 1993
- Metabolic and hormonal effects of hyperglycaemic glucose clamping in multiple organ failure 52, 235A, 1993
- 24h energy expenditure patterns in multiple organ failure 52, 306A, 1993
- Muscle plasma membrane**
- Stability of vitamin E-deficient muscle plasma membrane 52, 82A, 1993
- Myofibrillar muscle proteins**
- Effect of myofibrillar muscle proteins on *in vitro* biolysability of iron 52, 21A, 1993
- N metabolism**
- Nitrogen metabolism across the liver of growing steers fed a high nitrogen grass pellet diet 52, 105A, 1993
- Soya-bean glycinin and β -conglycinin resistance to digestion in the preruminant calf 52, 140A, 1993
- National survey**
- Ireland: a comparison of food and nutrient trends in the national surveys 52, 17A, 1993
- Neonate**
- Micronutrient deficiencies in the preterm neonate 52, 285, 1993
- Establishment of *Bifidobacterium bifidum* in the intestine of human neonates: relationship with the bifidus-factors found in the stools 52, 120A, 1993
- Differential effects of dietary proteins on protein synthesis activity in several tissues of newborn lambs 52, 131A, 1993

- Programming of expression of disaccharidases in the neonatal small intestine: use of a xenograft model 52, 210A, 1993
- Retinol administration in neonates: are we giving enough? 52, 222A, 1993
- Postnatal changes in bone mineral content in preterm infants 52, 223A, 1993
- The significance of *n-3* fatty acids in fetal and neonatal development and some alternative sources 52, 224A, 1993
- Chronic lung disease, dexamethasone and linear growth in neonates 52, 225A, 1993
- Utilization of intravenous fat in the surgical newborn infants 52, 237A, 1993
- The effect of glucose intake on substrate utilization and energy expenditure in the surgical newborn infant 52, 238A, 1993
- Neuropeptide Y**
Neuropeptide Y is increased in appetite-regulating hypothalamic areas of lactating rats 52, 218A, 1993
- Nitric oxide**
Antioxidant vitamin status, lipid peroxidation, and indices of nitric oxide production in patients with sepsis and secondary organ dysfunction 52, 334A, 1993
- Non-starch polysaccharides**
The effect of non-starch polysaccharide on bacterial contribution to faecal mass 52, 41A, 1993
The intestinal adaptive response of the rat to soluble non-starch polysaccharides is partially dependent on dietary fat 52, 119A, 1993
The adaptive response of the alimentary tract of the rat to soluble non-starch polysaccharide (NSP) components of oats 52, 124A, 1993
Quantitative assessment of the effect of non-starch polysaccharides on nutrient absorption in the pig: use of a transit time ultrasound flow probe 52, 200A, 1993
The effect of two Nigerian feeds containing non-starch polysaccharides on postprandial blood glucose and insulin levels in healthy subjects 52, 377A, 1993
- Nutrient absorption**
Net absorption of low molecular weight peptides by the mesenteric- and portal-drained viscera of steers 52, 190A, 1993
Quantitative assessment of the effect of non-starch polysaccharides on nutrient absorption in the pig: use of a transit time ultrasound flow probe 52, 200A, 1993
- Nutrient balance**
The influence of acetate and nutrient balance on ouabain-sensitive respiration in ovine liver 52, 56A, 1993
- Nutrient carriers**
Dietary regulation of intestinal nutrient carriers 52, 315, 1993
- Nutrient digestibility**
Nutrient digestibility and energy use in growing medium breed puppies 52, 205A, 1993
- Effects of processing and feed enzymes on nutrient digestibility in diets for weaned pigs 52, 211A, 1993
- Nutrient intake**
Eating habits, nutrient intake and growth in pre-school children 52, 11A, 1993
Ireland: a comparison of food and nutrient trends in the national surveys 52, 17A, 1993
Increased albumin synthesis in healthy volunteers with feeding 52, 91A, 1993
Nutrient intakes in a group of self-reported milk allergy subjects. 52, 110A, 1993
The effect of pattern of nutrient supply during lamb growth on the digestive tract proportions 52, 188A, 1993
The interaction between plane of nutrition and response to growth hormone on fat and protein metabolism in cattle 52, 301A, 1993
A comparison of nutrient intakes and activity levels in female aerobics instructors and beginners 52, 308A, 1993
Nutrient intakes and breakfast cereal consumption habits of British schoolchildren 52, 322A, 1993
A comparison between the nutrient content of school lunches and recommendations 52, 326A, 1993
An initial assessment of food and nutrient intake for the development of a food frequency questionnaire for use in an Afrocaribbean population sample 52, 328A, 1993
- Nutrient utilization**
Nutritional supply of proteins and absorption of their hydrolysis products: consequences on metabolism 52, 335, 1993
- Nutrition education**
Aid programmes for malnutrition and the role of the nutritionist 52, 175, 1993
Persuasive power of nutritional messages enhanced by positive and non-technical language 52, 15A, 1993
The plate model for dietary education 52, 19A, 1993
The place of nutrition in the general practice consultation: a pilot study 52, 106A, 1993
Dietary knowledge and practice of nutritional supplement users. 52, 111A, 1993
Positive and negative message constructions in nutrition education 52, 357A, 1993
- Nutrition information**
Nutrition information 52, 263, 1993
- Nutrition supplementation**
Dietary knowledge and practice of nutritional supplement users. 52, 111A, 1993
- Nutritional composition**
Nutritional composition (by chemical analysis) of home-prepared weaning foods for infants 52, 384A, 1993
The nutrient contribution of weekday lunch in 7 to 8-year-old children 52, 385A, 1993
- Nutritional regulations**
Molecular aspects of enzyme synthesis in the exocrine pancreas with emphasis on development and nutritional regulation 52, 301, 1993

- Nutritional requirements of fish 52, 417A, 1993
- Nutritional status**
- Nutrition and the immune system 52, 77, 1993
- Nutrition and health in the developing world: the Caribbean experience 52, 183, 1993
- Nutrition and migration: people on the move 52, 265, 1993
- Micronutrient deficiencies in the preterm neonate 52, 285, 1993
- Dietary regulation of intestinal nutrient carriers 52, 315, 1993
- Interactions between nutrition and the intestinal microflora 52, 375, 1993
- Assessment of nutritional status of hospitalized general surgical patients in Ibadan, Nigeria 52, 46A, 1993
- Anthropometric measurements in elderly orthopaedic patients: 6-month follow-up of high- and low-nutritional risk groups 52, 108A, 1993
- The effect of nutritional status on interleukin-6 response to elective surgery 52, 232A, 1993
- Dietary compliance and changes in the nutritional status of chronic renal failure patients on conventional low-protein diet 52, 239A, 1993
- Nutritional assessment in patients on home parenteral nutrition; objective measurements or clinical judgement? 52, 243A, 1993
- Nutritional supplementation**
- The use of nutritional supplements in female high exercisers 52, 311A, 1993
- Nutritional surveillance**
- A conceptual approach to the determination of upper safe limits for the consumption of micronutrients 52, 59A, 1993
- Nutritive value**
- The nutritive value of different wheat varieties for poultry 52, 206A, 1993
- Oats**
- The adaptive response of the alimentary tract of the rat to soluble non-starch polysaccharide (NSP) components of oats 52, 124A, 1993
- Obesity**
- Effect of chronic energy deprivation on 24 h activity of lean and obese mice 52, 33A, 1993
- Glucagon-like peptide-1(7-36) amide and glucose-dependent insulinotropic polypeptide in the hyperinsulinaemia of obese hyperglycaemic (*ob/ob*) mice 52, 38A, 1993
- Hepatic drug-metabolizing enzymes in spontaneously obese hyperglycaemic (*ob/ob*) mice 52, 43A, 1993
- Energy cost of activity in normal weight and obese women 52, 279A, 1993
- The metabolic and cardiovascular responses to infused adrenaline in lean and obese subjects 52, 304A, 1993
- Evidence that fat oxidation is modulated by fat intake in lean but not in obese women 52, 310A, 1993
- Obesity as an adaptation to a high-fat diet: evidence from a cross-sectional study 52, 367A, 1993
- Hypocaloric treatment of obese type 2 diabetics 52, 369A, 1993
- The effect of two types of guar gum in solid and liquid foods on postprandial blood glucose, plasma insulin and C-peptide in obese subjects 52, 378A, 1993
- The prevalence of overweight and obesity in different fat and sugar consumption groups 52, 383A, 1993
- Obituary**
- Obituary notice, R. A. McCance (1898-1993) 52, 383, 1993
- Oesophageal pH**
- Change in oesophageal pH: what does it tell us about gastro-oesophageal reflux in preterm infants? 52, 220A, 1993
- Oleic acid**
- Esterification of oleic and arachidonic acids in mouse jejunum 52, 161A, 1993
- Olive oil**
- Modulation of the response of rats to endotoxin by butter, olive oil and corn oil 52, 68A, 1993
- Modulation of the response of rats to endotoxin by butter, olive oil and corn oil 52, 227A, 1993
- Modulatory effects of olive and maize oils and butter on the response of protein synthesis in liver, lung, kidney to endotoxin in rats 52, 336A, 1993
- Effects of endotoxin on metabolic responses of rats fed with olive and maize oils and butter 52, 340A, 1993
- Oral rehydration solutions**
- Variations in the formulation of commercially-available oral rehydration solutions intended for use in the treatment of diarrhoea 52, 379A, 1993
- Oxygen consumption**
- Oxygen consumption during the acute phase of burn injury in infants and children 52, 4A, 1993
- Pancreas**
- Molecular aspects of enzyme synthesis in the exocrine pancreas with emphasis on development and nutritional regulation 52, 301, 1993
- Pancreas enlargement induced in rats by long-term consumption of dietary legume proteins 52, 137A, 1993
- Antigen specificity and cross-reactivity of fifteen monoclonal antibodies against porcine pancreatic α -amylase II, and its AB and C domains 52, 143A, 1993
- Response of pancreatic lipase to graded levels of dietary tallow in the weaned piglet 52, 144A, 1993
- Pancreatic nutritional adaptation in calves: effect of pea flour incorporation in the milk substitute 52, 145A, 1993
- Kinetics of the adaptation of rat pancreatic hydrolases to a high-protein diet containing soya bean and fish 52, 167A, 1993

- Adaptation of the exocrine pancreas to high-protein diet in germ-free and conventional rats 52, 168A, 1993
- Pharmacological and biochemical evidence for differential expression of A- and B-subtype CCK-gastrin receptors in the calf pancreas during development 52, 169A, 1993
- Long-chain triacylglycerol malabsorption and pancreatic function in children with protein-energy malnutrition complicating severe liver disease 52, 252A, 1993
- Pancreatic disease**
- An acute-phase protein response is associated with increased resting energy expenditure in weight-losing patients with either benign or malignant pancreatic disease 52, 240A, 1993
- Parasite infestation**
- The impact of gastrointestinal parasites on protein-energy malnutrition in man 52, 101, 1993
- Interactions between parasites and animal nutrition: the veterinary consequences 52, 113, 1993
- Metabolic consequences of intestinal parasitism 52, 121, 1993
- The effect of subclinical parasitism with *Trichostrongylus colubriformis* on the diet selection of growing sheep 52, 353A, 1993
- Parenteral nutrition**
- Short-term parenteral feeding does not mitigate the decrease in albumin synthesis rates induced by interleukin-1 β or turpentine injection in the rat 52, 231A, 1993
- Nutritional assessment in patients on home parenteral nutrition; objective measurements or clinical judgement? 52, 243A, 1993
- Antimicrobial activity and long-term use of Taurolin as an additive to parenteral nutrition 52, 245A, 1993
- Pea flour**
- Effect of pea intake on bone protein synthesis and immunoreactive IGF 52, 139A, 1993
- Pancreatic nutritional adaptation in calves: effect of pea flour incorporation in the milk substitute 52, 145A, 1993
- Perimenopausal women**
- Dietary factors and vertebral bone density in perimenopausal women from a general medical practice in Northern Ireland 52, 44A, 1993
- Phenolic acids**
- Effects of phenolic acids on ruminal proteolytic bacteria 52, 179A, 1993
- Phenotype modulation**
- Phenotype modulation in butyrate-treated rat colon carcinoma cell lines 52, 157A, 1993
- Phospholipids**
- Fish oil supplementation changes membrane fluidity and phospholipid profiles in humans 52, 269A, 1993
- Physical activity**
- Energy cost of activity in normal weight and obese women 52, 279A, 1993
- Low carbohydrate oxidation during rest: a possible mediator of weight loss in the profoundly inactive? 52, 280A, 1993
- A comparison of nutrient intakes and activity levels in female aerobics instructors and beginners 52, 308A, 1993
- Low intensity exercise after consumption of a high-fat meal decreases postprandial lipaemia during the recovery period 52, 309A, 1993
- The use of nutritional supplements in female high exercisers 52, 311A, 1993
- Between- and within-subject variability in energy expenditure during physical activity 52, 312A, 1993
- The diet, physical activity patterns and anthropometry of a group of free-living elderly people 52, 344A, 1993
- Phytase**
- Phytase activity in wheat bran subjected to simulated gastric digestion 52, 57A, 1993
- The effect of microbial phytase on the performance of ducks given diets with high amounts of rice bran 52, 207A, 1993
- Plasma catecholamines**
- The relationship between changes in metabolic rate, haemodynamic variables and plasma catecholamine levels during acute starvation 52, 53A, 1993
- Plasma ubiquinone (Q₁₀)**
- Plasma ubiquinone (Q₁₀) concentrations in female vegetarians and omnivores 52, 332A, 1993
- Plate model**
- The plate model for dietary education 52, 19A, 1993
- Platelets**
- Effect of oral administration of an oil enriched in γ -linolenic acid in platelet aggregation and lipid composition in alcoholic patients during withdrawal 52, 196A, 1993
- Polyamine**
- Polyamine metabolism in enterocytes isolated from newborn pigs 52, 203A, 1993
- Polymer feeds**
- Effects of polymer feeds on ileal integrity as assessed by diamine oxidase release 52, 74A, 1993
- Polyunsaturated fatty acids**
- Phospholipid-2-9,12,15-linolenic acid in Gambian children with *Plasmodium falciparum* malaria 52, 10A, 1993
- Indices of lipid peroxidation in the heart of vitamin E-deficient pigs with or without supplementation with polyunsaturated fatty acids 52, 81A, 1993
- Postprandial metabolism**
- Modification of postprandial substrate balance by the addition of fat 52, 236A, 1993
- Influence of the intensity of prior exercise on postprandial lipaemia in man 52, 284A, 1993
- Effect of the addition of guar gum to an acute test meal on post-prandial lipaemia in healthy young adults 52, 288A, 1993

- Low intensity exercise after consumption of a high-fat meal decreases postprandial lipaemia during the recovery period 52, 309A, 1993
- The effect in rats of intestinal intraluminal lipid on postprandial activity determined by Doppler shift radar 52, 359A, 1993
- The effect of two Nigerian feeds containing non-starch polysaccharides on postprandial blood glucose and insulin levels in healthy subjects 52, 377A, 1993
- The effect of two types of guar gum in solid and liquid foods on postprandial blood glucose, plasma insulin and C-peptide in obese subjects 52, 378A, 1993
- Potassium**
- Effects of potassium depletion and repletion on growth and resting energy expenditure in the growing rat 52, 66A, 1993
- Potato starch**
- Factors influencing caecal butyrate in rats fed on raw potato starch 52, 376A, 1993
- Pregnancy**
- Chronic undernutrition in pregnancy and lactation 52, 19, 1993
- Risk factors for intra-uterine growth retardation in Campinas, Brazil 52, 65A, 1993
- The effect of pregnancy on folate catabolism in the rat 52, 85A, 1993
- Evidence of energy-sparing adaptations in Gambian women during pregnancy, assessed by whole-body calorimetry 52, 102A, 1993
- Normal pregnancy: a state of insulin resistance? Studies with the euglycaemic clamp 52, 215A, 1993
- Reduced head growth from the second trimester of pregnancy to age 2 years: implication for health in adulthood 52, 216A, 1993
- The recovery of labelled carbon dioxide in pregnant subjects 52, 247A, 1993
- In utero* exposure to maternal low-protein diets induces hypertension in rats 52, 274A, 1993
- Endogenous purine and pyrimidine derivative excretion in pregnant sows 52, 277A, 1993
- Unilateral intramammary infusion of GH does not support a local galactopoietic action of growth hormone in goats 52, 278A, 1993
- Modest *in utero* protein restriction modulates responses to endotoxin in seven week old rats fed standard chow 52, 291A, 1993
- Maternal manipulation of iodothyronine 5 α deiodinase activity in the ovine foetus 52, 300A, 1993
- Urea salvage and protein synthesis during pregnancy in normal English and Jamaican women 52, 302A, 1993
- Factors contributing to goitre in pregnant women in Bangladesh 52, 324A, 1993
- Premature infants**
- Is the antioxidant activity of premature baby plasma modulated by plasma ascorbic acid concentrations? 52, 313A, 1993
- Pressure sores**
- Vitamin C deficiency is associated with pressure sores in elderly patients with femoral neck fractures 52, 79A, 1993
- Prolactin**
- Response of secondary hair follicles of the Cashmere goat to prolactin *in vitro*. 52, 263A, 1993
- Propionate**
- Propionate presents effects similar to those of butyrate on HT29 cell growth and differentiation 52, 162A, 1993
- Protein deposition**
- Effects of overfeeding on protein-energy metabolism and body composition of high genetic potential boars 52, 297A, 1993
- Protein intake**
- Amino acid losses in ileostomy fluid on a protein-free diet 52, 147A, 1993
- Kinetics of the adaptation of rat pancreatic hydrolases to a high-protein diet containing soya bean and fish 52, 167A, 1993
- Adaptation of the exocrine pancreas to high-protein diet in germ-free and conventional rats 52, 168A, 1993
- Threonine dehydrogenase (*EC* 1.1.1.103) in growing pigs fed on threonine-deficient diets: effect of glutamic acid or protein addition 52, 171A, 1993
- Dietary compliance and changes in the nutritional status of chronic renal failure patients on conventional low-protein diet 52, 239A, 1993
- In utero* exposure to maternal low-protein diets induces hypertension in rats 52, 274A, 1993
- Modest *in utero* protein restriction modulates responses to endotoxin in seven week old rats fed standard chow 52, 291A, 1993
- Does dietary protein influence resting energy expenditure? 52, 305A, 1993
- Sulphur amino acids ameliorate lung inflammation in response to tumour necrosis factor α in rats fed low-protein diets 52, 339A, 1993
- Substitution of low-protein for high-protein feed by broiler chickens. 52, 355A, 1993
- Protein metabolism**
- Chronic malnutrition: protein metabolism 52, 1, 1993
- Metabolic consequences of intestinal parasitism 52, 121, 1993
- Nutritional supply of proteins and absorption of their hydrolysis products: consequences on metabolism 52, 335, 1993
- Differential effects of dietary proteins on protein synthesis activity in several tissues of newborn lambs 52, 131A, 1993
- Pancreas enlargement induced in rats by long-term consumption of dietary legume proteins 52, 137A, 1993
- Proteins from different cultivars and varieties of lupins resistant to *in vitro* rumen digestion 52, 180A, 1993
- The correction of metabolic acidosis in chronic renal failure reduces whole-body protein breakdown and amino acid oxidation 52, 257A, 1993

- Protein and energy metabolism during mild zinc deficiency in adult man 52, 361A, 1993
- Protein supplementation**
Effects of glycine and arginine supplementation on the metabolic response to tumour necrosis factor in rats fed low-protein diets 52, 90A, 1993
- Protein synthesis**
Differential effects of dietary proteins on protein synthesis activity in several tissues of newborn lambs 52, 131A, 1993
Adult and old rats retain sensitivity for stimulation of muscle protein synthesis by amino acid 52, 170A, 1993
In vivo protein synthesis in the developing ruminant stomach 52, 209A, 1993
Protein synthesis rates in individual tissues of critically-ill patients 52, 230A, 1993
Urea salvage and protein synthesis during pregnancy in normal English and Jamaican women 52, 302A, 1993
Modulatory effects of olive and maize oils and butter on the response of protein synthesis in liver, lung, kidney to endotoxin in rats 52, 336A, 1993
The influence of interleukin-6 (IL-6) and dietary lipids on total protein synthesis rates in cultured rat hepatocytes 52, 337A, 1993
- Protein turnover**
The non-invasive measurement of protein turnover in man: comparison of end product methods with [¹⁵N]glycine 52, 87A, 1993
Whole-body protein turnover and basal metabolism in chronic undernutrition 52, 89A, 1993
- Protein-energy malnutrition**
The impact of gastrointestinal parasites on protein-energy malnutrition in man 52, 101, 1993
Long-chain triacylglycerol malabsorption and pancreatic function in children with protein-energy malnutrition complicating severe liver disease 52, 252A, 1993
- Protozoa**
Simulation of the effects of diet on the contribution of rumen protozoa to degradation of fibre in the rumen 52, 175A, 1993
- Psyllium**
The effects of psyllium on blood lipids in hypercholesterolaemic subjects 52, 371A, 1993
- Purine**
Endogenous purine and pyrimidine derivative excretion in pregnant sows 52, 277A, 1993
- Pyrimidine**
Endogenous purine and pyrimidine derivative excretion in pregnant sows 52, 277A, 1993
- Pyruvate dehydrogenase (EC 1.2.4.1)**
The ontogenic development of the active form of hepatic pyruvate dehydrogenase (EC 1.2.4.1) during the sucking-weaning transition 52, 174A, 1993
- Quercetin**
The naturally-occurring dietary flavonoid quercetin: *in vitro* investigation of its effects on glycolytic flux 52, 95A, 1993
- Recommended intakes**
A conceptual approach to the determination of upper safe limits for the consumption of micronutrients 52, 59A, 1993
- Reduced-fat food**
Nutritional implications of reduced-fat (RF) food use in free-living consumers 52, 325A, 1993
- Renal failure**
How much energy should we prescribe for patients with chronic renal failure? 52, 242A, 1993
The correction of metabolic acidosis in chronic renal failure reduces whole-body protein breakdown and amino acid oxidation 52, 257A, 1993
- Respiration**
The influence of acetate and nutrient balance on ouabain-sensitive respiration in ovine liver 52, 56A, 1993
- Respiratory gas exchange**
Effects of colonic fermentation on respiratory gas exchanges following a glucose load in man 52, 155A, 1993
- Retinol**
Faecal losses of retinol and α -tocopherol in subjects with cystic fibrosis and healthy controls 52, 2A, 1993
Influence of illness on serum retinol of children in northern Ghana 52, 64A, 1993
Retinol administration in neonates: are we giving enough? 52, 222A, 1993
- Retinol pigment epithelial dystrophy**
Plasma vitamin E levels of dogs with retinal pigment epithelial dystrophy 52, 321A, 1993
- Riboflavin**
Effects of feeding a riboflavin-depleted diet on the morphometry of the small intestine of the weanling rat 52, 320A, 1993
Responses to riboflavin and multivitamin supplements by Gambian school children 52, 331A, 1993
- Rice**
The effect of microbial phytase on the performance of ducks given diets with high amounts of rice bran 52, 207A, 1993
- Rumen**
Interactions between parasites and animal nutrition: the veterinary consequences 52, 113, 1993
The use of ruminal indigestible neutral detergent fibre to study intradiurnal variation of digestion and outflow of rumen dry matter (RDM) in sheep fed *ad lib.* on lucerne hay 52, 149A, 1993
Distribution and post-prandial variations of the activity of polysaccharide-degrading enzymes in rumen micro-organisms 52, 151A, 1993
Ruminal fermentation of neutral detergent fibre and nitrogen in legume, grass and mixtures by growing steers 52, 158A, 1993

- Simulation of the effects of diet on the contribution of rumen protozoa to degradation of fibre in the rumen 52, 175A, 1993
- Ribosomal DNA-targeted hybridization probes for the detection, identification and quantitation of anaerobic rumen fungi 52, 176A, 1993
- Permanent rumen fistulas in the thoracic region in calves 52, 177A, 1993
- Effects of phenolic acids on ruminal proteolytic bacteria 52, 179A, 1993
- Proteins from different cultivars and varieties of lupins resistant to *in vitro* rumen digestion 52, 180A, 1993
- Rumen osmotic pressure, water flux and volatile fatty acid (VFA) absorption in sheep 52, 181A, 1993
- In vivo* protein synthesis in the developing ruminant stomach 52, 209A, 1993
- Rye**
- Cholesterol metabolism and crypt cell proliferation rates in rats in response to rye based diets 52, 373A, 1993
- Salseed meal**
- Use of chemical treatments to reduce antinutritional effects of tannins of salseed (*Shorea robusta*) meal in diets of broiler chickens 52, 138A, 1993
- Scald injury**
- Effects of clenbuterol on tissue mass after scald injury in the rat 52, 75A, 1993
- Schistosoma mansoni**
- The metabolism of amino acids in mice infected with *Schistosoma mansoni* 52, 7A, 1993
- School lunches**
- A comparison between the nutrient content of school lunches and recommendations 52, 326A, 1993
- The nutrient contribution of weekday lunch in 7 to 8-year-old children 52, 385A, 1993
- Sea-lettuce**
- Chemical characteristics of insoluble dietary fibre from sea-lettuce (*Ulva lactuca*) 52, 122A, 1993
- Season**
- The effect of season and leisure activity on the energy expenditure of adult males 52, 94A, 1993
- Selenium**
- Selenium and glutathione peroxidase status in preterm infants in a low Se area 52, 221A, 1993
- Contribution of selenium content of fish on dietary intake 52, 271A, 1993
- Serum lipids**
- Traditional dietary intakes and serum lipids in Singapore ethnic groups 52, 14A, 1993
- Sialo-glycoconjugates**
- Diversity of membrane sialo-glycoconjugates in the developing porcine small intestine 52, 195A, 1993
- Skeletal muscle**
- Postnatal growth of gut and muscle: competitors or collaborators 52, 57, 1993
- Cholesterol oxidation in porcine muscle as influenced by pig diet 52, 54A, 1993
- Stability of vitamin E-deficient muscle plasma membrane 52, 82A, 1993
- Calcium homeostasis during contractile activity of vitamin E-deficient skeletal muscle 52, 83A, 1993
- Adult and old rats retain sensitivity for stimulation of muscle protein synthesis by amino acid 52, 170A, 1993
- Energy restriction affects muscle fibre area and distribution selectively during growth 52, 298A, 1993
- Muscle thickness as an index of fat-free mass 52, 345A, 1993
- Skinfold thickness**
- Prediction of body density from skinfold thickness in elderly subjects: are the existing equations valid? 52, 346A, 1993
- Sleep**
- Low carbohydrate oxidation during rest: a possible mediator of weight loss in the profoundly inactive? 52, 280A, 1993
- Small intestine**
- High bacterial counts in the proximal small intestine: an unexpected finding in normal cats 52, 126A, 1993
- Effects of feeding a riboflavin-depleted diet on the morphometry of the small intestine of the weanling rat 52, 320A, 1993
- Smoking**
- Effect of vitamin C supplementation on the peroxyl radical trapping ability (TRAP) of plasma from female smokers 52, 80A, 1993
- Cigarette smoking and intake of antioxidant vitamins: a dose-type response effect 52, 113A, 1993
- Vitamin E and polyunsaturated fatty acid intake modulate the inflammatory response to cigarette smoke 52, 335A, 1993
- Relationship between antioxidant vitamins and tumour necrosis factor (TNF) in smokers and non-smokers 52, 338A, 1993
- Socio-economic group**
- Maternal diet and social class in the East End of London 52, 18A, 1993
- How effective is healthy eating advice for women from different socio-economic groups? 52, 20A, 1993
- Modest-but-adequate food budgets for five household types 52, 42A, 1993
- Sodium nitrate**
- The effect of consuming the sodium salts of two weak organic acids for 5 consecutive days on acid-base status in man 52, 266A, 1993
- Sodium tartrate**
- The effect of consuming the sodium salts of two weak organic acids for 5 consecutive days on acid-base status in man 52, 266A, 1993

Soft drink

Blood acid-base and urinary excretion during chronic ingestion of a drink with acute alkalinizing properties 52, 265A, 1993

Somatostatin

Manipulation of glucose utilization in multiple organ failure using somatostatin 52, 234A, 1993

Soya bean

Antigenic soya-bean protein digestion in the dairy calf at weaning 52, 136A, 1993

Soya-bean glycinin and β -conglycinin resistance to digestion in the pre-ruminant calf 52, 140A, 1993

Effect of soya-bean trypsin inhibitors in the diet on trypsin activities in pancreatic tissue and ileal digesta and trypsin inhibitor activity in small intestinal digesta of piglets 52, 141A, 1993

Kinetics of the adaptation of rat pancreatic hydrolases to a high-protein diet containing soya bean and fish 52, 167A, 1993

Small-intestinal absorption of minerals during enteral feeding supplemented with a soya-bean polysaccharide and soya-bean oligo-saccharide fibre 52, 241A, 1993

Calcium absorption from cow's milk and soya milks in young rats 52, 273A, 1993

Starch digestion

Starch hydrolysis in the rabbit intestine and effect on fibre degradation 52, 123A, 1993

Starvation

The relationship between changes in metabolic rate, haemodynamic variables and plasma catecholamine levels during acute starvation 52, 53A, 1993

The metabolic effects of acute hyperketonaemia on whole body and forearm glucose disposal 52, 281A, 1993

Steroid hormones

Preventing steroid-associated gastric perforation with histamine₂ antagonists 52, 219A, 1993

Steroid metabolism

Effect of baked beans on steroid metabolism of hypercholesterolaemic pigs 52, 164A, 1993

Faecal steroid excretion and relation to dietary intake in Indian and White vegetarians compared with white omnivores 52, 370A, 1993

Sucrose fatty esters

The effect of sucrose fatty esters on metabolism of human faecal bacteria 52, 160A, 1993

Sugar intake

Food sources of fat and sugar in the Northern Irish diet 52, 16A, 1993

The prevalence of overweight and obesity in different fat and sugar consumption groups 52, 383A, 1993

Surgery

Assessment of nutritional status of hospitalized general surgical patients in Ibadan, Nigeria 52, 46A, 1993

The effect of surgery and growth hormone

suppression on plasma muscle and glutamine levels 52, 70A, 1993

Permanent rumen fistulas in the thoracic region in calves 52, 177A, 1993

Histological consequences of different surgical procedures for ileorectostomy in pigs 52, 182A, 1993

The effect of nutritional status on interleukin-6 response to elective surgery 52, 232A, 1993

Utilization of intravenous fat in the surgical newborn infants 52, 237A, 1993

The effect of glucose intake on substrate utilization and energy expenditure in the surgical newborn infant 52, 238A, 1993

Estimation of the mass and distribution of body water in surgical patients by multiple-frequency bioelectrical impedance analysis 52, 248A, 1993

Systemic injury

The effect of enteral glutamine deprivation on rat gut mucosa during a systemic injury response 52, 259A, 1993

Tallow

Response of pancreatic lipase to graded levels of dietary tallow in the weaned piglet 52, 144A, 1993

Tannic acid

Effect of tannic acid on iron and zinc absorption from a model food system in sucking rats 52, 22A, 1993

Tannins

Use of chemical treatments to reduce antinutritional effects of tannins of salseed (*Shorea robusta*) meal in diets of broiler chickens 52, 138A, 1993

Tapeworm

D-Xylose absorption test for malabsorption in tapeworm-infected sheep 52, 142A, 1993

Taurine

Tracer investigation of taurine metabolism in cats 52, 129A, 1993

Taurolin

Antimicrobial activity and long-term use of Taurolin as an additive to parenteral nutrition 52, 245A, 1993

The Gambia

Responses to riboflavin and multivitamin supplements by Gambian school children 52, 331A, 1993

Changes in the diet of Mandinka women in The Gambia between 1978–79 and 1990–91: consequences for calcium intakes

52, 349A, 1993

The Sir David Cuthbertson Medal Lecture

The immunological and metabolic effects of L-arginine in human cancer 52, 387, 1993

Thermic effects

Effect of changes in environmental temperature on self-selection of ascorbic acid in coloured feeds by broiler chicks 52, 29A, 1993

Responses of chronically energy deficient tropical subjects to brief cold exposure 52, 92A, 1993

- Energy cost of activity in normal weight and obese women 52, 279A, 1993
- Threonine**
Threonine dehydrogenase (EC 1.1.1.103) in growing pigs fed on threonine-deficient diets: effect of glutamic acid or protein addition 52, 171A, 1993
- Thyroid function**
Effects of iodine and retinol supplementation on thyroid function in pre-school children in the Morogoro Region of Tanzania 52, 60A, 1993
- T-Lymphocytes**
Interleukin-2 and T-lymphocytes in mice fed on a legume diet 52, 135A, 1993
- α -Tocopherol**
Faecal losses of retinol and α -tocopherol in subjects with cystic fibrosis and healthy controls 52, 2A, 1993
- Total parenteral nutrition**
The effects of lipids on some aspects of the cellular immune response 52, 91, 1993
- Transit time**
The effect of dietary fibre on oro-caecal transit time in dogs 52, 201A, 1993
The potential value of *Bacillus stearothermophilus* spores as a gut transit time marker 52, 293A, 1993
- Trauma**
The immunological effects of trauma 52, 85, 1993
- Triacylglycerols**
Effects of triacylglycerol structure on postprandial chylomicron triacylglycerol clearance 52, 52A, 1993
The effect of triacylglycerols on lymphocyte proliferation 52, 55A, 1993
Long-chain triacylglycerol malabsorption and pancreatic function in children with protein-energy malnutrition complicating severe liver disease 52, 252A, 1993
Superior absorption of medium-chain triacylglycerols compared with conventional dietary long-chain fats in children with chronic liver disease 52, 253A, 1993
The effect of test meal fatty acid composition on postprandial triacylglycerol and lipoprotein lipase responses in normal subjects 52, 283A, 1993
- Trichostrongylus colubriformis***
The effect of subclinical parasitism with *Trichostrongylus colubriformis* on the diet selection of growing sheep 52, 353A, 1993
- Trypsin inhibitors**
Effect of soya-bean trypsin inhibitors in the diet on trypsin activities in pancreatic tissue and ileal digesta and trypsin inhibitor activity in small intestinal digesta of piglets 52, 141A, 1993
- Tryptophan**
The chronic and acute effects of tryptophan (TRP) on hormones of the enteroinsular axis 52, 130A, 1993
- Tumour necrosis factor α**
Effects of a 4-week dietary fat feeding trial on the metabolic responses to tumour necrosis factor α in rats 52, 67A, 1993
Increased TNF production does not correlate with cachexia in chronic inflammatory bowel disease 52, 71A, 1993
Effects of glycine and arginine supplementation on the metabolic response to tumour necrosis factor in rats fed low-protein diets 52, 90A, 1993
Infusion of the lithium salt of γ -linolenic acid into pancreatic cancer patients increases thymidine uptake and induces tumour necrosis factor release by peripheral blood mononuclear cells 52, 244A, 1993
Relationship between antioxidant vitamins and tumour necrosis factor (TNF) in smokers and non-smokers 52, 338A, 1993
Sulphur amino acids ameliorate lung inflammation in response to tumour necrosis factor α in rats fed low-protein diets 52, 339A, 1993
- Tyrosine**
Tyrosine metabolism in premature babies: effects of vitamin C intake 52, 78A, 1993
- Undernutrition**
Vitamin undernutrition 52, 143, 1993
Micronutrient undernutrition in British school-children 52, 155, 1993
The behavioural effects of undernutrition in confined farm animals 52, 219, 1993
Chronic undernutrition and metabolic adaptation 52, 267, 1993
Behaviour of stunted children and the relationship to development 52, 36A, 1993
Linoleic and α -linolenic acid oxidation during undernutrition: are they important in energy metabolism? 52, 47A, 1993
Whole-body protein turnover and basal metabolism in chronic undernutrition 52, 89A, 1993
Does chronic undernutrition in adult Masai influence morbidity and survival? 52, 107A, 1993
Factors associated with undernutrition in pre-school Tanzanian children 52, 109A, 1993
Undernutrition in drug addicts. Immunological study 52, 261A, 1993
- Urea kinetics**
Urea kinetics in healthy young women 52, 88A, 1993
Urea salvage and protein synthesis during pregnancy in normal English and Jamaican women 52, 302A, 1993
Urea kinetics in free-living female vegetarians measured with a single-dose method 52, 341A, 1993
- Validation study**
The non-invasive measurement of protein turnover in man: comparison of end product methods with [15 N]glycine 52, 87A, 1993
- Vegetable intake**
Fruit and vegetable consumption in north

- Glasgow: some results from the MONICA study of 1986 and 1989 52, 12A, 1993
- Vegetarians**
 A preliminary report on dietary intake and anthropometry of vegetarian children compared with omnivores 52, 13A, 1993
 Plasma ubiquinone (Q₁₀) concentrations in female vegetarians and omnivores 52, 332A, 1993
 Urea kinetics in free-living female vegetarians measured with a single-dose method 52, 341A, 1993
 Faecal steroid excretion and relation to dietary intake in Indian and White vegetarians compared with white omnivores 52, 370A, 1993
- Very low birth weight**
 Blood pressure fluctuations and cerebral outcome in very low birth weight (VLBW) babies 52, 226A, 1993
- Virginiamycin**
 Effect of Virginiamycin on the prececal apparent digestibility of the major nutrients comparing a diet with high and low prececal digestibility in pigs 52, 212A, 1993
- Vitamin A**
 The role of zinc and vitamin A deficiency in diarrhoeal syndromes in developing countries 52, 131, 1993
 Vitamin A levels in a sample of Irish animal livers 52, 58A, 1993
- Vitamin B₆**
 Lack of concordance between two biochemical indices of vitamin B₆ nutritional status 52, 315A, 1993
- Vitamin C**
 Tyrosine metabolism in premature babies: effects of vitamin C intake 52, 78A, 1993
 Vitamin C deficiency is associated with pressure sores in elderly patients with femoral neck fractures 52, 79A, 1993
 Effect of vitamin C supplementation on the peroxy radical trapping ability (TRAP) of plasma from female smokers 52, 80A, 1993
 Plasma vitamin C concentrations in critically ill patients 52, 314A, 1993
- Vitamin E**
 Indices of lipid peroxidation in the heart of vitamin E-deficient pigs with or without supplementation with polyunsaturated fatty acids 52, 81A, 1993
 Stability of vitamin E-deficient muscle plasma membrane 52, 82A, 1993
 Calcium homeostasis during contractile activity of vitamin E-deficient skeletal muscle 52, 83A, 1993
 Vitamin E status modulates the inflammatory response to endotoxin in rats 52, 84A, 1993
 Estimates of the vitamin E requirement in rats fed long-chain *n*-3 fatty acids 52, 319A, 1993
 Plasma vitamin E levels of dogs with retinal pigment epithelial dystrophy 52, 321A, 1993
 Vitamin E and polyunsaturated fatty acid intake modulate the inflammatory response to cigarette smoke 52, 335A, 1993
- Vitamin status**
 Vitamin undernutrition 52, 143, 1993
 Antioxidant vitamin status, lipid peroxidation, and indices of nitric oxide production in patients with sepsis and secondary organ dysfunction 52, 334A, 1993
- Volatile fatty acids**
 Rumen osmotic pressure, water flux and volatile fatty acid (VFA) absorption in sheep 52, 181A, 1993
- Water flux**
 Rumen osmotic pressure, water flux and volatile fatty acid (VFA) absorption in sheep 52, 181A, 1993
- Weaning**
 Influence of the weaning diet on the changes of glucose metabolism and of insulin sensitivity 52, 325, 1993
 Iron deficiency in Asian toddlers and the failure of progression of the weaning process 52, 103A, 1993
 Antigenic soya-bean protein digestion in the dairy calf at weaning 52, 136A, 1993
 Response of pancreatic lipase to graded levels of dietary tallow in the weaned piglet 52, 144A, 1993
 The ontogenic development of the active form of hepatic pyruvate dehydrogenase (EC 1.2.4.1) during the sucking-weaning transition 52, 174A, 1993
 Developmental changes in intestinal glycoprotein glycosylation; relationship with diet changes at weaning and hormonal variations 52, 189A, 1993
 Nutritional composition (by chemical analysis) of home-prepared weaning foods for infants 52, 384A, 1993
- Weight change**
 Causes of weight loss in Human Immunodeficiency Virus infection 52, 3A, 1993
 Raised metabolic demands for energy may contribute to weight loss in institutionalized psychogeriatric patients 52, 45A, 1993
 An acute-phase protein response is associated with increased resting energy expenditure in weight-losing patients with either benign or malignant pancreatic disease 52, 240A, 1993
 Patterns of weight change in stage IV HIV infection 52, 246A, 1993
 The changes in body weight and in body composition, estimated using bioelectrical impedance analysis over 72 h of fasting; comparison with estimates based on energy expenditure measured by indirect calorimetry 52, 251A, 1993
 Low carbohydrate oxidation during rest: a possible mediator of weight loss in the profoundly inactive? 52, 280A, 1993

Wheat

- The nutritive value of different wheat varieties for poultry 52, 206A, 1993
- Effect of wheat bushel weight and enzyme supplementation on the apparent metabolisable energy content of diets and on broiler performance 52, 360A, 1993

Whey proteins

- Analytical characterization by reverse-phase HPLC of products obtained by *in vitro* enzymic hydrolysis of whey proteins with gastric and pancreatic proteases 52, 148A, 1993

Work output

- The influence of dietary creatine supplementation on work output and metabolism during repeated bouts of maximal isokinetic cycling in man 52, 362A, 1993

Xenograft

- Programming of expression of disaccharidases in the neonatal small intestine: use of a xenograft model 52, 210A, 1993

D-Xylose

- D-Xylose absorption test for malabsorption in tapeworm-infected sheep 52, 142A, 1993

Zinc

- The role of zinc and vitamin A deficiency in diarrhoeal syndromes in developing countries 52, 131, 1993
- Effect of tannic acid on iron and zinc absorption from a model food system in sucking rats 52, 22A, 1993
- The effect of dietary fibres on iron and zinc absorption in sucking rats 52, 23A, 1993
- Assessment of exchangeable pools of zinc using the stable isotope ⁷⁰zinc 52, 24A, 1993
- Zinc supplementation in young Gambian children 52, 25A, 1993
- Protein and energy metabolism during mild zinc deficiency in adult man 52, 361A, 1993