Vol. 53 653

Index of Subjects

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

Acidosis	
Correction of acidosis in cl	hronic renal failure
improves insulin-mediated	d glucose utilization
but not insulin-mediated	changes in protein
degradation	53 , 36A, 1994
Acute-phase protein response	
Early endogenous mediators	of the response to
trauma	53 , 42A, 1994
Effect of protein malnutritie	on on food intake

protein distribution and acute-phase protein response in the rat

53, 43A, 1994

Weight loss, interleukin 6 secretion and alpha

2-macroglobulin response in experimental colitis 53, 57A, 1994

Adipose tissue

Differential effects of high-fat diets on adipose tissue deposition in the rat 53, 69A, 1994

Inhibition of adipose tissue lipolysis in vivo in man by ketone body infusion 53, 68A, 1994

Relationships between adipose tissue and plasma antioxidant nutrients in Scottish men

53, 146A, 1994

Adolescence

Longitudinal changes in the snack food choices of teenagers living in the West of Scotland

53, 100A, 1994

The influence of social privilege on food and nutrient intakes in adolescent females

53, 255A, 1994

Adrenaline

The effects of adrenaline on fatty acid turnover and oxidation in lean and obese subjects 53, 192A, 1994

Agaricus campestris

Evaluation of the antidiabetic effects of an edible mushroom (*Agaricus campestris*)

53, 125A, 1994

Amino acids

N-acetyl cysteine, glutamine and arginine may be essential to the ability of InmunoNutril® to enhance antioxidant defences in rats challenged with endotoxin

53, 45A, 1994

The effect of amino acids upon the pathways of

15NH₄Cl conversion to urea in isolated sheep hepatocytes

53, 197A, 1994

The effect of dietary glutamine on the structure of the gastrointestinal mucosa of rats undergoing an acute-phase response to tissue injury

53, 44A, 1994

The effect of excessive amounts of branchedchain amino acids on amino acid utilization in growing pigs 53, 108A, 1994 The effects of amino acids on iron and zinc dialysability in vitro 53, 22A, 1994

Ammonia-N

Incorporation of ¹⁵N-ammonia into urea and amino acids as influenced by fasting and feeding in man 53, 200A, 1994

Anaemia

A comparison of iron supplementation with dietary counselling in the prevention of iron deficiency anaemia during pregnancy

53, 154A, 1994

Animal products

Microbial hazards in animal products

53, 309, 1994

Animal welfare

Meat and right: the ethical dilemma

53, 263, 1994

Social aspects of meat eating

53, 271, 1994

Anorexia

Acute interleukin-1β administration induces anorexia and increases regional hypothalamic neuropeptide Y concentrations in the meal-fed rat 53, 178A, 1994

Anthropometry

Body composition estimation when height is unavailable 53, 102A, 1994

Antioxidants

Antioxidant activity of astaxanthin in chicken embryo fibroblasts 53, 139A, 1994
Antioxidants in diabetes 53, 204A, 1994
Can dietary micronutrients influence tissue antioxidant capacity? 53, 53, 1994

β-Carotene, are we misreading the signals in risk groups? Some analogies with vitamin C

53, 557, 1994

Carotenoids: functions and fallacies 53, 77, 1994 Cellular antioxidant defence systems in smokers compared with non-smokers: effect of vitamin E supplementation 53, 91A, 1994

Cholesterol supplementation and tissue antioxidant enzyme activities in male and female hamsters 53, 127A, 1994

Determinants of carotenoid antioxidant activity in model membranes 53, 194A, 1994

EC-FLAIR 'reference assays' for whole-blood glutathione peroxidase (GSH-Px) and erythrocyte superoxide dismutase (SOD): results of an inter-laboratory trial 53, 148A, 1994

Epidemiology and the role of antioxidants in preventing coronary heart disease: a brief overview 53, 59, 1994

Fibre and antioxidant vitamin intakes of women in relation to recommendations for dietary sugars 53, 21A, 1994

Micronutrients and oxidative stress in the aetiology of cancer 53, 67, 1994
New metabolic roles for selenium 53, 615, 1994

Plasma antioxidant nutrients in Belfast and Toulouse 53, 261A, 1994
Protective effects of β-carotene and astaxanthin

against oxidative stress in vitro 53, 16A, 1994 Relationships between adipose tissue and plasma antioxidant nutrients in Scottish men

53, 146A, 1994

Relationships between blood antioxidant enzyme activities and measures of oxygen consumption in children and adolescents 53, 19A, 1994

Supplies of antioxidant nutrients across western Europe are strongly and inversely related to heart disease (CHD) death rates

53, 136A, 1994

The correlation between intake of lutein, lycopene and β -carotene from vegetables and fruits and concentrations in blood plasma

53, 138A, 1994

The effect of acute starvation on tissue glutathione concentrations in the rat 53, 60A, 1994

The predictive value of plasma antioxidant activity at birth for morbidity and mortality of premature babies 53, 156A, 1994

Total antioxidant capacity and lipid peroxidation in newly diagnosed patients with non-insulin dependent (type II) diabetes. 53, 195A, 1994

UVA-light-induced oxidative stress: an investigation of potentially protective dietary constituents in an *in vitro* cell culture model system 53, 141A, 1994

Vitamin E and meat quality 53, 289, 1994 Vitamin E: molecular and biological function

53, 251, 1994

Appetite

Appetite and nutrition in relation to human immunodeficiency virus (HIV) infection and acquired immunodeficiency virus syndrome (AIDS) 53, 139, 1994

Regulation of nutrient supply: the brain and appetite control 53, 407, 1994

Arachis hypogaea

The effect of supplementation with groundnut (Arachis hypogaea) and/or milk on the viscosity and energy density of maize porridges as weaning foods in developing countries

53, 248A, 1994

Artificial sweeteners

Calibration of a food frequency questionnaire to estimate food intake in relation to artificial sweetener consumption 53, 231A, 1994

Basal metabolic rate

Basal metabolic rate and lean body mass in man 53, 31A, 1994

Bioavailability

An assessment of ultrafiltratable iron using a continuous flow *in vitro* method

53, 133A, 1994

Effect of dietary calcium on calcium absorption from a purified diet in the rat 53, 23A, 1994
Factors influencing the determination of folate in foods 53, 135A, 1994

Bio-electrical impedance

Use of a three-component model for evaluation of density and hydration of fat-free mass and validation of body composition predicted from the same whole-body bio-electrical impedance measurement, in lean and obese women

53, 66A, 1994

Biomarkers

Measuring nutritional exposures including biomarkers 53, 27, 1994

Blood pressure

Dietary lipids modulate systolic blood pressure in the rat 53, 169A, 1994

In utero exposure to maternal low protein diets induces hypertension in weanling rats, independently of maternal blood pressure changes 53, 171A, 1994

Body composition

Basal metabolic rate and lean body mass in man 53, 31A, 1994

Body composition estimation when height is unavailable 53, 102A, 1994

Body composition, resting energy expenditure and fitness in female professional and student contemporary dancers 53, 159A, 1994

Changes in body composition and basal metabolism in physically active elderly men: a longitudinal study 53, 95A, 1994

Changes in energy expenditure and body composition after severe head injury

53, 64A, 1994

Dual X-ray absorptiometry measurements of fat mass: comparison with direct analysis

53, 38A, 1994

Estimation of body composition in children using skinfold thickness: a cross-validation study

53, 161A, 1994

Measurement of gross body fat of rats using dual energy X-ray absorptiometry 53, 222A, 1994 Measuring the body composition of elderly subjects: a comparison of methods

Muscle wasting in multiple organ failure measured using ultrasound 53, 39A, 1994
Seasonal changes in body mass, body composition and food requirements in wild migratory

The right weight: body fat, menarche and fertility 53, 113, 1994

Uptake of α-tocopherol in porcine plasma, muscle and adipose tissue 53, 12A, 1994

Use of a three-component model for evaluation of density and hydration of fat-free mass and validation of body composition predicted from the same whole-body bio-electrical impedance measurement, in lean and obese women

53, 66A, 1994

53, 521, 1994

Body weight

birds

Qualitative research by focus group discussions to identify concerns about weight among adult females 53, 120A, 1994

Bone mineral density

Influence of diet on summertime bone mineral

density in healthy pre-menopausal women

53, 260A, 1994

Size-related artifacts may lead to spurious relationships between calcium intake and bone mineral density measured by absorptiometry 53, 211A, 1994

Brain stem

Selenoenzyme activity in the brain stem

53, 107A, 1994

Breakfast

A comparison of two techniques to find out whether 5 to 8-year-olds in deprived schools in Southampton skip breakfast 53, 252A, 1994

Acute effects of breakfasts of differing fat and carbohydrate content on morning mood and cognitive performance 53, 239A, 1994

Breakfast trends emerging from the Irish National Nutrition Survey 53, 3A, 1994

The contribution of breakfast to daily micronutrient intakes of adults in Great Britain

53, 251A, 1994

The effect of fortification on daily micronutrient intakes of breakfast cereal consumers in Great Britain 53, 143A, 1994

Brown adipose tissue

Ontogenic changes in peri-renal brown adipose tissue of newborn lambs 53, 212A, 1994

Calcium

Calcium requirements of lactating women: effect of a calcium supplement on the breast-milk calcium concentration of rural Gambian women 53, 258A, 1994

Dietary sources of calcium and the contribution of flour fortification to total calcium intake

53, 259A, 1994

Effect of dietary calcium on calcium absorption from a purified diet in the rat 53, 23A, 1994
Sing related partificate many lead to appring a

Size-related artifacts may lead to spurious relationships between calcium intake and bone mineral density measured by absorptiometry 53, 211A, 1994

The effect of dietary fibres and phytate on calcium absorption in the rat 53, 126A, 1994

Calprotectin

Calprotectin in cystic fibrosis: a sensitive marker of the acute-phase response to infection

53, 185A, 1994

Zinc-reversible candidastatic activity of leucocyte protein, calprotectin 53, 247A, 1994

Cancer

Dietary fat and risk of breast and colon cancer 53, 25, 1994
Micronutrients and cancer aetiology: the epi-

demiological evidence 53, 605, 1994
Micronutrients and oxidative stress in the aetiology of cancer 53, 67, 1994

Carbohydrate metabolism

Energy expenditure and substrate metabolism after carbohydrate ingestion in relation to fetal growth in women born in Preston

53, 174A, 1994

Nuclear magnetic resonance spectroscopy as a tool to study carbohydrate metabolism

53, 335, 1994

Carcass composition

Determination of the effect of dietary polyunsaturated fatty acid on the content of the triacylglycerol molecular species in pig backfat 53, 114A, 1994

B-Carotene

β-Carotene, are we misreading the signals in risk groups? Some analogies with vitamin C

53, 557, 1994

DNA damage in cultured human T-lymphocytic cells as detected by the 'comet assay': effect of increased cellular β-carotene and α-tocopherol 53, 140A, 1994

Protective effects of β -carotene and astaxanthin against oxidative stress in vitro 53, 16A, 1994

Carotenoids

Carotenoids: functions and fallacies 53, 77, 1994 Effect of lutein on oxidation of low-density lipoproteins (LDL) in vitro 53, 18A, 1994

The correlation between intake of lutein, lycopene and β -carotene from vegetables and fruits and concentrations in blood plasma

53, 138A, 1994

Catalase activity

Effects of feeding high-fat diets and subsequent starvation on catalase (EC 1.11.1.6) activity in rat muscle 53, 20A, 1994

Catecholamines

Dietary effects on tyrosine availability and catecholamine synthesis in the central nervous system: possible relevance to the control of protein intake 53, 419, 1994

Catheter-related morbidity

Catheter-related morbidity in patients on home parenteral nutrition 53, 54A, 1994

Cation pumps

Cation pumps in skeletal muscle undergo dramatic up-regulation in the perinatal period 53, 246A, 1994

Central nervous system

Dietary effects on tyrosine availability and catecholamine synthesis in the central nervous system: possible relevance to the control of protein intake 53, 419, 1994

Cerebral metabolism

Nutrient and toxin interactions in neurodegenerative disease 53, 431, 1994
Nutrition of the brain: macronutrient supply

53, 401, 1994

Regulation of nutrient supply: the brain and appetite control 53, 407, 1994

The effect of prolonged exercise on selected brain monoamine concentrations in the rat

53, 83A, 1994

¹³C excretion

Excretion of ¹³C within stool and breath following oral and intravenous administration of ¹³C-labelled sodium bicarbonate

53, 225A, 1994

Chemotherapy

The effect of the first course of chemotherapy on dietary intake and urinary urea nitrogen in acute myeloid leukaemia **53**, 50A, 1994

Chicken embryo fibroblasts

Antioxidant activity of astaxanthin in chicken embryo fibroblasts 53, 139A, 1994

Childhood

Children with a high milk consumption are more likely to have micronutrient intakes which meet reference nutrient intakes

53, 142A, 1994

Children's perception of their body size and some reasons for their snackfood choices

53, 122A, 1994

Determination of energy intake in 7-10 year old children: use of food record and interview technique 53, 254A, 1994

Energy balance and physical activity in primary school children 53, 2A, 1994

Energy expenditure and physical activity in relation to fitness in children **53**, 207, 1994

Estimation of body composition in children using skinfold thickness: a cross-validation study

53, 161A, 1994 Few differences in mean daily intake associated with a high intake of snacks in school children **53**, 253A, 1994

Long-term follow-up of coeliac disease in children 53, 116A, 1994

Mothers' perceptions food for their of children 53, 238A, 1994

Perception of food allergy in children aged under 53, 9A, 1994 4 years

Physical activity, undernutrition and child devel-**53**, 241, 1994

Relationships between blood antioxidant enzyme activities and measures of oxygen consumption in children and adolescents 53, 19A, 1994

Cholesterol

Cholesterol supplementation and tissue antioxidant enzyme activities in male and female 53, 127A, 1994 hamsters

Dietary cholesterol may modify the modulatory effects of dietary fats on the metabolic responses to endotoxin in rats 53, 168A, 1994 Effects of dietary orotic acid on the blood chol-

esterol content and profile of rats 53, 24A, 1994

Effects of dietary voghurt on cholesterol synthesis and sterol excretion in rats **53**, 25A, 1994

Cholesterol metabolism

Modulatory effects of butter and maize oil on the response of cholesterol metabolism in liver and serum to endotoxin in rats 53, 179A, 1994

Chronic disease

Development of food aversions during illness

53, 131, 1994

Interleukin-1. interleukin-1 receptor, interleukin-1 receptor antagonist

53, 393, 1994 Newer aspects of micronutrients in chronic

disease: copper 53, 583, 1994 Newer aspects of micronutrients in chronic disease: vitamin E **53**, 571, 1994

Nutritional implications of a meatless diet

53, 297, 1994 Stability of fat-soluble vitamins in whole blood 53, 147A, 1994

Vitamin E: molecular and biological function

53, 251, 1994

Chronic renal failure

Correction of acidosis in chronic renal failure improves insulin-mediated glucose utilization but not insulin-mediated changes in protein degradation 53, 36A, 1994

Clenbuterol

The effect of a beta-agonist (clenbuterol) on heat production of beef heifers 53, 10A, 1994

Clinical nutrition

Access methods in nutritional support

53, 465, 1994 Clinical problems of a short bowel and their 53, 373, 1994 treatment

Development of food aversions during illness

53, 131, 1994

Linking the field to the laboratory in nutrition research 53, 43, 1994

Nutrition of the brain: macronutrient supply

53. 401. 1994

The application of nutritional science to clinical 53, 1, 1994

Coagulation factor VII

Increased factor VII coagulant activity following the consumption of a high-fat meal in healthy 53, 79A, 1994

Postprandial triacylglycerol concentration and coagulation factor VII activity 53, 26A, 1994

Coeliac disease

Dietary compliance in adults with coeliac disease 53, 117A, 1994 Long-term follow-up of coeliac disease in children 53, 116A, 1994

Cognitive perfomance

Acute effects of breakfasts of differing fat and carbohydrate content on morning mood and cognitive performance 53, 239A, 1994

Does short-term food deprivation affect cognitive function? 53, 240A, 1994

Influence of early diet in full-term babies on their subsequent cognitive performance during ado-53, 177A, 1994 lescence

Nutrition and mental performance 53, 443, 1994 Cold exposure

Lipoprotein lipase and insulin-sensitive glucose transporter (GLUT4) gene expression in tissues of lean and obese (ob/ob) mice exposed acutely to cold 53, 90A, 1994

Continuous feeding

Thermic effect of continuous feeding in young and elderly healthy adults **53**, 217A, 1994

Convalescence

Low muscle glutamine in the critically-ill patient is poorly repleted by intravenous glutamine of 5 d duration 53, 61A, 1994

Copper

Effect of copper and/or vitamin E deficiency on DNA damage in heart and aorta cells of hamsters fed on fish oil or maize oil

53, 15A, 1994

Effect of copper deficiency on cytokine activities in mice 53, 131A, 1994

Newer aspects of micronutrients in chronic

Newer aspects of micronutrients in chronic disease: copper 53, 583, 1994

The effects of copper deficiency in male Syrian hamsters fed on diets containing either maize or fish oil 53, 210A, 1994

Coprophagy

Role of coprophagy in the utilization of microbial lysine by rats 53, 109A, 1994

Coronary heart disease

Epidemiology and the role of antioxidants in preventing coronary heart disease: a brief overview 53, 59, 1994

Plasma antioxidant nutrients in Belfast and Toulouse 53, 261A, 1994

Supplies of antioxidant nutrients across western Europe are strongly and inversely related to heart disease (CHD) death rates

53, 136A, 1994

Who complies with dietary recommendations for the prevention of CHD and what do they eat? Findings from the Dietary and Nutritional Survey of British Adults 53, 236A, 1994

Creatine

The influence of oral creatine supplement on metabolism during sub-maximal incremental treadmill exercise 53, 84A, 1994

Critical illness

Accuracy and precision of techniques used for measuring height in critical illness

53, 67A, 1994

Crypt-cell proliferation

Increasing luminal viscosity stimulates crypt-cell proliferation throughout the gut

53, 226A, 1994

Cystic fibrosis

Calprotectin in cystic fibrosis: a sensitive marker of the acute-phase response to infection

53, 185A, 1994

Plasma retinol, α-tocopherol and carotenoids in the cystic fibrosis population at Cork Regional Hospital 53, 137A, 1994

Cytokines

Cytokine changes in the postoperative period 53, 159, 1994

Effect of copper deficiency on cytokine activities in mice 53, 131A, 1994

Interleukin-1, interleukin-1 receptor, and interleukin-1 receptor antagonist

53, 393, 1994

The effect of low dose fish-oil supplementation on cytokines and leucocyte function in healthy female volunteers 53, 152A, 1994

Diabetes

Antioxidants in diabetes 53, 204A, 1994

Evaluation of the antidiabetic effects of an edible mushroom (Agaricus campestris)

53, 125A, 1994
Total antioxidant capacity and lipid peroxidation in newly diagnosed patients with non-insulin dependent (type II) diabetes.
53, 195A, 1994

Diet composition

Effects of diet composition on 24 h energy expenditure during energy restriction

53, 218A, 1994

Diet selection

Selection of dietary tryptophan concentration by growing pigs 53, 199A, 1994

Dietary advice

An approach to the formulation of healthy eating advice 53, 8A, 1994

Dietary behaviour

Children's perception of their body size and some reasons for their snackfood choices

53, 122A, 1994

Dietary changes in a nationally-representative sample of Irish adults 53, 7A, 1994

Established behaviour influences public perception of nutrition education messages

53, 241A, 1994

Qualitative research by focus group discussions to identify concerns about weight among adult females 53, 120A, 1994

Regulation of nutrient supply: the brain and appetite control 53, 407, 1994

Social aspects of meat eating 53, 271, 1994

Type A behaviour and diet 53, 6A, 1994
Type of message construction affects public perception 53, 242A, 1994

Dietary compliance

Dietary compliance in adults with coeliac disease 53, 117A, 1994

Dietary fat

Dietary fat and risk of breast and colon cancer 53, 25, 1994

Dietary fat:carbohydrate ratio

The effect of meals of varying fat and carbohydrate content on an electrophysiological measurement of sleepiness 53, 237A, 1994

The postprandial response to high-fat, lowcarbohydrate and low-fat, high-carbohydrate meals providing the same amounts of energy in subjects at risk of heart disease

53, 221A, 1994

Dietary fibre

The effect of dietary fibres and phytate on calcium absorption in the rat 53, 126A, 1994

Dietary intake

An evaluation of a method for comparison of 'healthiness' of menus in work-place restaurants 53, 121A, 1994

An investigation of eating patterns in non-ulcer dyspepsia 53, 29A, 1994

Dietary intake and nutrition concerns in Duchenne muscular dystrophy 53, 30A, 1994 Dietary intakes of female lone parents in London: energy and micronutrients

53, 97A, 1994

Influence of diet on summertime bone mineral density in healthy pre-menopausal women

53, 260A, 1994

Plasma selenium concentration of the Scottish population in decline 53, 262A, 1994

Surviving in Sarajevo: winter nutrition monitoring 1993-1994 **53**, 266A, 1994

The effect of very-low-, moderate- and high-fat snacks on postprandial reverse cholesterol transport in healthy volunteers

53, 124A, 1994 The effects of altered food frequency consump-

tion on plasma lipids in free-living healthy volunteers 53, 27A, 1994

Dietary lipid

Dietary lipid manipulation influences phospholipid class distribution in the rat hepatocyte plasma membrane **53**, 189A, 1994

Dietary survey

A comparison of two techniques to find out whether 5 to 8-year-olds in deprived schools in Southampton skip breakfast **53**, 252A, 1994

Breakfast trends emerging from the Irish National Nutrition Survey 53, 3A, 1994

Collection of food intakes, food composition and food portion sizes in Central Cameroon, West Africa, to develop a food frequency questionnaire in rural and urban population samples, as part of an International comparative study 53, 234A, 1994

Determination of energy intake in 7-10 year old children: use of food record and interview 53, 254A, 1994 technique

Dietary changes in a nationally-representative sample of Irish adults 53, 7A, 1994

Dietary fat: grams or percentage of energy? Analysis of the Dietary and Nutritional Survey of British Adults and the Leeds High Fat 53, 232A, 1994

EC-FLAIR 'reference assays' for whole-blood glutathione peroxidase (GSH-Px) and erythrocyte superoxide dismutase (SOD): results of an inter-laboratory trial 53, 148A, 1994

Who are the 'low energy reporters' in the Dietary and Nutritional Survey of British Adults?

53, 235A, 1994

Who complies with dietary recommendations for the prevention of CHD and what do they eat? Findings from the Dietary and Nutritional Survey of British Adults **53**, 236A, 1994

Digestibility

Amylase-rich flour improves the digestibility of cereal-based weaning foods 53, 92A, 1994

Digoxigenin

A simplified approach to measuring mRNA on Northern blots using chemiluminescencebased detection with digoxigenin end-labelled oligonucleotides **53,** 112A, 1994

Domestic animals

Differences between cats and dogs: a nutritional view 53, 15, 1994

Draught animals

Nutritional implications of work in draught animals 53, 169, 1994

Dual energy X-ray absorptiometry

Dual X-ray absorptiometry measurements of fat mass: comparison with direct analysis

Measurement of gross body fat of rats using dual energy X-ray absorptiometry 53, 222A, 1994

Duchenne muscular dystrophy

Dietary intake and nutrition concerns in Duchenne muscular dystrophy 53, 30A, 1994

Elderly

Changes in body composition and basal metabolism in physically active elderly men: a longitudinal study 53, 95A, 1994

Double-blind pilot trial, in elderly women with fractured femur, of ornithine α-ketoglutarate v. a defined formula peptide oral supplement **53**, 203A, 1994

Energy intake in hospitalized elderly patients

53, 74A, 1994

Hormonal effects of lignins in a group of men 53, 230A, 1994

Measuring the body composition of elderly subjects: a comparison of methods

53, 103A, 1994

Postprandial protein utilization in the elderly 53, 202A, 1994

Elemental diet

The effect of an elemental diet on stool output in irritable bowel syndrome 53, 223A, 1994

Endotoxin

Dietary cholesterol may modify the modulatory effects of dietary fats on the metabolic responses to endotoxin in rats 53, 168A, 1994 Effects on endotoxin on liver plasma membrane phospholipid class distribution in rats fed on

maize and olive oils and butter

53, 181A, 1994 Endotoxin-induced production of interleukin-6 (IL-6) is enhanced by vitamin E deficiency and reduced by dietary polyphenols

53, 183A, 1994

Modulatory effects of butter and maize oil on the response of cholesterol metabolism in liver and serum to endotoxin in rats 53, 179A, 1994

Prenatal nutritional adequacy and gender influence the ability of adult rats to produce interleukins 1 and 6 and tumour necrosis factor \alpha 53, 182A, 1994

Endurance training

Influence of short-term cessation of endurance training on postprandial lipaemia in man

53, 220A, 1994

Energy balance

Nutritional aspects of endurance exercise in humans **53,** 181, 1994

Energy expenditure

A comparison of estimated v. measured energy expenditure in the obese **53.** 75A. 1994 A new tracer method (the labelled bicarbonateurea method) for estimating energy expenditure in man 53, 41A, 1994

Body composition, resting energy expenditure and fitness in female professional and student contemporary dancers 53, 159A, 1994

Changes in energy expenditure and body composition after severe head injury

53, 64A, 1994

Effects of diet composition on 24 h energy expenditure during energy restriction

53, 218A, 1994

Energy expenditure and physical activity in relation to fitness in children 53, 207, 1994
Energy expenditure and substrate metabolism

Energy expenditure and substrate metabolism after carbohydrate ingestion in relation to fetal growth in women born in Preston

53, 174A, 1994

Nutritional implications of work in draught animals 53, 169, 1994

The effects of potassium exclusion on resting energy expenditure and kidney protein synthesis in young rats

53, 198A, 1994

Total energy expenditure and energy intake in Human Immunodeficiency Virus infected men 53, 63A, 1994

Validation of an activity questionnaire to assess total energy expenditure in Human Immunodeficiency Virus infection

53, 65A, 1994

Energy intake

Energy intake in hospitalized elderly patients **53**, 74A, 1994

Energy intake in the follicular and luteal phases of the menstrual cycle in Mexican women

53, 216A, 1994

Meal composition and postprandial mood and alertness: the influence of the fat and energy content of meals ingested mid-morning and at lunch time 53, 76A, 1994

The effect of dietary energy density on energy intake, weight gain and change in subcutaneous fat depots in 7-month-old infants

53, 162A, 1994

Enteral nutrition

GIP and GLP-1(7-36)amide secretion in response to intraduodenal nutrient infusions in pigs 53, 228A, 1994

Epidemiology

An approach to the formulation of healthy eating advice 53, 8A, 1994

Micronutrients and cancer aetiology: the epidemiological evidence 53, 605, 1994

Should nutrient variables be transformed before epidemiological analyses? 53, 32A, 1994

Exercise

Diet and exercise performance in the horse

53, 189, 1994

Nutritional aspects of endurance exercise in humans 53, 181, 1994

The effect of prolonged exercise on selected brain monoamine concentrations in the rat

53, 181, 1994

Fig. 1834. 1994

The effects of exercise on postprandial lipaemia: apoliproprotein B-48 and retinyl palmitate as markers of chylomicron particles

53, 163A, 1994

The influence of oral creatine supplement on metabolism during sub-maximal incremental treadmill exercise 53, 84A, 1994

Fat digestion

The intra- and inter-individual variability in the gastrointestinal handling of [1-13C]palmitic acid in healthy adults 53, 166A, 1994

Fat intake

Dietary fat: grams or percentage of energy?
Analysis of the Dietary and Nutritional Survey
of British Adults and the Leeds High Fat
Study
53, 232A, 1994

Dietary lipid manipulation alters lymphocyte phospholipid fatty acid composition but not membrane fluidity 53, 70A, 1994

Dietary lipids modulate systolic blood pressure in the rat 53, 169A, 1994

Differential effects of high-fat diets on adipose tissue deposition in the rat 53, 69A, 1994

Effects of feeding high-fat diets and subsequent starvation on catalase (EC 1.11.1.6) activity in rat muscle 53, 20A, 1994

Increased factor VII coagulant activity following the consumption of a high-fat meal in healthy subjects 53, 79A, 1994

Meal composition and postprandial mood and alertness: the influence of the fat and energy content of meals ingested mid-morning and at lunch time 53, 76A, 1994

Meal fat content and postprandial lipaemia: apo B48 and retinyl palmitate as markers of chylomicron particles 53, 82A, 1994

The effects of copper deficiency in male Syrian hamsters fed on diets containing either maize or fish oil 53, 210A, 1994

Fatty acids

Colonic secretion induced by enteral feeding in man is reversed by short-chain fatty acids 53, 49A, 1994

Determination of the effect of dietary polyunsaturated fatty acid on the content of the triacylglycerol molecular species in pig backfat 53, 114A, 1994

Dietary lipid manipulation alters lymphocyte phospholipid fatty acid composition but not membrane fluidity 53, 70A, 1994

Effect of monounsaturated fatty-acid-enriched test meals on plasma insulin and GIP concentrations 53, 167A, 1994

Eicosapentaenoic acid inhibits the expression of major histocompatibility complex (MHC) class II molecules and adhesion molecules on human monocytes *in vitro* 53, 153A, 1994

Fatty acids modulate the affinity of tumour necrosis factor-α (TNFα) receptors in cultured rat hepatocytes 53, 180A, 1994

Increased postprandial lipaemia with a diet rich in oleic acid is decreased by n-3 fatty acids in healthy young men 53, 151A, 1994

Influence of dietary long-chain n-3 fatty acids on susceptibility to oxidation of low-density lipoprotein in man 53, 78A, 1994

Influence of dietary long-chain n-3 fatty acids with and without additional vitamin E on aortic fatty streak formation 53, 150A, 1994

Is monounsaturated fatty acid rich butter beneficial in the treatment of hyperlipidaemia? 53, 28A, 1994

The effect of dietary fatty acids on lipoprotein composition in the rat 53, 188A, 1994

The effect of dietary lipid manipulation on lymphocyte cell surface molecule expression

53, 186A, 1994

The effect of dietary lipid manipulation on leucocyte proliferation in rat whole blood

53, 187A, 1994
The effect of fatty acids on the inflammatory response to cytokines by cultured rat hepatocytes
53, 184A, 1994

Feed composition

Feeding trial, composition, oxidative stability and sensory evaluation of cultured turbot fed three commercial feeds 53, 128A, 1994

Feed intake

Variation in probable individual feed intake of lactating cows at grass given calcined magnesite-containing feed as either nuts or cobs 53, 110A, 1994

Fermentation

Comparison of adult and neonatal fementation of simple and complex carbohydrate

53, 93A, 1994 Digestion in potoroine marsupials: forestomach

fermenters or metabolic generalists?

53, 94A, 1994

Fertility

The right weight: body fat, menarche and fertility 53, 113, 1994

Fish oil

Dietary fish-oil supplementation inhibits the expression of major histocompatibility complex (MHC) class II molecules and adhesion molecules on human monocytes

53, 130A, 1994

Effect of low-dose fish-oil supplementation with or without added vitamin E on plasma vitamins 53, 207A, 1994

Gastrointestinal flora do not contribute to increased ethane production on feeding fish oils 53, 80A, 1994

The effect of low dose fish-oil supplementation on cytokines and leucocyte function in healthy female volunteers 53, 152A, 1994

Flavour formation

The role of nutrients in meat flavour formation 53, 327, 1994

Folate

The role of folate in the prevention of neural-tube defects 53, 631, 1994

Folate metabolism

Factors influencing the determination of folate in foods 53, 135A, 1994

Folic acid

The exclusion of folic-acid-fortified foods significantly reduces folate status 53, 265A, 1994

Food allergy

Perception of food allergy in children aged under 4 years 53, 9A, 1994

Food atlas

Development and evaluation of a computerbased food atlas for portion size estimation 53, 129A, 1994

Food aversions

Development of food aversions during illness 53, 131, 1994

Food deprivation

Does short-term food deprivation affect cognitive function? 53, 240A, 1994

Food frequency questionnaire

A quantitative food frequency questionnaire for the assessment of dietary iron intake in Irish adolescents 53, 34A, 1994

Calibration of a food frequency questionnaire to estimate food intake in relation to artificial sweetener consumption 53, 231A, 1994

Collection of food intakes, food composition and food portion sizes in Central Cameroon, West Africa, to develop a food frequency questionnaire in rural and urban population samples, as part of an International comparative study

53, 234A, 1994

Food intake

Cytokine changes in the postoperative period 53, 159, 1994

Does disorder of gastrointestinal motility affect food intake in the post-surgical patient?

53, 151, 1994

Gastric volumes and regurgitation of feed during enteral tube-feeding in severe head injury

53, 52A, 1994

Nutrition and mental performance 53, 443, 1994
Photoperiod and the regulation of annual and circannual cycles of food intake 53, 495, 1994
Who are the 'low energy reporters' in the Dietary and Nutritional Survey of British Adults?

53, 235A, 1994

Food photographs

Estimation of food portion size using household measures and food photographs: a comparison 53, 233A, 1994

Food portions

Estimation of food portion size using household measures and food photographs: a comparison 53, 233A, 1994

Fortified flour

Dietary sources of calcium and the contribution of flour fortification to total calcium intake

53, 259A, 1994

Fruit intake

Fruit and vegetable consumption of 10-11 year old children in Tayside 53, 96A, 1994
Fruit and vegetable intake in the West of Scotland 53, 99A, 1994

Gastrointestinal tract

Clinical problems of a short bowel and their treatment **53**, 373, 1994 Colonic secretion induced by enteral feeding in

man is reversed by short-chain fatty acids

53, 49A, 1994

Does disorder of gastrointestinal motility affect food intake in the post-surgical patient?

53, 151, 1994

Paediatric referrals for combined small bowel and liver transplantation: timing and indications; Room for Improvement? 53, 48A, 1994

The effect of dietary glutamine on the structure of the gastrointestinal mucosa of rats undergoing an acute-phase response to tissue injury

53, 44A, 1994

General practitioners

A survey of nutrition interest among general 53, 119A, 1994 practitioners

Gluconeogenesis

The effect of acute insulin administration on post-prandial glycogen and lipid synthesis in the rat **53,** 58A, 1994

Glucose tolerance

Glucose tolerance in rats exposed to maternal low-protein diets in utero **53**, 173A, 1994

Glutamine

Low muscle glutamine in the critically-ill patient is poorly repleted by intravenous glutamine of 5 d duration 53, 61A, 1994

Growth

Chronological change in serum insulin-like growth factor 1 concentrations and the relationship to growth in unweaned male, castrate male and female lambs sired by Texel or Suffolk ram 53, 11A, 1994

Guar gum

Guar-gum reduces feeding Lactobacillus fermentum adherence to enterocytes

53, 227A, 1994

Gut hormones

GIP and GLP-1(7-36)amide secretion in response to intraduodenal nutrient infusions in pigs

53, 228A, 1994

Gut microflora

Gastrointestinal flora do not contribute to increased ethane production on feeding fish **53**, 80A, 1994

Habitual diet

The effect of the addition of raw potato starch to habitual diet on stool output 53, 224A, 1994

Haematological status

Assessment of haematological status in early **53,** 4A, 1994 pregnancy

Head injury Gastric volumes and regurgitation of feed during

enteral tube-feeding in severe head injury 53, 52A, 1994

Heat exposure

The effect of heat exposure on sodium balance at three levels of dietary sodium intake

53, 244A, 1994

Accuracy and precision of techniques used for measuring height in critical illness

53, 67A, 1994

A comparison of two types of peripheral feeding line and of the effect of heparin on line occlusion 53, 51A, 1994

Hepatocytes

The effect of amino acids upon the pathways of ¹⁵NH₄Cl conversion to urea in isolated sheep hepatocytes **53**, 197A, 1994

High-performance liquid chromatography

High-performance liquid chromatographic determination of plasma pyridoxal- 5-phosphate by use of the cyanide derivative 53, 134A, 1994

Hyperinsulinaemia

Recovery of ¹³C in breath from infused NaH¹³CO₃ increases during euglycaemic hyperinsulinaemia due to a time-dependent 53, 40A, 1994

Hyperlipidaemia

Is monounsaturated fatty acid rich butter beneficial in the treatment of hyperlipidaemia? 53, 28A, 1994

Hypertension

Anthropometry, nutritional knowledge, and nutrient intakes in a group of Irish adults with essential hypertension 53, 123A, 1994

Role of the renin-angiotensin system in the maintenance of maternal-diet-induced hypertension in the rat **53**, 229A, 1994

ICONS Workshop

Nutrition information and support for overseas 53, 249, 1994 members

Immune response

The effect of dietary lipid manipulation on lymphocyte cell surface molecule expression

53, 186A, 1994

The effect of dietary lipid manipulation on leucocyte proliferation in rat whole blood

53, 187A, 1994

Immunodeficiency syndromes

Appetite and nutrition in relation to human immunodeficiency virus (HIV) infection and acquired immunodeficiency virus syndrome 53, 139, 1994 (AIDS)

Total energy expenditure and energy intake in Human Immunodeficiency Virus infected 53, 63A, 1994 men

Validation of an activity questionnaire to assess energy expenditure Human Immunodeficiency Virus infection

53, 65A, 1994

Inflammatory bowel disease

Weight loss, interleukin 6 secretion and alpha 2-macroglobulin response in experimental colitis **53**, 57A, 1994

Inflammatory response

The effect of fatty acids on the inflammatory response to cytokines by cultured rat hepatocvtes 53, 184A, 1994

Infancy

662

Influence of early diet in full-term babies on their subsequent cognitive performance during adolescence 53, 177A, 1994

Influence of iron supplementation on markers of infection in Pakistani infants 53, 264A, 1994

Milk feeding practices during the first year of life and their relationship to iron status at age 12 months 53, 155A, 1994

Nutritional composition (by chemical analysis) of sweet home-prepared weaning foods for infants. 1. Energy and macronutrients

53, 77A, 1994

Resistant starch in young children

53, 105A, 1994

Seasonal fluctuations in vitamin A status and health indicators in Gambian infants

53, 144A, 1994

Selenium status in term and preterm infants

53, 263A, 1994

The effect of dietary energy density on energy intake, weight gain and change in subcutaneous fat depots in 7-month-old infants

53, 162A, 1994

The predictive value of plasma antioxidant activity at birth for morbidity and mortality of premature babies 53, 156A, 1994

Weaning practice in Glasgow

53, 104A, 1994

Incidence of infection related to insertion sites of long lines in intensive care patients

53, 53A, 1994

InmunoNutrial®

N-acetyl cysteine, glutamine and arginine may be essential to the ability of InmunoNutril® to enhance antioxidant defences in rats challenged with endotoxin 53, 45A, 1994

Insertion techniques

Incidence of infection related to insertion sites of long lines in intensive care patients

53, 53A, 1994

Insulin

The effect of acute insulin administration on post-prandial glycogen and lipid synthesis in the rat 53, 58A, 1994

Insulin-like growth factor 1

Chronological change in serum insulin-like growth factor 1 concentrations and the relationship to growth in unweaned male, castrate male and female lambs sired by Texel or Suffolk ram 53, 11A, 1994

Interleukin-1B

Acute interleukin-1β administration induces anorexia and increases regional hypothalamic neuropeptide Y concentrations in the meal-fed rat 53, 178A, 1994

Interleukins

Interleukin-1, interleukin-1 receptor, and interleukin-1 receptor antagonist

53, 393, 1994

Intravenous nutrition

A comparison of two types of peripheral feeding

line and of the effect of heparin on line occlusion 53, 51A, 1994

Iodine

Effect of oral iodized poppyseed oil during pregnancy on maternal and infant thyroid hormones and iodine status 53, 157A, 1994

The relationship between dietary iodine intake during pregnancy and birth outcome

53, 245A, 1994
The relationship between urinary iodine excretion in 24 h urine collection and casual urine samples in Thai pregnant women

53. 256A. 1994

Iron

A comparison of iron supplementation with dietary counselling in the prevention of iron deficiency anaemia during pregnancy

53, 154A, 1994
A quantitative food frequency questionnaire for the assessment of dietary iron intake in Irish adolescents
53, 34A, 1994

An assessment of ultrafiltratable iron using a continuous flow *in vitro* method

53, 133A, 1994
Influence of iron supplementation on markers of infection in Pakistani infants
53, 264A, 1994
Iron, magnesium and ischaemic heart disease

53, 599, 1994

Milk feeding practices during the first year of life and their relationship to iron status at age 12 months 53, 155A, 1994

Riboflavin depletion enhances the transit of enterocytes along the villi 53, 149A, 1994

Irradiated food

Nutritional and other implications of irradiating meat 53, 317, 1994

Irritable bowel syndrome

The effect of an elemental diet on stool output in irritable bowel syndrome 53, 223A, 1994

Ischaemic heart disease

Iron, magnesium and ischaemic heart disease

53, 599, 1994 **53,** 6A, 1994

Type A behaviour and diet **Isotope labelling**

Excretion of ¹³C within stool and breath following oral and intravenous administration of ¹³C-labelled sodium bicarbonate

53, 225A, 1994

Ketones

Inhibition of adipose tissue lipolysis *in vivo* in man by ketone body infusion **53**, 68A, 1994

Lactation

Calcium requirements of lactating women: effect of a calcium supplement on the breast-milk calcium concentration of rural Gambian women 53, 258A. 1994

Effects of supplementary protein in the dry period on milk production in the subsequent lactation 53, 215A, 1994

Variation in probable individual feed intake of lactating cows at grass given calcined

magnesite-containing feed as either nuts or cobs 53, 110A, 1994

Lactobacillus fermentum

Guar-gum feeding reduces *Lactobacillus* fermentum adherence to enterocytes

53, 227A, 1994

Leukaemia

The effect of the first course of chemotherapy on dietary intake and urinary urea nitrogen in acute myeloid leukaemia 53, 50A, 1994

Lignans

Hormonal effects of lignins in a group of men 53, 230A, 1994

Lipid metabolism

Effect of monounsaturated fatty-acid-enriched test meals on plasma insulin and GIP concentrations 53, 167A, 1994

The effects of adrenaline on fatty acid turnover and oxidation in lean and obese subjects

53, 192A, 1994

The effects of starvation and the insulin/glucose clamp on plasma fatty acid turnover and oxidation 53, 165A, 1994

The intra- and inter-individual variability in the gastrointestinal handling of [1-13C]palmitic acid in healthy adults 53, 166A, 1994

The use of stable isotopes and mass spectrometry in studying lipid metabolism 53, 355, 1994

Lipoproteins

Effect of lutein on oxidation of low-density lipoproteins (LDL) in vitro 53, 18A, 1994

Impaired postprandial clearance of triacylglycerol-rich lipoproteins in adipose tissue in obesity 53, 193A, 1994

Influence of dietary long-chain n-3 fatty acids on susceptibility to oxidation of low-density lipoprotein in man 53, 78A, 1994

The effect of dietary fatty acids on lipoprotein composition in the rat 53, 188A, 1994

Tocopherol content, fatty acid composition and oxidation products in copper-mediated low-density lipoprotein oxidation 53, 17A, 1994

Lipoprotein lipase

Lipoprotein lipase and insulin-sensitive glucose transporter (GLUT4) gene expression in tissues of lean and obese (ob/ob) mice exposed acutely to cold 53, 90A, 1994

Livestock production

Meat and right: the ethical dilemma

53, 263, 1994

Lone parents

Dietary intakes of female lone parents in London: energy and micronutrients

53, 97A, 1994

Luminal viscosity

Increasing luminal viscosity stimulates crypt-cell proliferation throughout the gut

53, 226A, 1994

Lysin

Role of coprophagy in the utilization of microbial lysine by rats 53, 109A, 1994

Macronutrients

Changes in energy and macronutrient intakes after smoking cessation 53, 219A, 1994
Sexual dimorphism of macronutrient selection and regional adipose tissue accumulation following *in utero* exposure to maternal low-protein diet 53, 172A, 1994

Magnesium

Iron, magnesium and ischaemic heart disease **53,** 599, 1994

Major histocompatibility complex

Dietary fish-oil supplementation inhibits the expression of major histocompatibility complex (MHC) class II molecules and adhesion molecules on human monocytes

53, 130A, 1994

Eicosapentaenoic acid inhibits the expression of major histocompatibility complex (MHC) class II molecules and adhesion molecules on human monocytes in vitro 53, 153A, 1994

Malaria

Interpretation of abnormal biochemical indicators of nutritional status during malaria infection 53, 243A. 1994

Malnutrition

Effect of protein malnutrition on food intake.

protein distribution and acute-phase protein
response in the rat 53, 43A, 1994

Mammary development

Relationships between nutrition, puberty and mammary development in cattle **53**, 103, 1994

Mass isotopomer analysis

The use of uniformly labelled substrates and mass isotopomer analysis to study intermediary metabolism 53, 345, 1994

Mass spectrometry

Mass spectrometric analysis of stable-isotopelabelled amino acid tracers 53, 363, 1994

The use of stable isotopes and mass spectrometry in studying lipid metabolism 53, 355, 1994

Measurement error

Measurement error: effects and remedies in nutritional epidemiology 53, 37, 1994
Measuring nutritional exposures including biomarkers 53, 27, 1994

Meat

Manipulation of the polyunsaturated fatty acid content of pig meat in conformity with dietary guidelines 53, 14A, 1994

Meat and right: the ethical dilemma

53, 263, 1994

Microbial hazards in animal products

53, 309, 1994
Nutritional and other implications of irradiating meat 53, 317, 1994
Response of selenium content of chicken flesh to

increased selenium in feed Social aspects of meat eating 53, 206A, 1994

The role of nutrients in meat flavour formation 53, 327, 1994

UK consumer perceptions of meat Vitamin E and meat quality 53, 281, 1994 53, 289, 1994

Meat production

The effect of a beta-agonist (clenbuterol) on heat production of beef heifers 53, 10A, 1994

Melatonin

Control of seasonality by melatonin

53, 483, 1994

Menarche

The right weight: body fat, menarche and fertility **53**, 113, 1994

Menstrual cycle

Energy intake in the follicular and luteal phases

of the menstrual cycle in Mexican women 53, 216A, 1994

Mercury

Mercury-zinc interactions in the marginally zincdeficient rat **53,** 111A, 1994

Microbial metabolism

Microbial hazards in animal products

53, 309, 1994

Micronutrients

Adequacy of vitamin A and vitamin C intakes in Scotland: the use of probability analyses

53, 33A, 1994

Can dietary micronutrients influence tissue antioxidant capacity? **53**, 53, 1994

Children with a high milk consumption are more likely to have micronutrient intakes which meet reference nutrient intakes

53, 142A, 1994

Micronutrients and cancer aetiology: the epidemiological evidence **53,** 605, 1994 Micronutrients and fetal growth retardation in

Brazil 53, 176A, 1994 Micronutrients and oxidative stress in the

aetiology of cancer **53**, 67, 1994 Newer aspects of micronutrients in chronic

disease: copper 53, 583, 1994 Newer aspects of micronutrients in chronic

disease: vitamin E **53,** 571, 1994 Nutritional composition (by chemical analysis) of sweet home-prepared weaning foods for infants. 3. Sodium, zinc, iron, iodine

53, 250A, 1994

Plasma retinol, a-tocopherol and carotenoids in the cystic fibrosis population at Cork Regional Hospital 53, 137A, 1994

Stability of fat-soluble vitamins in whole 53, 147A, 1994 blood

The contribution of breakfast to daily micronutrient intakes of adults in Great Britain

53, 251A, 1994 The effect of fortification on daily micronutrient

intakes of breakfast cereal consumers in Great Britain 53, 143A, 1994 The effects of amino acids on iron and zinc

dialysability in vitro 53, 22A, 1994

Middle age

Water turnover rates in sedentary and active middle-aged men 53, 101A, 1994

Migration

Seasonal changes in body mass, body composition and food requirements in wild migratory birds 53, 521, 1994

Model membranes

Determinants of carotenoid antioxidant activity in model membranes **53,** 194A, 1994

MONICA studies

Dietary vitamin K (phylloquinone) intake in 53, 98A, 1994 Scottish men

Mortality

Seasonality of mortality: variation by disease category, age, latitude and national economic 53, 89A, 1994 status

mRNA

A simplified approach to measuring mRNA on Northern blots using chemiluminescencebased detection with digoxigenin end-labelled oligonucleotides 53, 112A, 1994

Multiple organ failure

Muscle wasting in multiple organ failure measured using ultrasound 53, 39A, 1994 The use of bioimpedance to measure total body water in multiple organ failure 53, 62A, 1994

N metabolism

The effect of excessive amounts of branchedchain amino acids on amino acid utilization in 53, 108A, 1994 growing pigs

Nematodes

Seasonal infections and nutritional status

53, 545, 1994

Neonate

Comparison of adult and neonatal fementation of simple and complex carbohydrate

53, 93A, 1994 Effect of fetal thyroidectomy on thermo-

regulation in newborn lambs **53**, 213A, 1994 Effects of nutrition and thyroxine administration on perirenal adipose tissue development in

hand-reared postnatal lambs 53, 214A, 1994 Ontogenic changes in peri-renal brown adipose tissue of newborn lambs 53, 212A, 1994

The effect of non-protein energy intake on protein metabolism kinetics in neonates receiving 53, 56A, 1994 total parenteral nutrition

Nepal

Resting metabolic rate in rural Nepali men and women **53**, 73A, 1994

Neural-tube defects

The role of folate in the prevention of neural-tube defects **53**, 631, 1994

Neurodegenerative disease

Nutrient and toxin interactions in neurodegenerative disease **53**, 431, 1994

Neutrophils

The effect of parenteral nutrition on neutrophil adhesion molecule expression 53, 47A, 1994

Non-enzymic glycosylation

Non-enzymic glycosylation of haemoglobin in genetically obese (ob/ob), heterozygous (ob/+) and normal mice **53**, 113A, 1994

Non-ulcer dyspepsia

An investigation of eating patterns in non-ulcer dyspepsia 53, 29A, 1994

Nuclear magnetic resonance

Nuclear magnetic resonance spectroscopy as a

Vol. 53 tool to study carbohydrate metabolism **53**, 335, 1994 Nutrition education Established behaviour influences public perception of nutrition education messages 53, 241A, 1994 Type of message construction affects public per-**53**, 242A, 1994 ception **Nutrition information** A survey of nutrition interest among general practitioners 53, 119A, 1994 Mothers' perceptions of food for their children 53, 238A, 1994 Nutrition information and support for overseas **53,** 249, 1994 members Nutritional epidemiology Epidemiology and the role of antioxidants in preventing coronary heart disease: a brief 53, 59, 1994 overview Linking the field to the laboratory in nutrition research 53, 43, 1994 Measurement error: effects and remedies in nutritional epidemiology **53**, 37, 1994 Measuring nutritional including exposures biomarkers **53,** 27, 1994 **Nutritional requirements** Diet and exercise performance in the horse **53**, 189, 1994 Differences between cats and dogs: a nutritional **53,** 15, 1994 Nutrition of the brain: macronutrient supply **53**, 401, 1994 Nutritional aspects of endurance exercise in humans **53,** 181, 1994 Nutritional implications of a meatless diet **53**, 297, 1994 Nutritional implications of work in draught animals **53**, 169, 1994 Physical activity, protein metabolism and protein **53**, 223, 1994 requirements Seasonal changes in body mass, body composition and food requirements in wild migratory **53,** 521, 1994 birds **Nutritional science** Linking the field to the laboratory in nutrition

53, 43, 1994 The application of nutritional science to clinical **53,** 1, 1994 practice Total reflection X-ray fluorescence: a sensitive multi-element technique for the analysis of nutritional and toxic elements 53, 132A, 1994

Nutritional status Anthropometry, nutritional knowledge, and nutrient intakes in a group of Irish adults with essential hypertension 53, 123A, 1994 Appetite and nutrition in relation to human immunodeficiency virus (HIV) infection and acquired immunodeficiency virus syndrome (AIDS) **53**, 139, 1994 Clinical problems of a short bowel and their treatment

53, 373, 1994 Interpretation of abnormal biochemical indicators of nutritional status during malaria infection 53, 243A, 1994

Nutrition and mental performance 53, 443, 1994 Nutritional status and comparison of prescribed v. actual nutritional intakes of nasogastrically fed neurosurgical patients 53, 118A, 1994 Relationships between nutrition, puberty and mammary development in cattle 53, 103, 1994 Seasonal changes in growth and energy status in the Third World **53**, 509, 1994 Seasonal infections and nutritional status

53, 545, 1994 Surviving in Sarajevo: winter nutrition monitoring 1993-1994 53, 266A, 1994 The exclusion of folic-acid-fortified foods significantly reduces folate status 53, 265A, 1994 The role of nutrition and photoperiod in the **53**, 89, 1994 timing of puberty

Nutritional support methodology

Access methods in nutritional support

53, 465, 1994

Nutritional support via percutaneous endoscopic gastrostomy **53**, 473, 1994

Nutritional value

Nutritional and other implications of irradiating **53**, 317, 1994 meat

Obesity

A comparison of estimated v. measured energy expenditure in the obese 53, 75A, 1994 Impaired postprandial clearance triacylglycerol-rich lipoproteins in adipose 53, 193A, 1994 tissue in obesity Non-enzymic glycosylation of haemoglobin in genetically obese (ob/ob), heterozygous (ob/+) and normal mice 53, 113A, 1994

Olive oil

Olive oil and postprantial lipaemia: a study on the effects of meals of different olive-oil content on postprandial plasma-lipid levels in healthy men 53, 164A, 1994

Orotic acid

Effects of dietary orotic acid on the blood cholesterol content and profile of rats

53, 24A, 1994

Overseas members

Nutrition information and support for overseas 53, 249, 1994 members

Oxidative stress

UVA-light-induced oxidative stress: an investigation of potentially protective dietary constituents in an in vitro cell culture model system 53, 141A, 1994

Oxidized fats

Effect of dietary oil quality and α-tocopherol supplementation on the oxidative stability of broiler tissues 53, 13A, 1994

Parenteral nutrition

Catheter-related morbidity in patients on home parenteral nutrition **53,** 54A, 1994 Nutrient-induced thermogenesis of a complete total parenteral nutrition mixture: relative contributions of glucose and amino acids 53, 37A, 1994

The effect of non-protein energy intake on protein metabolism kinetics in neonates receiving total parenteral nutrition **53,** 56A, 1994 The effect of parenteral nutrition on neutrophil

adhesion molecule expression 53, 47A, 1994

Peptides

Peptide utilization by tissues: current status and applications of stable isotope procedures

Peptide supplement

53, 457, 1994 Double-blind pilot trial, in elderly women with

v. a defined formula peptide oral supplement **53**, 203A, 1994

fractured femur, of ornithine α-ketoglutarate

Percutaneous endoscopic gastrostomy

Nutritional support via percutaneous endoscopic gastrostomy **53**, 473, 1994

Phosphatidylcholine

Hepatic phosphatidylcholine biosynthesis in the rat: effects of pregnancy **53,** 190A, 1994

Pregnancy-associated adaptations to maternal hepatic and plasma phosphatidylcholine molecular species composition

53, 191A, 1994

Photoperiodic signals

Control of seasonality by melatonin

53, 483, 1994

Photoperiod and the regulation of annual and circannual cycles of food intake 53, 495, 1994 The role of nutrition and photoperiod in the timing of puberty **53**, 89, 1994

Physical activity

A 12-week programme of brisk walking and postprandial lipaemia in previously-sedentary **53**, 71A, 1994 women aged 40-55 years Energy balance and physical activity in primary

school children 53, 2A, 1994 Energy expenditure and physical activity in re-

lation to fitness in children **53**, 207, 1994 Physical activity, protein metabolism and protein requirements **53**, 223, 1994

Physical activity, undernutrition and child devel-**53,** 241, 1994 opment

Plasma lipids

The effects of altered food frequency consumption on plasma lipids in free-living healthy volunteers **53**, 27A, 1994

Plasma membrane

Dietary lipid manipulation influences phospholipid class distribution in the rat hepatocyte plasma membrane **53**, 189A, 1994

Effects on endotoxin on liver plasma membrane phospholipid class distribution in rats fed on maize and olive oils and butter

53, 181A, 1994

Platelets

The effect of postprandial lipaemia on platelet aggregation **53,** 81A, 1994

Polyunsaturated fatty acids

Manipulation of the polyunsaturated fatty acid content of pig meat in conformity with dietary guidelines 53, 14A, 1994

Development and evaluation of a computerbased food atlas for portion size estimation 53, 129A, 1994

Postprandial lipaemia

A 12-week programme of brisk walking and postprandial lipaemia in previously-sedentary women aged 40-55 years 53, 71A, 1994

Increased postprandial lipaemia with a diet rich in oleic acid is decreased by n-3 fatty acids in healthy young men 53, 151A, 1994

Influence of short-term cessation of endurance training on postprandial lipaemia in man

53, 220A, 1994

Meal fat content and postprandial lipaemia: apo B48 and retinyl palmitate as markers of chylomicron particles 53, 82A, 1994

Olive oil and postprantial lipaemia: a study on the effects of meals of different olive-oil content on postprandial plasma-lipid levels in healthy **53**, 164A, 1994

The effect of postprandial lipaemia on platelet aggregation 53, 81A, 1994

The effect of very-low-, moderate- and high-fat snacks on postprandial reverse cholesterol transport in healthy volunteers

53, 124A, 1994

The effects of exercise on postprandial lipaemia: apoliproprotein B-48 and retinyl palmitate as markers of chylomicron particles

53, 163A, 1994

Postprandial metabolism

The postprandial response to high-fat, lowcarbohydrate and low-fat, high-carbohydrate meals providing the same amounts of energy in subjects at risk of heart disease

53, 221A, 1994

The effects of potassium exclusion on resting energy expenditure and kidney protein synthesis in young rats **53**, 198A, 1994

Potato starch

The effect of the addition of raw potato starch to habitual diet on stool output 53, 224A, 1994

Potoroine marsupials

Digestion in potoroine marsupials: forestomach fermenters or metabolic generalists?

53, 94A, 1994

Pregnancy

Assessment of haematological status in early pregnancy 53, 4A, 1994

Fetal growth retardation and insulin resistance induced by a low-protein diet during preg-53, 175A, 1994

Hepatic phosphatidylcholine biosynthesis in the rat: effects of pregnancy 53, 190A, 1994

Micronutrients and fetal growth retardation in Brazil **53**, 176A, 1994

Pregnancy-associated adaptations to maternal hepatic and plasma phosphatidylcholine molecular species composition

53, 191A, 1994

Prenatal nutritional adequacy and gender influence the ability of adult rats to produce interleukins 1 and 6 and tumour necrosis factor α 53, 182A, 1994

The relationship between dietary iodine intake during pregnancy and birth outcome

53, 245A, 1994

The relationship between urinary iodine excretion in 24 h urine collection and casual urine samples in Thai pregnant women

53, 256A, 1994

The role of dietary protein restriction during pregnancy on the activity of placental 11β-hydroxysteroid dehydrogenase

53, 170A, 1994

Premature infants

A randomized clinical trial of parenteral selenium supplementation in preterm infants

53, 205A, 1994

High plasma vitamin C in premature babies may inhibit the antioxidant activity of caerulo-plasmin 53, 208A, 1994

Protein intake

Dietary effects on tyrosine availability and catecholamine synthesis in the central nervous system: possible relevance to the control of protein intake 53, 419, 1994

Fetal growth retardation and insulin resistance induced by a low-protein diet during pregnancy 53, 175A, 1994

Glucose tolerance in rats exposed to maternal low-protein diets in utero 53, 173A, 1994

In utero exposure to maternal low protein diets induces hypertension in weanling rats, independently of maternal blood pressure changes 53, 171A, 1994

Sexual dimorphism of macronutrient selection and regional adipose tissue accumulation following *in utero* exposure to maternal lowprotein diet 53, 172A, 1994

The role of dietary protein restriction during pregnancy on the activity of placental 11β-hydroxysteroid dehydrogenase

53, 170A, 1994

Urea-appearance: critical determinant of ureanitrogen salvage on low-protein diet

53, 196A, 1994

Protein metabolism

Effect of intramuscular glutamine concentrations on muscle protein synthesis estimated after injury using a constant infusion of [3H] phenylalanine 53, 59A, 1994

Mass spectrometric analysis of stable-isotopelabelled amino acid tracers 53, 363, 1994

Peptide utilization by tissues: current status and applications of stable isotope procedures 53, 457, 1994

Physical activity, protein metabolism and protein requirements 53, 223, 1994

Protein supplement

Effects of supplementary protein in the dry period on milk production in the subsequent lactation 53, 215A, 1994

Protein utilization

Postprandial protein utilization in the elderly

53, 202A, 1994

Postprandial utilization of wheat protein in normal adults 53, 201A, 1994

Puberty

Relationships between nutrition, puberty and mammary development in cattle 53, 103, 1994

The role of nutrition and photoperiod in the timing of puberty 53, 89, 1994

Pyridoxal-5-phosphate

High-performance liquid chromatographic determination of plasma pyridoxal- 5-phosphate by use of the cyanide derivative 53, 134A, 1994

Renin-angiotensin system

Role of the renin-angiotensin system in the maintenance of maternal-diet-induced hypertension in the rat 53, 229A, 1994

Reproductive condition

Reproductive condition and food intake of Soay sheep born on a 6-month photoperiod when exposed to continuous 12 h light:12 h dark illumination 53, 88A, 1994

Resistant starch

Resistant starch in young children

53, 105A, 1994

Restaurants

An evaluation of a method for comparison of 'healthiness' of menus in work-place restaurants 53, 121A, 1994

Resting metabolic rate

Resting metabolic rate in rural Nepali men and women 53, 73A, 1994

Riboflavin

Riboflavin depletion at weaning is associated with a failure to reach normal villus number in the rat duodenum 53, 209A, 1994

Riboflavin depletion enhances the transit of enterocytes along the villi 53, 149A, 1994

Rural Mexico

Vitamin B₁₂ deficiency in rural Mexicans

53, 257A, 1994

Seasonality

Control of seasonality by melatonin

53, 483, 1994
Long photophase is not a sufficient stimulus to reduce thermogenic capacity in winter-acclimatized short-tailed field voles (*Microtus agrestis*) during long-term cold acclimation

53, 87A, 1994

Photoperiod and the regulation of annual and circannual cycles of food intake 53, 495, 1994

Reproductive condition and food intake of Soay sheep born on a 6-month photoperiod when exposed to continuous 12 h light:12 h dark illumination 53, 88A, 1994

Seasonal changes in body mass, body composition and food requirements in wild migratory birds 53, 521, 1994

Seasonal changes in growth and energy status in the Third World 53, 509, 1994

Seasonal infections and nutritional status

53, 545, 1994

Seasonal variation in the thermoregulation of the Pygmy shrew, Sorex minutus: can true resting metabolic rate be measured in post-absorptive shrews? **53**, 86A, 1994

Seasonal variation in vitamin D **53**, 533, 1994 Seasonality of mortality: variation by disease category, age, latitude and national economic 53, 89A, 1994 status

Selenium

A randomized clinical trial of parenteral selenium supplementation in preterm infants

53, 205A, 1994

New metabolic roles for selenium **53**, 615, 1994 Plasma selenium concentration of the Scottish population in decline 53, 262A, 1994

Response of selenium content of chicken flesh to increased selenium in feed **53**, 206A, 1994 Selenium status in term and preterm infants

53, 263A, 1994

Selenoenzyme activity in the brain stem

53, 107A, 1994

Selenoprotein gene expression in the thyroid 53, 106A, 1994

Skeletal muscle

Cation pumps in skeletal muscle undergo dramatic up-regulation in the perinatal period

53, 246A, 1994

Sleep latency

The effect of meals of varying fat and carbohydrate content on an electrophysiological **53**, 237A, 1994 measurement of sleepiness

Factors predicting weight loss during the first 4 weeks of treatment in obese adults on three weight-reducing diets **53**, 160A, 1994

Smoking

Cellular antioxidant defence systems in smokers compared with non-smokers: effect of vitamin E supplementation **53**, 91A, 1994

Changes in energy and macronutrient intakes 53, 219A, 1994 after smoking cessation

Snack foods

Longitudinal changes in the snack food choices of teenagers living in the West of Scotland

53, 100A, 1994

Snacks

Few differences in mean daily intake associated with a high intake of snacks in school children 53, 253A, 1994

Social class

The influence of social privilege on food and nutrient intakes in adolescent females

53, 255A, 1994

Sodium

The effect of heat exposure on sodium balance at

three levels of dietary sodium intake 53, 244A, 1994

Stable isotopes

A new tracer method (the labelled bicarbonateurea method) for estimating energy expenditure in man 53, 41A, 1994 Effect of intramuscular glutamine concentrations on muscle protein synthesis estimated after injury using a constant infusion of [3H] 53, 59A, 1994 phenylalanine

Mass spectrometric analysis of stable-isotopelabelled amino acid tracers **53**, 363, 1994

Nuclear magnetic resonance spectroscopy as a tool to study carbohydrate metabolism

53, 335, 1994

Peptide utilization by tissues: current status and applications of stable isotope procedures

53, 457, 1994

Recovery of 13C in breath from infused NaH13CO3 increases during euglycaemic hyperinsulinaemia due to a time-dependent effect 53, 40A, 1994

The use of stable isotopes and mass spectrometry in studying lipid metabolism 53, 355, 1994

The use of uniformly labelled substrates and mass isotopomer analysis to study intermediary metabolism **53**, 345, 1994

Starvation

The effect of acute starvation on tissue glutathione concentrations in the rat 53, 60A, 1994 The effects of starvation and the insulin/glucose clamp on plasma fatty acid turnover and oxidation 53, 165A, 1994

Statistical analysis

Adequacy of vitamin A and vitamin C intakes in Scotland: the use of probability analyses

53, 33A, 1994

Should nutrient variables be transformed before epidemiological analyses? 53, 32A, 1994

Steroid hormones

Novel functions of vitamin B₆ 53, 625, 1994

Fibre and antioxidant vitamin intakes of women in relation to recommendations for dietary sugars 53, 21A, 1994

Nutritional composition (by chemical analysis) of sweet home-prepared weaning foods for infants. 2. Sugars **53**, 249A, 1994

Surgery

Cytokine changes in the postoperative period 53, 159, 1994

Does disorder of gastrointestinal motility affect food intake in the post-surgical patient?

53, 151, 1994

Early endogenous mediators of the response to 53, 42A, 1994 trauma Effect of undernutrition on muscle protein

synthesis at local and distant sites following surgery in the rat 53, 55A, 1994

Nutritional status and comparison of prescribed v. actual nutritional intakes of nasogastrically fed neurosurgical patients 53, 118A, 1994

Paediatric referrals for combined small bowel and liver transplantation: timing and indications; Room for Improvement? 53, 48A, 1994

Taste

Feeding trial, composition, oxidative stability and

sensory evaluation of cultured turbot fed three commercial feeds 53, 128A, 1994

Thermic effect

Thermic effect of continuous feeding in young and elderly healthy adults 53, 217A, 1994

Thermogenesis

Nutrient-induced thermogenesis of a complete total parenteral nutrition mixture: relative contributions of glucose and amino acids

53, 37A, 1994

Thermoregulation

Long photophase is not a sufficient stimulus to reduce thermogenic capacity in winter-acclimatized short-tailed field voles (*Microtus agrestis*) during long-term cold acclimation

53, 87A, 1994

Seasonal variation in the thermoregulation of the Pygmy shrew, *Sorex minutus*: can true resting metabolic rate be measured in post-absorptive shrews? 53, 86A, 1994

Third World

Seasonal changes in growth and energy status in the Third World 53, 509, 1994

Thyroid

Effect of fetal thyroidectomy on thermoregulation in newborn lambs 53, 213A, 1994
Effect of oral iodized poppyseed oil during pregnancy on maternal and infant thyroid
hormones and iodine status 53, 157A, 1994
New metabolic roles for selenium 53, 615, 1994
Selenoprotein gene expression in the thyroid

53, 106A, 1994

Thyroxine

Effects of nutrition and thyroxine administration on perirenal adipose tissue development in hand-reared postnatal lambs 53, 214A, 1994

α-Tocopherol

DNA damage in cultured human T-lymphocytic cells as detected by the 'comet assay': effect of increased cellular β-carotene and α-tocopherol 53, 140A, 1994

Effect of dietary oil quality and α-tocopherol supplementation on the oxidative stability of broiler tissues 53, 13A, 1994

Plasma, platelet and erythrocyte α-tocopherol concentrations as static measures of vitamin E status in rats 53, 145A, 1994

Tocopherol content, fatty acid composition and oxidation products in copper-mediated low-density lipoprotein oxidation 53, 17A, 1994

Uptake of α-tocopherol in porcine plasma, muscle and adipose tissue 53, 12A, 1994

Total body water

The use of bioimpedance to measure total body water in multiple organ failure 53, 62A, 1994

Total reflection X-ray fluorescence

Total reflection X-ray fluorescence: a sensitive multi-element technique for the analysis of nutritional and toxic elements 53, 132A, 1994

Toxin:

Nutrient and toxin interactions in neurodegenerative disease 53, 431, 1994

Triacylglycerols

Postprandial triacylglycerol concentration and coagulation factor VII activity 53, 26A, 1994

Tryptophan

Selection of dietary tryptophan concentration by growing pigs 53, 199A, 1994

Tuberculosis

The effect of tuberculosis and undernutrition on protein turnover and the response to nutrition 53, 46A, 1994

Tumour necrosis factor a

Fatty acids modulate the affinity of tumour necrosis factor-α (TNFα) receptors in cultured rat hepatocytes 53, 180A, 1994

Tyrosine

Dietary effects on tyrosine availability and catecholamine synthesis in the central nervous system: possible relevance to the control of protein intake 53, 419, 1994

UK consumers

UK consumer perceptions of meat 53, 281, 1994 Undernutrition

Effect of undernutrition on muscle protein synthesis at local and distant sites following surgery in the rat 53, 55A, 1994

Physical activity, undernutrition and child development 53, 241, 1994

The effect of tuberculosis and undernutrition on protein turnover and the response to nutrition 53, 46A, 1994

Urea

Incorporation of ¹⁵N-ammonia into urea and amino acids as influenced by fasting and feeding in man 53, 200A, 1994

Urea-appearance: critical determinant of ureanitrogen salvage on low-protein diet

53, 196A, 1994

Vegetable intake

Fruit and vegetable consumption of 10–11 year old children in Tayside 53, 96A, 1994
Fruit and vegetable intake in the West of Scotland 53, 99A, 1994

Vegetarians

Nutritional implications of a meatless diet

53, 297, 1994

UK consumer perceptions of meat 53, 281, 1994 Villus number

Riboflavin depletion at weaning is associated with a failure to reach normal villus number in the rat duodenum **53**, 209A, 1994

Vitamin A

Seasonal fluctuations in vitamin A status and health indicators in Gambian infants

53, 144A, 1994

Vitamin B₆

Novel functions of vitamin B₆ 53, 625, 1994 Vitamin B₁₂

Vitamin B₁₂ deficiency in rural Mexicans

53, 257A, 1994

Vitamin C

B-Carotene, are we misreading the signals in risk

groups? Some analogies with vitamin C

53, 557, 1994

High plasma vitamin C in premature babies may inhibit the antioxidant activity of caerulo-plasmin 53, 208A, 1994

Vitamin D

Seasonal variation in vitamin D 53, 533, 1994 Vitamin E

Effect of copper and/or vitamin E deficiency on DNA damage in heart and aorta cells of hamsters fed on fish oil or maize oil

53, 15A, 1994

Effect of low-dose fish-oil supplementation with or without added vitamin E on plasma vitamins 53, 207A, 1994

Endotoxin-induced production of interleukin-6 (IL-6) is enhanced by vitamin E deficiency and reduced by dietary polyphenols

53, 183A, 1994
Influence of dietary long-chain n-3 fatty acids with and without additional vitamin E on aortic fatty streak formation 53, 150A, 1994
Newer aspects of micronutrients in chronic

Newer aspects of micronutrients in chronic disease: vitamin E 53, 571, 1994

Plasma, platelet and erythrocyte α-tocopherol concentrations as static measures of vitamin E status in rats 53, 145A, 1994

Vitamin E and meat quality 53, 289, 1994 Vitamin E: molecular and biological function

53, 251, 1994

Vitamin K

Dietary vitamin K (phylloquinone) intake in Scottish men 53, 98A, 1994

Vitamin-mineral supplements

Can dietary micronutrients influence tissue antioxidant capacity? 53, 53, 1994 Carotenoids: functions and fallacies 53, 77, 1994

Water turnover

Water turnover rates in sedentary and active middle-aged men 53, 101A, 1994

Weaning

Amylase-rich flour improves the digestibility of cereal-based weaning foods 53, 92A, 1994
Nutritional composition (by chemical analysis) of sweet home-prepared weaning foods for infants. 1. Energy and macronutrients

53, 77A, 1994

Nutritional composition (by chemical analysis) of sweet home-prepared weaning foods for infants. 2. Sugars 53, 249A, 1994

Nutritional composition (by chemical analysis) of sweet home-prepared weaning foods for infants. 3. Sodium, zinc, iron, iodine

53, 250A, 1994

The effect of supplementation with groundnut (Arachis hypogaea) and/or milk on the viscosity and energy density of maize porridges as weaning foods in developing countries

53, 248A, 1994 **53**, 104A, 1994

Weaning practice in Glasgow
Weight loss

53, 104A, 1994

Factors predicting weight loss during the first 4 weeks of treatment in obese adults on three weight-reducing diets 53, 160A, 1994

Wheat protein

Postprandial utilization of wheat protein in normal adults 53, 201A, 1994

Yoghurt

Effects of dietary yoghurt on cholesterol synthesis and sterol excretion in rats 53, 25A, 1994

Zinc

Mercury-zinc interactions in the marginally zincdeficient rat 53, 111A, 1994 Zinc-reversible candidastatic activity of leucocyte protein, calprotectin 53, 247A, 1994