Index of Subjects

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

Acipimox	Regulation of the antilipolytic effect of adenosine
The effect of Acipimox administration on the	in sheep adipose tissue by growth hormone
contribution of different pathways to	55, 26A, 1996
postprandial glycogen synthesis in cachectic	The influence of triidothyronine and/or
tumour-bearing rats 55, 170A, 1996	noradrenaline on perirenal adipose tissue
Adipose tissue	composition in lambs delivered near to term by
A comparison of insulin-stimulated glucose	Caesarean section 55, 118A, 1996
uptake in isolated adipocytes from different fat	The organisation of adipose tissue surrounding
deposits. Does glucagon-like peptide 1 enhance	lymph nodes in guinea-pigs and methods of
uptake? 55, 228A, 1996	studying local interactions between adipose
Adipocyte hormone-sensitive lipase: a major	and lymphoid tissue 55, 116A, 1996
regulator of lipid metabolism 55, 93, 1996	Variations in GLUT4 protein content among
Administration of an anti-adipocyte monoclonal	bovine adipose tissues 55, 21A, 1996
antibody to piglets: effects on adipose tissue	Adolescence
development and lipid content 55, 23A, 1996	A study of bone growth in adolescent girls: the
Cyclic AMP modulates adipogenesis in 3T3-	effect of an 18-month, milk-based dietary
F442A cells 55, 24A, 1996	intervention 55, 11A, 1996
Effects of <i>n</i> -3 polyunsaturated fatty acids on lipid	Adolescent Kingston girls' school achievement:
storage-related enzymes in adipose tissue of	nutrition, health and social factors
sucrose-fed insulin resistant rats	55 , 333, 1996
55, 73A, 1996	Adolescent nutritional status in developing
Elevated expression of the ob (obese) gene in	countries 55, 321, 1996
white adipose tissue of diabetic (db/db) mice	Anaemia in adolescent girls: effects on cognitive
55, 28A, 1996 Fatty acids and expression of lipid-related genes	function and activity 55, 359, 1996 Basal metabolic rate (BMR) in pre-adolescent and
in adipose cells 55, 151, 1996	adolescent children 55, 136A, 1996
Influence of thyroid hormones and temperature on	Dietary restraint and nutrient intakes of ado-
adipose tissue development and lung matu-	lescents 55, 217A, 1996
ration 55, 561, 1996	Influences on adolescent food choice
Involvement of brown adipose tissue in the	55, 345, 1996
limiting effect of <i>n</i> -3 polyunsaturated fatty	Adrenaline
acids on obesity induced by a high fat diet in	Microdialysis of adipose tissue to assess the
the rat 55, 109A, 1996	effects of adrenaline infusion 55, 163A, 1996
Limitation of the hypertrophy of adipose tissues	Adults
by fish-oil n-3 fatty acids during high-fat	Waist:height ratio is a simple anthropometric
feeding in the rat: eicosapentaenoic acid v.	index which is closely associated with blood
docosahexaenoic acid 55, 107A, 1996	pressure in middle-aged British adults
Microdialysis of adipose tissue to assess the	55, 230A, 1996
effects of adrenaline infusion 55, 163A, 1996	Ageing
Number and affinity of subcutaneous insulin	The effect of age on the utilization of infused
receptors during growth in Large White and	glucose studied using the hyperglycaemia
Meishan pigs 55 , 66A, 1996	glucose clamp 55, 168A, 1996
Nutritional regulation of the expression of the ob	Agri-food policy
(obese) gene in white adipose tissue of mice	Consumption implications of agri-food policies
55, 27A, 1996	55 , 649, 1996
Over-expression of GLUT4 selectively in adipose	Albumin
tissue in transgenic mice: implications for	Effect of dietary proteins on the meal stimulation
nutrient partitioning 55, 191, 1996	of albumin synthesis in humans. Relations with
Regulation of ovine preadipocyte differentiation	the precursor pool for protein synthesis
<i>in vitro</i> 55, 25A, 1996	55 , 41A, 1996

Alcohol

The metabolic disposal of [1-¹³C]ethanol in relation to habitual ethanol consumption in healthy men. 55, 128A, 1996

Amino acids

Application of a new method for the measurement of circulating peptides 55, 36A, 1996
Assessment of compatibility of a Paediatric Trace

Element injection in a range of total parenteral nutrition mixtures 55, 198A, 1996

Comparison of apparent absorption of essential amino acids from the small intestine and their net flux across the mesenteric and portal drained viscera of lambs 55, 63A, 1996

Endogenous nitrogen and amino acid flow in the terminal ileum of preruminant calves fed on skimmed milk, soluble wheat and soyabean isolate proteins 55, 58A, 1996

Regulation of ammonia and amino acid metabolism in isolated sheep hepatocytes

S5, 39A, 1996
Responses in milk constituent secretion to intravascular administration of two mixtures of amino acids in dairy cows 55, 100A, 1996

The flooding-dose effect on the incorporation of constantly infused tracer leucine into skeletal muscle: studies with phenylalanine, threonine and arginine 55, 152A, 1996

The influence of sulphur amino acids on ureanitrogen salvage 55, 43A, 1996

Ammonia

Estimation of the enrichment of urea N precursors 55, 42A, 1996

Anaemia

Anaemia in adolescent girls: effects on cognitive function and activity 55, 359, 1996

Anaerobic fungi

Anaerobic fungi in the digestive tract of mammalian herbivores and their potential for exploitation 55, 913, 1996

Anaesthesia

The effects of anaesthesia (Halothane & Chloroform) on postprandial glycogen and lipid synthesis in rats 55, 167A, 1996

Anthropometry

Anthropometric characteristics of immigrants and non-immigrants in Canada 55, 229A, 1996
Body mass index characteristics of elderly slum dwellers in Bombay 55, 141A, 1996
Comparison of weight and height based indices

Comparison of weight and height based indices for assessment of the risk of death in severely malnourished children 55, 82A, 1996

Predicting body composition in adults

55, 85A, 1996

Relationship of biscuit, cake and confectionery consumption to body mass index and energy intake in Scottish women 55, 122A, 1996

Staff use and quality of anthropometric measures in a children's hospital 55, 254A, 1996

The effect of feeding and weaning practice on growth and nutritional status of Glasgow boys and girls in the first year of life

55, 247A, 1996

The relationship between arm-span and height in different ethnic groups 55, 84A, 1996

Use of the waist:height ratio to assess the risks of obesity 55, 83A, 1996

Waist:height ratio is a simple anthropometric index which is closely associated with blood pressure in middle-aged British adults

55, 230A, 1996

Antioxidants

Antioxidant supplementation decreases both endogenous and induced oxidative DNA damage in human lymphocytes 55, 33A, 1996

Plasma concentrations of carotenoids and antioxidant vitamins in smokers and nonsmokers 55, 93A, 1996

The role of antioxidants in nutritional support 55, 945, 1996

Variability in intake of fats and antioxidant vitamins assessed by multiple 7-day weighed dietary records 55, 245A, 1996

Apolipoproteins

A specific enzyme-linked immunosorbent assay for the measurement of apolipoprotein B-48 in triacylglycerol-rich lipoproteins

55, 112A, 1996

Apple juice

Hyperosmolality of apple juice is not the main factor which promotes water secretion in the intact human jejunum 55, 9A, 1996

Ascorbic acid

A comparison of saliva and plasma ascorbic acid **55**, 87A, 1996

Measurement of stable isotope [13C]ascorbate using gas chromatography with mass spectrometry (GCMS) 55, 88A, 1996

The effect of ascorbic loading on ascorbyl radical formation in patients with sepsis and healthy subjects 55, 89A, 1996

Asian foods

Comparison of a food-frequency questionnaire with a 4 d weighed record in South Asians 55, 75A, 1996

Provision of Asian foods in hospital

Aspartame

The effect of sucrose- and aspartame-sweetened drinks on energy intake, hunger and food choice of female, slightly restrained eaters

55, 124A, 1996

55, 74A, 1996

Atherogenesis

Potentially atherogenic chylomicron remnants are present in the low-density lipoprotein fraction as detected by a specific antibody to apolipoprotein B-48 55, 113A, 1996

Basal metabolic rate

Basal metabolic rate (BMR) in pre-adolescent and adolescent children 55, 136A, 1996
Intra individual variation in the basal metabolic rate of women: the effect of the menstrual cycle 55, 135A, 1996

Birth weight

The relationship between women's birth weight and their current cardiovascular function 55, 253A, 1996

Blood

A prospective evaluation of central venous blood flow using Doppler ultrasound in patients with long-term central venous catheters

55, 208A, 1996

Dose-response effects of dietary carrageenan (from *Eucheuma cottonii*) on blood lipids and gut tissues of rats 55, 54A, 1996

Body composition

A comparison of methods for measuring changes in fat-free mass with the acquired immune deficiency syndrome 55, 153A, 1996

Predicting body composition in adults

55, 85A, 1996

The effects of environmental temperature and photoperiod on the body composition and properties of the pelt in the Djungarian hamster, *Phodopus campbelli* 55, 104A, 1996

Body mass index

Confectionery, biscuits, cakes and desserts v. fresh fruit: influence of body mass index

55, 241A, 1996

Interviewees with higher body mass index were less likely to return diet diaries in a longitudinal national survey 55, 218A, 1996

Low sugar intakes are associated with high body mass index in the Dietary and Nutritional Survey of British Adults 55, 123A, 1996

Body weight

Energy expenditure during heavy work and its interaction with body weight 55, 126A, 1996

Bone

A study of bone growth in adolescent girls: the effect of an 18-month, milk-based dietary intervention 55, 11A, 1996

An epidemiological investigation into the influence of diet on bone mass 55, 10A, 1996 Effects of dietary and non-dietary factors on bone metabolism in women 55, 12A, 1996

Brain

Glucose transporters in the brain 55, 209, 1996

Cachexia

The effect of inhibiting gluconeogenesis on protein synthesis in cachectic tumour-bearing rats 55, 155A, 1996

Canada

Anthropometric characteristics of immigrants and non-immigrants in Canada 55, 229A, 1996

Cancer

Case report: the nutritional management of a man treated for head and neck cancer

55, 188A, 1996

Increased fibringen synthesis in cancer patients: implications for nitrogen economy

55, 248A, 1996

Screening for malnutrition in oncology patients 55, 181A, 1996

Survival of patients with metastatic colorectal cancer correlates with indices reflecting the inflammatory response, but not with weight loss 55, 182A, 1996

Carbohydrate

Acute effects of high-sucrose v. high-starch diets on insulin sensitivity in healthy volunteers

55, 169A, 1996

Carbohydrate intake

Effect of ad libitum intake of high-carbohydrate or high-fat diet on nutrient balances

55, 224A, 1996

The effects of alterations in dietary carbohydrate intake on running performance during a 10 km treadmill time trial 55, 134A, 1996

The effects of alterations in dietary carbohydrate intake on the performance of prolonged high intensity exercise in well-trained individuals

55, 236A, 1996

Carbonated beverages

Effects of carbonated beverages on eating behaviour over seven days 55, 251A, 1996

Carrageenan

Dose-response effects of dietary carrageenan (from *Eucheuma cottonii*) on blood lipids and gut tissues of rats 55, 54A, 1996

Casein

Adjustment of the expression of digestive enzymes to casein level in food in *Penaeus vannamei* (Crustacea, Decapoda)

55, 14A, 1996

Cat nutrition

Energy expenditure of adult cats estimated using the doubly-labelled-water method, indirect calorimetry and activity monitoring

Taurine metabolism in cats fed on commercial canned or dry foods 55, 65A, 1996

Childhood

An open prospective randomized comparison of a newly available high-energy enteral feed, with a conventional formula designed for children 1-6 years 55, 185A, 1996

Home gastrostomy feeding in children and the role of a nutrition nurse 55, 193A, 1996 Malnutrition in a Scottish children's hospital

55, 184A, 1996
The gastrointestinal handling and metabolic disposal of [1-¹³C]palmitic acid in normal, healthy children 55, 6A, 1996

Chloride

Production by the intestinal cell line HT29 cl.19A of arachidonic acid 5-lipoxygenase metabolites and their effect on electrogenic chloride secretion 55, 15A, 1996

Chylomicrons

Size and clearance of chylomicrons after different fat loads in young women 55, 110A, 1996

Clinical assessment

Clinical assessment in primary care: professional cooperation 55, 679, 1996

Clinical management

Screening for nutritional risk 55, 841, 1996 The management of malnutrition in hospital 55, 855, 1996

Color

Fermentation of non-digestible oligosaccharides by human colonic bacteria 55, 899, 1996
Importance of the colon as a source of circulating glucagon-like peptide 1 55, 234A, 1996
In vitro fermentation of carbohydrate by faecal bacteria of young children in Glasgow and young urban black children in Johannesburg 55, 239A, 1996

The role of butyrate in human colonic epithelial cells: an energy source or inducer of differentiation and apoptosis? 55, 937, 1996

Complex carbohydrates

A physico-chemical perspective of plant polysaccharides in relation to glucose absorption, insulin secretion and the enteroinsular axis 55, 881, 1996

Anaerobic fungi in the digestive tract of mammalian herbivores and their potential for exploitation 55, 913, 1996

Fermentation of non-digestible oligosaccharides by human colonic bacteria 55, 899, 1996 The analysis of complex carbohydrates: relevance

of values obtained *in vitro* 55, 863, 1996
The role of butyrate in human colonic epithelial cells: an energy source or inducer of differen-

tiation and apoptosis? 55, 937, 1996 The use of ¹⁴C-labelled substrates to study plant cell wall breakdown in the gastrointestinal tract 55, 927, 1996

Control of development

Aspects of gut development 55, 519, 1996
Influence of thyroid hormones and temperature on adipose tissue development and lung maturation 55, 561, 1996
Lung maturation 55, 529, 1996
Regulatory factors in the control of muscle development 55, 543, 1996

Coronary heart disease

Coronary heart disease mortality in Peninsular Malaysia 55, 138A, 1996

Cyclic AMP

Cyclic AMP modulates adipogenesis in 3T3-F442A cells 55, 24A, 1996

Cyproheptadine

Does the histamine receptor antagonist, cyproheptadine increase voluntary food intake? 55, 252A, 1996

Cystic fibrosis

Colonic fermentation capacity is reduced in children with cystic fibrosis 55, 49A, 1996
Factors affecting nutrition in early cystic fibrosis: resting energy expenditure, pulmonary inflammatory markers, body composition and genotype in a neonatally-screened population 55, 180A, 1996

Overnight percutaneous endoscopic gastrostomy (PEG) feeding using an elemental formula in

adolescents and adults with cystic fibrosis

55, 200A, 1996

The gastrointestinal handling and metabolic disposal of [1-13C]palmitic acid in patients with cystic fibrosis 55, 5A, 1996

Cytokines

Altered macrophage GTPase activity may not exclusively modify TNF-induced macrophage IL1 or IL6 production 55, 29A, 1996

Dental caries

A preliminary comparison of the frequency of sugar intake by 8-14 year old children in Tristan da Cunha and a region of Scotland

55, 242A, 1996

Developing countries

Adolescent Kingston girls' school achievement: nutrition, health and social factors

55, 333, 1996

Adolescent nutritional status in developing countries 55, 321, 1996

Dietary assessment

Comparison of a food-frequency questionnaire with a 4 d weighed record in South Asians

55, 75A, 1996

Comparison of dietary assessment methods for energy and fat in a group of young and middleaged men 55, 79A, 1996

Dietary carbohydrate

Measurement of unabsorbed dietary carbohydrates and their fermentation products following the ingestion of ¹³C carbohydrates in patients with malabsorption syndrome

55, 8A, 1996

Dietary changes

Changes over seven years in dietary patterns in the Health and Lifestyle Survey population

Movement towards a healthier diet in Tayside between 1984 and 1994 55, 240A, 1996

between 1984 and 1994
Undertaking dietary change: perceptions of ten dietary changes

55, 77A, 1996

Dietary fat

Dietary lipids affect the sensitivity of rat thymic lymphocytes to glucocorticoids

55, 160A, 1996

Effects of fish oil, olive oil and maize oil on the metabolic responses to turpentine-induced inflammation in the rat 55, 159A, 1996
Influence of variation in dietary fatty acid

Influence of variation in dietary fatty acid composition on von Willebrand's factor concentration in healthy men 55, 164A, 1996

Dietary fibre

The effect of dietary fibre upon rat peripheral blood lymphocyte proliferation

55, 161A, 1996

Dietary intake

Changing dietary intake: a plate model approach 55, 76Å, 1996

Nutrient sources of *trans* fatty acids in the Scottish population (1984–1986)

55, 212A, 1996

Dietary intervention

'Fruit instead of cakes?': an evaluation of a fatlowering dietary intervention 55, 120A, 1996

Dietary preferences

The physiological basis of dietary preferences in West Midlands behaviourally resistant house mice 55, 223A, 1996

Dietary protein

Effect of dietary proteins on the meal stimulation of albumin synthesis in humans. Relations with the precursor pool for protein synthesis

55, 41A, 1996

Endogenous nitrogen and amino acid flow in the terminal ileum of preruminant calves fed on skimmed milk, soluble wheat and soyabean isolate proteins 55, 58A, 1996

Modulated role of proteolytic enzymes in the digestion of food proteins 55, 56A, 1996

Dietary surveys

Clinical assessment in primary care: professional cooperation 55, 679, 1996

Different techniques of food preparation and cooking: implication for dietary surveys

55, 671, 1996

Food photographs improve estimates of nutrient intake in dietary surveys 55, 205A, 1996 Integration of nutritional data based on household budget surveys in European countries

55, 699, 1996

Interviewees with higher body mass index were less likely to return diet diaries in a longitudinal national survey 55, 218A, 1996

Nutrition assessment and dietary guidelines: experience from the Dutch Nutrition Surveillance System 55, 705, 1996 Nutrition surveillance in Ireland 55, 689, 1996

DNA sequencing

DNA sequencing 55, 605, 1996

Eating behaviour

Effects of carbonated beverages on eating behaviour over seven days 55, 251A, 1996

Elderly

Can nurses identify nutritionally depleted elderly patients? 55, 186A, 1996 Factors influencing postprandial protein utiliz-

ation in adults and the elderly 55, 69A, 1996
Management of malnutrition in the elderly: a clinical audit 55, 175A, 1996

Prediction of limb muscle in men over 75 years of age 55, 86A, 1996

Endotoxins

Impairment of interleukin-2 production and increased spontaneous tumour necrosis factor production by peripheral blood mononuclear cells may facilitate an exaggerated response to circulating endotoxins in humans

55, 157A, 1996

Energy balance

Factors affecting nutrition in early cystic fibrosis: resting energy expenditure, pulmonary inflammatory markers, body composition and genotype in a neonatally-screened population 55, 180A, 1996

Negative energy balance in patients hospitalized with exacerbation of chronic obstructive lung disease 55, 133A, 1996

The effect of meal frequency and energy restriction on total energy expenditure and spontaneous activity in obese subjects in a chamber calorimeter 55, 216A, 1996

Energy expenditure

Energy expenditure during heavy work and its interaction with body weight 55, 126A, 1996 Energy expenditure of adult cats estimated using the doubly-labelled-water method, indirect

calorimetry and activity monitoring 55, 129A, 1996

First measurements of resting metabolic rate (RMR), diet-induced thermogenesis (DIT) and respiratory quotient (RQ) in lithium-treated patients 55, 127A, 1996

Inter-animal variability in the energy expenditure of splanchnic tissues in preruminant calves

55, 61A, 1996

Measurement of total energy expenditure in patients with human immunodeficiency virus infection using the bicarbonate-urea method

55, 154A, 1996 Metabolism Group

Report of Macronutrient Metabolism Group
Workshop 55, 725, 1996

The role of lifestyle in health: the epidemiology and consequences of inactivity 55, 829, 1996
Total energy expenditure, basal metabolic rate

and activity plus thermogenesis before and after elective vertical band gastroplasty in obese females 55, 206A, 1996

Energy intake

Comparison of dietary assessment methods for energy and fat in a group of young and middle-aged men 55, 79A, 1996

Differences in reported macronutrient composition of the diet in overweight and lean individuals are dependent on validity of reported energy intakes 55, 232A, 1996

Recent trends towards reducing energy prescription in parenteral nutrition patients: implications for clinical practice

55, 179A, 1996

Energy metabolism

Comparisons of metabolic responses to digestible and partly indigestible starches in healthy humans 55, 7A, 1996

Energy supply

A comparison of potential energy supply from smallholder production with population's energy requirement in Malawi 55, 130A, 1996

Enteral nutrition

A prospective study of nutritional changes and of gastrostomy feeding in motor neurone disease 55, 146A, 1996

A randomized comparison of percutaneous endoscopic gastrostomy feeding and nasogastric tube feeding following acute

dysphagic stroke 55, 147A, 1996
A comparison of pre-operative percutaneous endoscopic gastrostomy feeding with standard management in patients undergoing major head and neck surgery for cancer 55, 191A, 1996

An open prospective randomized comparison of a newly available high-energy enteral feed, with a conventional formula designed for children 1-6 years 55, 185A, 1996

Continuous enteral feeding impairs gallbladder contractility in newborn infants

55, 183A, 1996 Cross-contamination of enteral feeding systems via the luer connector: a preliminary study

55, 201A, 1996

Gastrostomy feeding: a consumer survey by the LITRE working party 55, 203A, 1996
Home gastrostomy feeding in children and the role of a nutrition nurse 55, 193A, 1996
Minimal enteral feeding promotes gallbladder contractility in neonates 55, 148A, 1996

Overnight percutaneous endoscopic gastrostomy (PEG) feeding using an elemental formula in adolescents and adults with cystic fibrosis

55, 200A, 1996

Percutaneous endoscopic gastrostomy for stroke: increasing or evolving? 55, 176A, 1996 Pumps and stands limit mobility, but sleep is uninterrupted: home enteral feeding

55, 189A, 1996 Small but all that's needed. 9Ch Freka percutaneous endoscopic gastrostomies (PEG) may

last 2 years 55, 194A, 1996 Environmental temperature

The effects of ambient temperature on substrate utilization during prolonged moderate intensity exercise in man 55, 131A, 1996

The effects of environmental temperature and photoperiod on the body composition and properties of the pelt in the Djungarian hamster, *Phodopus campbelli* 55, 104A, 1996

Ethnic origin

The relationship between arm-span and height in different ethnic groups 55, 84A, 1996

Exercise

Effects of exercise training with food selection on GLUT4 glucose transporter expression in insulin-sensitive tissues in the rat

55, 20A, 1996

The effects of alterations in dietary carbohydrate intake on running performance during a 10 km treadmill time trial 55, 134A, 1996

The effects of alterations in dietary carbohydrate intake on the performance of prolonged high intensity exercise in well-trained individuals

55, 236A, 1996

Factor VII

Effect of different patterns of fat intake on postprandial lipaemia and factor VII coagulant activity 55, 227A, 1996 Influence of n-3 fatty acids on postprandial

lipaemia and factor VII coagulant activity

55, 173A, 1996

Modulating influence of alcohol and aspirin on postprandial lipaemia and factor VIIc in male subjects 55, 226A, 1996

Faeces

Detection of enriched [1-¹³C]palmitic acid in human stool samples by gas chromatography-isotope ratio mass spectrometry

55, 111A, 1996

Fat digestion

Regulation of lumen fat digestion: enzymic aspects 55, 5, 1996

Fat intake

'Fruit instead of cakes?': an evaluation of a fatlowering dietary intervention 55, 120A, 1996 Effect of ad libitum intake of high-carbohydrate or high-fat diet on nutrient balances

55, 224A, 1996

Effect of different patterns of fat intake on postprandial lipaemia and factor VII coagulant activity 55, 227A, 1996

Effect of reduced-fat and reduced-sugar food use on diet and weight status of free-living consumers 55, 215A, 1996

Effects of eicosapentaenoic acid and docosahexaenoic acid alone or in combination on plasma lipids and hepatic fatty acid oxidation in rats fed on high-fat diets

55, 108A, 1996

Expression of fatty-acid-binding-proteins (FABP) along the small intestine in mice: effects of a high-fat diet and fatty acids 55, 16A, 1996

Food consumption patterns and misclassification of total fat intake of individuals 55, 2A, 1996 Gastric lipase activity is modulated by dietary fat intake in human subjects 55, 72A, 1996

How the fatty acid composition of previous highfat diets affects lipid absorption in rats

55, 52A, 1996

Investigation of the action of a preload of incorporated or added fat on appetite ratings and food consumption 55, 3A, 1996

Oxidized lipids in food 55, 246A, 1996 Size and clearance of chylomicrons after different

fat loads in young women 55, 110A, 1996

The effect of dietary lipid manipulation upon fuel utilization by rat lymphocytes 55, 117A, 1996

Variability in intake of fats and antioxidant vitamins assessed by multiple 7-day weighed dietary records 55, 245A, 1996

Fatty-acid-binding proteins

Effect of glucocorticoids on the fatty-acidbinding protein (FABP) expression in rat liver 55, 17A, 1996

Expression of fatty-acid-binding-proteins (FABP) along the small intestine in mice: effects of a high-fat diet and fatty acids 55, 16A, 1996

Fatty acids

Influence of *n*-3 fatty acids on postprandial lipaemia and factor VII coagulant activity

55, 173A, 1996

Placental transfer of fatty acids from the maternal to the fetal circulation studied in the perfused human placenta 55, 114A, 1996

Postprandial serum promoted cholesterol efflux depends on fatty acid composition of the oral load 55, 71A, 1996

Rapid entry of dietary fatty acids into the plasma non-esterified fatty acid pool 55, 162A, 1996

The effect of varying *n*-6.*n*-3 fatty acid ratio of the diet upon blood lipid concentrations in the rat 55, 166A, 1996

The influence of a modified diet on the activity of the delta-6-desaturase enzyme in men

55, 255A, 1996

The scientific rationale and clinical application of short-chain fatty acids and medium-chain triacylglycerols 55, 49, 1996

Feed preferences

Effects of exercise training with food selection on GLUT4 glucose transporter expression in insulin-sensitive tissues in the rat

55, 20A, 1996

Fermentation

Colonic fermentation capacity is reduced in children with cystic fibrosis 55, 49A, 1996

In vitro fermentation of carbohydrate by faecal bacteria of young children in Glasgow and young urban black children in Johannesburg 55, 239A, 1996

The effect of weaning practice on fermentation capacity in breast-fed babies 55, 48A, 1996

Fibrinogen

Increased fibrinogen synthesis in cancer patients: implications for nitrogen economy

55, 248A, 1996

Flavonoids

Epidemiological evidence on potential health properties of flavonoids 55, 385, 1996

Food choice

Eating behaviour, food preferences and dietary intake in relation to obesity and body-weight status 55, 803, 1996

Influences on adolescent food choice 55, 345, 1996

Food-frequency questionnaire

Movement towards a healthier diet in Tayside between 1984 and 1994 55, 240A, 1996

Food intake

Changes over seven years in dietary patterns in the Health and Lifestyle Survey population

55, 78A, 1996

Confectionery, biscuits, cakes and desserts v. fresh fruit: influence of body mass index

55, 241A, 1996

Consumption of cakes, biscuits and confectionery by British schoolchildren: association with nutrient intakes 55, 121A, 1996

Factors influencing final consumption of fruit and vegetables in Scotland: some preliminary results 55, 119A, 1996

Food consumption patterns and misclassification of total fat intake of individuals 55, 2A, 1996

Investigation of the action of a preload of incorporated or added fat on appetite ratings and food consumption 55, 3A, 1996

Macronutrients, appetite and day-to-day food intake in humans 55, 4A, 1996

Relationship of biscuit, cake and confectionery consumption to body mass index and energy intake in Scottish women 55, 122A, 1996

The effect of meal frequency and energy restriction on total energy expenditure and spontaneous activity in obese subjects in a chamber calorimeter 55, 216A, 1996

The use of n-3 polyunsaturated fatty acidenriched foods in a dietary intervention study of middle-aged men 55, 80A, 1996

Undertaking dietary change: perceptions of ten dietary changes 55, 77A, 1996

Food photography

Food photographs improve estimates of nutrient intake in dietary surveys 55, 205A, 1996

Food preparation

Different techniques of food preparation and cooking: implication for dietary surveys

55, 671, 1996

Free radicals

Differential susceptibility of respiratory chain enzymes and lipids to peroxidation in liver mitochondria: use of compounds generating free radicals within aqueous or hydrophobic regions 55, 94A, 1996

Fructose

Acute augmentation of postprandial lipaemia by fructose 55, 171A, 1996

Fructose transporters

Differential regulation of the fructose transporters GLUT2 and GLUT5 in the intestinal cell line Caco-2 55, 201, 1996

Gastric bypass

Effect of food restriction on protein metabolism in obesity treated by gastric bypass surgery 55, 47A, 1996

33, 47

Gastric emptying

The effect of volume and glucose concentration on the gastric emptying rate of glucose solutions in man 55, 235A, 1996

Gastric lipase

Gastric lipase activity is modulated by dietary fat intake in human subjects 55, 72A, 1996

Gastrointestinal secretion

Control of gastric secretion 55, 251, 1996 Intestinal adaptation to nutritional stress

55, 279, 1996 Molecular control of peptide hormone and

receptor expression 55, 265, 1996
Neural integration of tissue and whole-animal

regulation of digestive secretions

55, 307, 1996

Nutrient-induced secretion and metabolic effects of glucose-dependent insulinotropic polypeptide and glucagon-like peptide-1

55, 291, 1996

Recent aspects of the regulation of intestinal significance as cancer-modulating agents 55, 433, 1996 55, 259, 1996 mucus secretion Glucostatic theory Regulation of gastrointestinal secretion: symposium overview 55, 247, 1996 Carbohydrate balance and body-weight regu-Gene cloning lation 55, 449, 1996 Dietary macronutrients and glucostatic control of Gene cloning: studies of nutritional regulation of 55, 467, 1996 **55,** 575, 1996 feeding gene expression Gene expression Glucostatic control of intake and obesity Elevated expression of the ob (obese) gene in **55,** 485, 1996 white adipose tissue of diabetic (db/db) mice Metabolic and glucostatic control of feeding 55, 497, 1996 55, 28A, 1996 Nutritional regulation of the expression of the ob Glutamine (obese) gene in white adipose tissue of mice A simplified method for compounding glutamine-55, 27A, 1996 enriched total parenteral nutrition (TPN) Glucagon-like peptide 1 mixtures **55,** 197A, 1996 Importance of the colon as a source of circulating Glutaminase (EC 3.5.1.2) and glutamine (EC**55**, 234A, 1996 glucagon-like peptide 1 6.3.1.2) activities in the gastrointestinal tract of **55,** 172A, 1996 Glucocorticoids Glutamine utilization by the healthy rabbit Effect of a maternal diet low in protein on intestinal epithelium, in vitro, using [14C]- and glucocorticoid-sensitive brain enzyme 55, 57A, 1996 activities 55, 45A, 1996 [¹⁵N]glutamine Effect of glucocorticoids on the fatty-acid-Rat serum HDL2-HDL3 compositions are not binding protein (FABP) expression in rat liver affected by the consumption of different gluten **55,** 17A, 1996 Modulation of blood pressure by glucocorticoids intakes whereas lecithin-cholesterol-acylin the rat **55,** 220A, 1996 transferase activity is altered **55,** 64A, 1996 Programming of the hypothalamic-pituitaryadrenal (HPA) axis by the maternal diet in the The influence of glycine on urea-nitrogen salvage 55, 219A, 1996 **55,** 221A, 1996 rat Glucose Glycogen Long-term glucose homeostasis in patients on The effect of Acipimox administration on the contribution of different pathways home parenteral nutrition **55,** 178A, 1996 The effect of age on the utilization of infused postprandial glycogen synthesis in cachectic 55, 170A, 1996 glucose studied using the hyperglycaemic tumour-bearing rats glucose clamp 55, 168A, 1996 The effects of anaesthesia (Halothane & The effect of volume and glucose concentration Chloroform) on postprandial glycogen and lipid synthesis in rats **55,** 167A, 1996 on the gastric emptying rate of glucose solutions in man 55, 235A, 1996 Growth Effect of growth hormone administration on The effects of meal frequency on postprandial plasma glucose tolerance, glucose dependent growth rate and plasma IGF-1 in milk- and polypeptide and insulin solid-fed lambs **55.** 101A. 1996 insulinotropic concentrations 55, 102A, 1996 Weight and length of Glasgow infants compared Glucose transporters with Tanner and Whitehouse standards and new Differential regulation of the fructose transporters British standards for growth 55, 81A, 1996 GLUT2 and GLUT5 in the intestinal cell line Growth hormone **55,** 201, 1996 Caco-2 Regulation of the antilipolytic effect of adenosine Facilitative glucose transporters in ruminants in sheep adipose tissue by growth hormone 55, 221, 1996 55, 26A, 1996 Glucose transporters in obesity **55,** 237, 1996 Guar gum Glucose transporters in the brain 55, 209, 1996 Comparative gastrointestinal responses to guar Hormonal regulation of the insulin-responsive gum and a seaweed polysaccharide (sodium glucose transporter, GLUT4: some recent alginate) in rats 55, 55A, 1996 advances **55,** 179, 1996 Intestinal sodium-dependent D-glucose co-Health education transporter: dietary regulation **55,** 167, 1996 Preferences for approaches to 'healthy eating' Over-expression of GLUT4 selectively in adipose education among South Asian family members tissue in transgenic mice: implications for in Scotland 55, 243A, 1996 nutrient partitioning **55,** 191, 1996 Heart Variations in GLUT4 protein content among bovine adipose tissues 55, 21A, 1996 The relationship between women's birth weight

and their current cardiovascular function

55, 253A, 1996

Glucosinolates in Brassica: occurrence and

Glucosinolates

Hepatocytes

Regulation of ammonia and amino acid metabolism in isolated sheep hepatocytes

55, 39A, 1996
VLDL binding by isolated hepatocytes in rats fed
on animal or vegetable protein diets (100, 200
or 300 g casein or soyabean proteins/kg)

55, 70A, 1996

HIV infection

Measurement of total energy expenditure in patients with human immunodeficiency virus infection using the bicarbonate-urea method 55, 154A, 1996

Hospital nutrition

The management of malnutrition in hospital 55, 855, 1996

Hospital patients

A caterers' perception of feeding patients in hospital 55, 195A, 1996

A comparison between oral and nasogastric nutritional supplements in malnourished patients 55, 145A, 1996

A comparison of pre-operative percutaneous endoscopic gastrostomy feeding with standard management in patients undergoing major head and neck surgery for cancer 55, 191A, 1996

A randomized comparison of percutaneous endoscopic gastrostomy feeding and nasogastric tube feeding following acute dysphagic stroke 55, 147A, 1996

Can nurses identify nutritionally depleted elderly patients? 55, 186A, 1996

Cross-contamination of enteral feeding systems via the luer connector: a preliminary study

55, 201A, 1996

Malnutrition in a Scottish children's hospital 55, 184A, 1996

Nutrition screening of acute in-patients

55, 144A, 1996

Provision of Asian foods in hospital

55, 74A, 1996

Staff use and quality of anthropometric measures in a children's hospital 55, 254A, 1996

Household budget

Integration of nutritional data based on household budget surveys in European countries

55, 699, 1996

House mouse

The physiological basis of dietary preferences in West Midlands behaviourally resistant house mice 55, 223A, 1996

Hypertension

Modulation of blood pressure by glucocorticoids in the rat 55, 220A, 1996

Post-weaning dietary manipulation reduces blood pressure in rats with hypertension of fetal origin 55, 103A, 1996

ICONS

Nutrition information and support for overseas members 55, 619, 1996

IGF-

Effect of growth hormone administration on growth rate and plasma IGF-1 in milk- and solid-fed lambs 55, 101A, 1996

Effects of some alterations in diets for weaned piglets on serum thyroid hormone and IGF-I concentrations 55, 99A, 1996

Ileostomy

Is the ileostomist a good model for studies of starch digestion in man? 55, 50A, 1996

Immune function

A comparison of methods for measuring changes in fat-free mass with the acquired immune deficiency syndrome 55, 153A, 1996

Altered macrophage GTPase activity may not exclusively modify TNF-induced macrophage IL1 or IL6 production 55, 29A, 1996

Cellular and humoral immune responses in soyabean protein fed preruminant calves

55, 97A, 1996 Dietary lipids affect the sensitivity of rat thymic lymphocytes to glucocorticoids

55, 160A, 1996

Effects of fatty acids and dietary lipids on cells of the immune system 55, 127, 1996 Immunomodulatory and anti-inflammatory

effects of *n*-3 polyunsaturated fatty acids

55, 737, 1996

Interactions between adipose tissue and the immune system 55, 111, 1996

India

Body mass index characteristics of elderly slum dwellers in Bombay 55, 141A, 1996

Infants

Selenium content of UK available infant formulas and estimation of the intake of bottle-fed infants 55, 222A, 1996

Transfer of ¹⁵N from urea to the circulating lysine pool in the human infant 55, 37A, 1996 Weight and length of Glasgow infants compared

with Tanner and Whitehouse standards and new British standards for growth 55, 81A, 1996

Inflammation

Effects of fish oil, olive oil and maize oil on the metabolic responses to turpentine-induced inflammation in the rat 55, 159A, 1996
Survival of patients with metastatic colorectal

Survival of patients with metastatic colorectal cancer correlates with indices reflecting the inflammatory response, but not with weight loss 55, 182A, 1996

Insulin

A comparison of insulin-stimulated glucose uptake in isolated adipocytes from different fat deposits. Does glucagon-like peptide 1 enhance uptake? 55, 228A, 1996

Acute effects of high-sucrose v. high-starch diets on insulin sensitivity in healthy volunteers

55, 169A, 1996

Altered insulin response to a glucose load in rats following exposure to a low-protein diet in utero 55, 44A, 1996

Hormonal regulation of the insulin-responsive

glucose transporter, GLUT4: some recent advances 55, 179, 1996 Number and affinity of subcutaneous insulin receptors during growth in Large White and Meishan pigs 55, 66A, 1996

Intensive care patients

Survival of intensive care patients given glutamine-supplemented parenteral nutrition: a double-blind, randomized treatment study

55, 158A, 1996

Intestine

Are radio-opaque pellets suitable markers for upper intestinal transit studies in human volunteers?

55, 250A, 1996
Aspects of gut development
Comparative gastrointestinal responses to guar gum and a seaweed polysaccharide (sodium alginate) in rats

55, 55A, 1996
Comparison of apparent absorption of essential

amino acids from the small intestine and their net flux across the mesenteric and portal drained viscera of lambs 55, 63A, 1996

Comparison of two algal polysaccharides with guar gum and cellulose on bowel habit in healthy human volunteers 55, 238A, 1996

Dietary zinc prevents intestinal dysfunction in malnourished milk-sensitized guinea-pigs

55, 51A, 1996

Digestion of maize starch and native pea starch in the small intestine of pigs 55, 59A, 1996

Glutaminase (EC 3.5.1.2) and glutamine (EC 6.3.1.2) activities in the gastrointestinal tract of humans 55, 172A, 1996

Glutamine utilization by the healthy rabbit intestinal epithelium, *in vitro*, using [¹⁴C]- and [¹⁵N]glutamine 55, 57A, 1996

Intestinal sodium-dependent D-glucose cotransporter: dietary regulation 55, 167, 1996

Production by the intestinal cell line HT29 cl.19A of arachidonic acid 5-lipoxygenase metabolites and their effect on electrogenic chloride secretion 55, 15A, 1996

The effects of riboflavin depletion and repletion on the structure and cytokinetics of the small intestine 55, 96A, 1996

In vitro analysis

The analysis of complex carbohydrates: relevance of values obtained *in vitro* 55, 863, 1996

Iodine

Sources of iodine in the vegan diet

55, 13A, 1996

Iron

Does iron consumption protect against anaemia in pregnancy? 55, 142A, 1996

The quantification of non-transferrin-bound iron in plasma samples from neonates, using high performance liquid chromatography

55, 95A, 1996

Isotope labelling

The use of ¹⁴C-labelled substrates to study plant cell wall breakdown in the gastrointestinal tract 55, 927, 1996

Jejunum

Hyperosmolality of apple juice is not the main factor which promotes water secretion in the intact human jejunum 55, 9A, 1996

Lactose-ureide

Metabolism of lactose-ureide labelled with ¹⁵N and ¹³C in humans 55, 38A, 1996

Leptin

New insights into the development of obesity: obese genes and the leptin system

55, 783, 1996

Leukaemia

Resting metabolic rate and excess weight gain during maintenance chemotherapy for childhood acute lymphoblastic leukaemia

55, 132A, 1996

Linoleic acid

The influence of a modified diet on the activity of the delta-6-desaturase enzyme in men

55, 255A, 1996

Lipid absorption

Adipocyte hormone-sensitive lipase: a major regulator of lipid metabolism 55, 93, 1996 Cellular and molecular aspects of fat metabolism in the small intestine 55, 19, 1996 Chairman's introduction 55, 1, 1996 Disposition of lipids in the postprandial state

55, 79, 1996

Effects of fatty acids and dietary lipids on cells of the immune system 55, 127, 1996 Fatty acids and expression of lipid-related genes

in adipose cells
Interactions between adipose tissue and the immune system

55, 151, 1996
tissue and the 55, 111, 1996

Lipid absorption and hepatic metabolism in ruminants 55, 39, 1996
Regulation of lumen fat digestion: enzymic

aspects 55, 5, 1996

The scientific rationale and clinical application of short-chain fatty acids and medium-chain triacylglycerols 55, 49, 1996

rihias

How the fatty acid composition of previous highfat diets affects lipid absorption in rats

55, 52A, 1996

Lipogenesis

Liver and adipose tissue stearoyl-CoA desaturase activity in the growing Meishan pig

55, 115A, 1996

Lipoprotein lipase

Effects of fasting and refeeding on lipoprotein lipase and GLUT4 gene expression in tissues of lean and genetically obese (ob/ob) mice

55, 19A, 1996

Lipoprotein lipase activity and gene expression in heart and skeletal muscles in the preruminant calf 55, 18A, 1996

Lipoproteins

A specific enzyme-linked immunosorbent assay for the measurement of apolipoprotein B-48 in triacylglycerol-rich lipoproteins **55**, 112A, 1996 Effect of animal or vegetable protein intakes (100, 200 or 300 g casein or soyabean proteins/kg) on VLDL, HDL and apolipoproteins in the rat 55, 106A, 1996

Potentially atherogenic chylomicron remnants are present in the low-density lipoprotein fraction as detected by a specific antibody to apolipoprotein B-48 55, 113A, 1996

Rat serum HDL₂-HDL₃ compositions are not affected by the consumption of different gluten intakes whereas lecithin-cholesterol-acyltransferase activity is altered 55, 64A, 1996

VLDL binding by isolated hepatocytes in rats fed on animal or vegetable protein diets (100, 200 or 300 g casein or soyabean proteins/kg)

55, 70A, 1996

Lithium

First measurements of resting metabolic rate (RMR), diet-induced thermogenesis (DIT) and respiratory quotient (RQ) in lithium-treated patients 55, 127A, 1996

Liver

Differential susceptibility of respiratory chain enzymes and lipids to peroxidation in liver mitochondria: use of compounds generating free radicals within aqueous or hydrophobic regions 55, 94A, 1996

Lipid absorption and hepatic metabolism in ruminants 55, 39, 1996

Nutrition assessment and management of liver transplant patients 55, 199A, 1996 Nutritional assessment and status of liver

transplant candidates 55, 187A, 1996 Sepsis-induced long-lasting stimulation of liver protein synthesis 55, 40A, 1996

The metabolic disposal of [1-13C]ethanol in relation to habitual ethanol consumption in healthy men. 55, 128A, 1996

Lord Boyd Orr Memorial Lecture

'Within a decade no child will go to bed hungry?' 55, 621, 1996

Lung

Lung maturation 55, 529, 1996 Negative energy balance in patients hospitalized

with exacerbation of chronic obstructive lung disease 55, 133A, 1996

Lymph nodes

The organisation of adipose tissue surrounding lymph nodes in guinea-pigs and methods of studying local interactions between adipose and lymphoid tissue 55, 116A, 1996

Lymphocytes

Antioxidant supplementation decreases both endogenous and induced oxidative DNA damage in human lymphocytes 55, 33A, 1996 Lymphocyte function may influence the

inflammatory and metabolic response to tumour necrosis factor and endotoxins in humans 55, 156A, 1996

The effect of dietary fibre upon rat peripheral blood lymphocyte proliferation 55, 161A, 1996

The effect of dietary lipid manipulation upon fuel utilization by rat lymphocytes 55, 117A, 1996

Macronutrients

Dietary macronutrients and glucostatic control of feeding 55, 467, 1996

Macronutrients, appetite and day-to-day food intake in humans 55, 4A, 1996

Report of Macronutrient Metabolism Group Workshop 55, 725, 1996

Malabsorption

Measurement of unabsorbed dietary carbohydrates and their fermentation products following the ingestion of ¹³C carbohydrates in patients with malabsorption syndrome

55, 8A, 1996

Malawi

A comparison of potential energy supply from smallholder production with population's energy requirement in Malawi 55, 130A, 1996

Malaysia

Coronary heart disease mortality in Peninsular Malaysia 55, 138A, 1996

Malnutrition

A caterers' perception of feeding patients in hospital 55, 195A, 1996

Case report: the nutritional management of a man treated for head and neck cancer

55, 188A, 1996 Comparison of weight and height based indices for assessment of the risk of death in severely malnourished children 55, 82A, 1996

Management of malnutrition in the elderly: a clinical audit 55, 175A, 1996

Screening for malnutrition in oncology patients **55,** 181A, 1996

Meal frequency

The effects of meal frequency on postprandial plasma glucose tolerance, glucose dependent insulinotropic polypeptide and insulin concentrations 55, 102A, 1996

Meishan pig

Liver and adipose tissue stearoyl-CoA desaturase activity in the growing Meishan pig

55, 115A, 1996

Menstrual cycle

Intra individual variation in the basal metabolic rate of women: the effect of the menstrual cycle 55, 135A, 1996

Metabolism

Metabolic and glucostatic control of feeding 55, 497, 1996

Methionine

Effect of methionine addition to a high-protein diet on growth and energy utilization in the rat 55, 46A, 1996

Micronutrients

Micronutrient deficiency in a home parenteral nutrition programme 55, 150A, 1996

Milk

Responses in milk constituent secretion to intravascular administration of two mixtures of

992	INDEX OF	30BJEC13 1996
amino acids in dairy cows	55, 100A, 1996	Effects of dietary and non-dietary factors on bone
Molecular biological techniques		metabolism in women 55, 12A, 1996
Chairmen's introduction	55, 573, 1996	Nutrition education
DNA sequencing	55, 605, 1996	Knowledge of nutritional assessment and support
Gene cloning: studies of nutriti		within a teaching hospital 55, 202A, 1996
gene expression	55, 575, 1996	Nutrition in the medical undergraduate
Northern blotting	55, 583, 1996	curriculum 55, 139A, 1996
Polymerase chain reaction	55, 599, 1996	Nutrition policy
Southern blotting	55, 591, 1996	Consumption implications of agri-food policies
Transgenic animals	55, 613, 1996	55, 649, 1996
Monoclonal antibodies	33, 013, 1770	Food and nutrition policy in the Republic of
Administration of an anti-adip	ocyte monoclonal	Ireland: where to from here? 55, 641, 1996
antibody to piglets: effects on adipose tissue		Nutrition policy: priorities for new research
development and lipid conter	nt 55, 23A, 1996	55, 661, 1996
Motor neurone disease	,,	Nutrition Society Medal Lecture
A prospective study of nutrition	nal changes and of	A solution to the problem of predicting the
gastrostomy feeding in moto		response of an animal to its diet
5 , 5	55, 146A, 1996	55, 155, 1996
Mucus	, ,	Nutritional screening
Recent aspects of the regula	tion of intestinal	Screening for nutritional risk 55, 841, 1996
mucus secretion	55, 259, 1996	Nutritional status
Muscle		A comparison between oral and nasogastric nu-
Prediction of limb muscle in me	n over 75 years of	tritional supplements in malnourished patients
age	55, 86A, 1996	55, 145A, 1996
Regulatory factors in the co	ontrol of muscle	Development of a nutritional assessment tool,
development	55, 543, 1996	highlighting practical considerations
The flooding-dose effect on the		55, 190A, 1996
constantly infused tracer leu		Knowledge of nutritional assessment and support
muscle: studies with phenyl		within a teaching hospital 55, 202A, 1996
and arginine	55, 152A, 1996	Nutrition assessment and management of liver
Myoblasts		transplant patients 55, 199A, 1996
A method of transfecting C ₂ C ₁		Nutrition screening of acute in-patients
stages of differentiation	55, 34A, 1996	55 , 144A, 1996
NI 4-1		Nutritional assessment and status of liver
Neonatal nutrition		transplant candidates 55, 187A, 1996
Continuous enteral feeding in contractility in newborn infa		Nutritional problems following stroke: assessment and clinical implications
contractinty in newborn infa	55, 183A, 1996	55, 192A, 1996
Minimal enteral feeding pro-		Nutritional stress
contractility in neonates	55, 148A, 1996	Intestinal adaptation to nutritional stress
The quantification of non-trans		55, 279, 1996
in plasma samples from neo		Nutritional support
performance liquid chromato		The role of antioxidants in nutritional support
1	55, 95A, 1996	55, 945, 1996
Neural pathways	-	. ,
Neural integration of tissue a		Obesity
regulation of digestive secret	tions	Carbohydrate balance and body-weight regu-
	55, 307, 1996	lation 55, 449, 1996
Non-starch polysaccharides		Defects in substrate oxidation involved in the
Comparison of two algal pol		predisposition to obesity 55, 817, 1996
guar gum and cellulose of		Differences in reported macronutrient compo-
healthy human volunteers	55, 238A, 1996	sition of the diet in overweight and lean
Northern blotting		individuals are dependent on validity of
Northern blotting	55, 583, 1996	reported energy intakes 55, 232A, 1996
Nutrient intake		Eating behaviour, food preferences and dietary
An epidemiological investi		intake in relation to obesity and body-weight
influence of diet on bone ma	ss 55, 10A, 1996	status 55, 803, 1996
Consumption of cakes, biscuits		Effect of food restriction on protein metabolism
by British schoolchildren:	55, 121A, 1996	in obesity treated by gastric bypass surgery
nutrient intakes Dietary restraint and nutrient	, ,	55, 47A, 1996 Effects of fasting and refeeding on lipoprotein
lescents	55, 217A, 1996	lipase and GLUT4 gene expression in tissues of
icoconto	55, 211M, 1770	npase and ODO 14 gene expression in assues of

lean and genetically obese (ob/ob) mice 55, 19A, 1996 Glucose transporters in obesity 55, 237, 1996 Glucostatic control of intake and obesity **55,** 485, 1996 Identifying the possible causes of maternal 55, 231A, 1996 New insights into the development of obesity: obese genes and the leptin system **55,** 783, 1996 Non-diet and diet programmes for overweight: effects on mood, lifestyle and health 55, 214A, 1996 Postprandial exogenous lipid oxidation in obese and normal-weight women 55, 225A, 1996 Resting metabolic rate and excess weight gain during maintenance chemotherapy childhood acute lymphoblastic leukaemia 55, 132A, 1996 The role of altered sympathetic nervous system activity in the pathogenesis of obesity 55, 793, 1996 The role of lifestyle in health: the epidemiology and consequences of inactivity 55, 829, 1996 Total energy expenditure, basal metabolic rate and activity plus thermogenesis before and after elective vertical band gastroplasty in 55, 206A, 1996 obese females Use of the waist:height ratio to assess the risks of

subjects Overseas members

obesity

Nutrition information and support for overseas members 55, 619, 1996

Weight loss and factor VIIc activity in overweight

Oxidized lipids

Oxidized lipids in food 55, 246A, 1996

5-Oxoproline

Nitrogen or protein intake and urinary 5oxoproline excretion in adults 55, 68A, 1996

Palm oil

The influence of palm oil and palm-oil fractions on protein utilization in the rat

55, 165A, 1996

55, 83A, 1996

55, 137A, 1996

Palmitic acid

Detection of enriched [1-¹³C]palmitic acid in human stool samples by gas chromatography-isotope ratio mass spectrometry

55, 111A, 1996

The gastrointestinal handling and metabolic disposal of [1-¹³C]palmitic acid in normal, healthy children 55, 6A, 1996

The gastrointestinal handling and metabolic disposal of [1-13C]palmitic acid in patients with cystic fibrosis 55, 5A, 1996

Pancreas

The stability of mRNA encoding some pancreatic hydrolases is modulated by dietary protein intake in the rat 55, 35A, 1996

Parenteral nutrition

A cost utility analysis of home parenteral nutrition 55, 177A, 1996

A simplified method for compounding glutamineenriched total parenteral nutrition (TPN) mixtures 55, 197A, 1996

Assessment of compatibility of a Paediatric Trace Element injection in a range of total parenteral nutrition mixtures 55, 198A, 1996

Comparison of constant infusion and flooding methods for measuring muscle protein synthesis: effect of conventional total parenteral nutrition 55, 151A, 1996

Long-term glucose homeostasis in patients on home parenteral nutrition 55, 178A, 1996

Micronutrient deficiency in a home parenteral nutrition programme 55, 150A, 1996 Nights of bright lights and noisy pumps: home

parenteral feeding 55, 149A, 1996

Recent trends towards reducing energy prescription in parenteral nutrition patients: implications for clinical practice

55, 179A, 1996 Survival of intensive care patients given glutamine-supplemented parenteral nutrition: a double-blind, randomized treatment study 55, 158A, 1996

The oxygen content of parenteral nutrition admixtures prepared by different methods

55, 196A, 1996 Penaeus vannamei

Adjustment of the expression of digestive enzymes to casein level in food in *Penaeus vannamei* (Crustacea, Decapoda)

55, 14A, 1996

Peptide hormones

Molecular control of peptide hormone and receptor expression 55, 265, 1996
Nutrient-induced secretion and metabolic effects of glucose-dependent insulinotropic polypeptide and glucagon-like peptide-1 55, 291, 1996

Peptides

Application of a new method for the measurement of circulating peptides 55, 36A, 1996
Peptide breakdown by rumen microorganisms is sensitive to inhibition by 1,10-phenanthroline 55, 237A, 1996

Physico-chemical properties

A physico-chemical perspective of plant polysaccharides in relation to glucose absorption, insulin secretion and the enteroinsular axis 55, 881, 1996

Phyto-oestrogens

Physiological effects of phyto-oestrogens in relation to cancer and other human health risks 55, 399, 1996

Placenta

Are high fetal vitamin C concentrations due to placental synthesis? 55, 90A, 1996

Placental transfer of fatty acids from the maternal to the fetal circulation studied in the perfused human placenta 55, 114A, 1996

Plant foods

Epidemiological evidence on potential health properties of flavonoids 55, 385, 1996

Glucosinolates in Brassica: occurrence and significance as cancer-modulating agents
55, 433, 1996
Physiological effects of phyto-oestrogens in relation to cancer and other human health risks
55, 399, 1996
Physiologically-active compounds in plants: an overview
55, 371, 1996
Polyamines in human health
55, 419, 1996

Plasma

Acute augmentation of postprandial lipaemia by fructose 55, 171A, 1996

Animal or vegetable protein intakes (100, 200 or 300 g casein or soyabean proteins/kg) differentially alter plasma distribution of cholesterol and triacylglycerols in rats

55, 105A, 1996

Rapid entry of dietary fatty acids into the plasma non-esterified fatty acid pool 55, 162A, 1996

Plate model

Changing dietary intake: a plate model approach 55, 76A, 1996

Polyamines

Polyamines in human health 55, 419, 1996

Polymerase chain reaction

Polymerase chain reaction 55, 599, 1996

Polyunsaturated fatty acids

Effects of eicosapentaenoic acid and docosahexaenoic acid alone or in combination on plasma lipids and hepatic fatty acid oxidation in rats fed on high-fat diets

55, 108A, 1996

Effects of n-3 polyunsaturated fatty acids on lipid storage-related enzymes in adipose tissue of sucrose-fed insulin resistant rats

55, 73A, 1996
Involvement of brown adipose tissue in the limiting effect of n-3 polyunsaturated fatty acids on obesity induced by a high fat diet in the rat

55, 109A, 1996

Limitation of the hypertrophy of adipose tissues by fish-oil n-3 fatty acids during high-fat feeding in the rat: eicosapentaenoic acid v. docosahexaenoic acid 55, 107A, 1996

The use of n-3 polyunsaturated fatty acidenriched foods in a dietary intervention study of middle-aged men 55, 80A, 1996

Portal vein

Portal appearance of glucose and amino acids in the pig after feeding maize starch and native pea starch 55, 60A, 1996

Postprandial metabolism

Modulating influence of alcohol and aspirin on postprandial lipaemia and factor VIIc in male subjects 55, 226A, 1996

Postprandial exogenous lipid oxidation in obese and normal-weight women 55, 225A, 1996

Postprandial state

Disposition of lipids in the postprandial state 55, 79, 1996

Pregnancy

Does iron consumption protect against anaemia in

pregnancy? 55, 142A, 1996
Identifying the possible causes of maternal obesity 55, 231A, 1996

Long-term effects of restriction of dietary protein during pregnancy and/or lactation on the growth of the organs of the gastrointestinal tract 55, 174A, 1996

Programming of the hypothalamic-pituitaryadrenal (HPA) axis by the maternal diet in the rat 55, 221A, 1996

The requirement for protein during pregnancy 55, 210A, 1996

Urea kinetics in healthy pregnant women eating habitual and 60 g protein diets 55, 67A, 1996

Prematurity

Superoxide dismutase activity in sixty nine premature babies from birth over the first week of life 55, 91A, 1996

Preruminants

Lipoprotein lipase activity and gene expression in heart and skeletal muscles in the preruminant calf 55, 18A, 1996

Propionate

Concentrations of serum cortisol, insulin and glucagon in young calves before and after receiving propionate orally 55, 98A, 1996

Protein digestion

Modulated role of proteolytic enzymes in the digestion of food proteins 55, 56A, 1996

Protein intake

Altered insulin response to a glucose load in rats following exposure to a low-protein diet in utero 55, 44A, 1996

Animal or vegetable protein intakes (100, 200 or 300 g casein or soyabean proteins/kg) differentially alter plasma distribution of cholesterol and triacylglycerols in rats

55, 105A, 1996

Effect of a maternal diet low in protein on glucocorticoid-sensitive brain enzyme activities 55, 45A, 1996

Effect of animal or vegetable protein intakes (100, 200 or 300 g casein or soyabean proteins/kg) on VLDL, HDL and apolipoproteins in the rat 55, 106A, 1996

Effect of methionine addition to a high-protein diet on growth and energy utilization in the rat 55, 46A, 1996

Long-term effects of restriction of dietary protein during pregnancy and/or lactation on the growth of the organs of the gastrointestinal tract 55, 174A, 1996

Nitrogen or protein intake and urinary 5oxoproline excretion in adults 55, 68A, 1996
The stability of mRNA encoding some parcreatic

The stability of mRNA encoding some pancreatic hydrolases is modulated by dietary protein intake in the rat 55, 35A, 1996

Protein requirement

The requirement for protein during pregnancy 55, 210A, 1996

Protein synthesis

Comparison of constant infusion and flooding

methods for measuring muscle protein synthesis: effect of conventional total parenteral nutrition 55, 151A, 1996

The effect of inhibiting gluconeogenesis on protein synthesis in cachectic tumour-bearing rats 55, 155A, 1996

Protein utilization

Factors influencing postprandial protein utilization in adults and the elderly 55, 69A, 1996
The influence of palm oil and palm-oil fractions on protein utilization in the rat

55, 165A, 1996

Radio-opaque markers

Are radio-opaque pellets suitable markers for upper intestinal transit studies in human volunteers? 55, 250A, 1996

Republic of Ireland

Food and nutrition policy in the Republic of Ireland: where to from here? 55, 641, 1996
Nutrition surveillance in Ireland 55, 689, 1996

Research priorities

Nutrition policy: priorities for new research 55, 661, 1996

Riboflavin

The effects of riboflavin depletion and repletion on the structure and cytokinetics of the small intestine 55, 96A, 1996

Rumen

Peptide breakdown by rumen microorganisms is sensitive to inhibition by 1,10-phenanthroline 55, 237A, 1996

Ruminants

Facilitative glucose transporters in ruminants 55, 221, 1996

Saliva

A comparison of saliva and plasma ascorbic acid 55, 87A, 1996

Scotland

Daily and seasonal variation in phylloquinone (vitamin K₁) intake in Scotland

55, 244A, 1996

Factors influencing final consumption of fruit and vegetables in Scotland: some preliminary results 55, 119A, 1996

Preferences for approaches to 'healthy eating' education among South Asian family members in Scotland 55, 243A, 1996

Selenium

Control of selenoprotein synthesis during selenium repletion of selenium-deficient rats

55, 31A, 1996
Selenium content of UK available infant formulas
and estimation of the intake of bottle-fed
infants 55, 222A, 1996

Thyroid selenoenzyme activity and mRNA abundance in second generation selenium and iodine deficient rats 55, 32A, 1996

Sepsis

Sepsis-induced long-lasting stimulation of liver protein synthesis 55, 40A, 1996

The effect of ascorbic loading on ascorbyl radical formation in patients with sepsis and healthy subjects 55, 89A, 1996

Serum

Concentrations of serum cortisol, insulin and glucagon in young calves before and after receiving propionate orally 55, 98A, 1996
Postprandial serum promoted cholesterol efflux depends on fatty acid composition of the oral

The effect of varying *n*-6:*n*-3 fatty acid ratio of the diet upon blood lipid concentrations in the rat 55, 166A, 1996

Sir David Cuthbertson Medal Lecture

Immunomodulatory and anti-inflammatory effects of n-3 polyunsaturated fatty acids

55, 737, 1996

55, 71A, 1996

Small intestine

Cellular and molecular aspects of fat metabolism in the small intestine 55, 19, 1996

Smoking

Erythrocyte lipid peroxidation in smokers compared with non-smokers: dose response of vitamin E supplementation 55, 92A, 1996

Plasma concentrations of carotenoids and antioxidant vitamins in smokers and non-smokers 55, 93A, 1996

Southern blotting

Southern blotting

55, 591, 1996

Soyabean

Cellular and humoral immune responses in soyabean protein fed preruminant calves

55, 97A, 1996

Splanchnic metabolism

Inter-animal variability in the energy expenditure of splanchnic tissues in preruminant calves 55, 61A, 1996

Stable isotopes

Measurement of stable isotope [13C]ascorbate using gas chromatography with mass spectrometry (GCMS) 55, 88A, 1996

Starch

Comparisons of metabolic responses to digestible and partly indigestible starches in healthy humans 55, 7A, 1996

Digestion of maize starch and native pea starch in the small intestine of pigs 55, 59A, 1996 Is the ileostomist a good model for studies of starch digestion in man? 55, 50A, 1996

Portal appearance of glucose and amino acids in the pig after feeding maize starch and native pea starch 55, 60A, 1996

Stomach

Control of gastric secretion 55, 251, 1996

Stratford Executive Group

Nutrition in the undergraduate medical curriculum 55, 775, 1996

Stroke patients

Nutritional problems following stroke: assessment and clinical implications

55, 192A, 1996

Substrate oxidation

Defects in substrate oxidation involved in the predisposition to obesity 55, 817, 1996

Substrate utilization

The effects of ambient temperature on substrate utilization during prolonged moderate intensity exercise in man 55, 131A, 1996

Sucrose

Response to weight-reducing diets including and excluding sucrose as a sweetener

55, 125A, 1996

The effect of sucrose- and aspartame-sweetened drinks on energy intake, hunger and food choice of female, slightly restrained eaters

55, 124A, 1996

Sugars

A preliminary comparison of the frequency of sugar intake by 8-14 year old children in Tristan da Cunha and a region of Scotland

55, 242A, 1996 Effect of reduced-fat and reduced-sugar food use on diet and weight status of free-living consumers 55, 215A, 1996

Low sugar intakes are associated with high body mass index in the Dietary and Nutritional Survey of British Adults 55, 123A, 1996

Superoxide dismutase

Superoxide dismutase activity in sixty nine premature babies from birth over the first week of life 55, 91A, 1996

Sympathetic nervous system

The role of altered sympathetic nervous system activity in the pathogenesis of obesity

55, 793, 1996

Taurine

Taurine metabolism in cats fed on commercial canned or dry foods 55, 65A, 1996

The Netherlands

Nutrition assessment and dietary guidelines: experience from the Dutch Nutrition Surveillance System 55, 705, 1996

Thrombosis

A prospective evaluation of central venous blood flow using Doppler ultrasound in patients with long-term central venous catheters

55, 208A, 1996

Thyroid

Control of selenoprotein synthesis during selenium repletion of selenium-deficient rats

55, 31A, 1996

Effects of some alterations in diets for weaned piglets on serum thyroid hormone and IGF-I concentrations 55, 99A, 1996

Thyroid selenoenzyme activity and mRNA abundance in second generation selenium and iodine deficient rats 55, 32A, 1996

Thyroid hormones

The influence of triidothyronine and/or noradrenaline on perirenal adipose tissue composition in lambs delivered near to term by Caesarean section 55, 118A, 1996

Tissue differentiation

Zinc deficiency inhibits the differentiation of F9 embryonal carcinoma cells 55, 30A, 1996

Trans fatty acids

Nutrient sources of *trans* fatty acids in the Scottish population (1984–1986)

55, 212A, 1996

Transfection

A method of transfecting C₂C₁₂ myoblasts at all stages of differentiation 55, 34A, 1996

Transgenic animals Transgenic animals

55, 613, 1996

Tumour necrosis factor

Impairment of interleukin-2 production and increased spontaneous tumour necrosis factor production by peripheral blood mononuclear cells may facilitate an exaggerated response to circulating endotoxins in humans

Lymphocyte function may influence the inflammatory and metabolic response to tumour necrosis factor and endotoxins in humans 55, 156A, 1996

Undergraduate medical curriculum

Nutrition in the medical undergraduate curriculum 55, 139A, 1996
Nutrition in the undergraduate medical curriculum 55, 775, 1996

Urea

Estimation of the enrichment of urea N precursors 55, 42A, 1996

Metabolism of lactose-ureide labelled with ¹⁵N and ¹³C in humans 55, 38A, 1996
The influence of glycine on urea-nitrogen salvage 55, 219A, 1996

The influence of sulphur amino acids on ureanitrogen salvage 55, 43A, 1996 Transfer of ¹⁵N from urea to the circulating lysine

Transfer of ¹⁵N from urea to the circulating lysine pool in the human infant 55, 37A, 1996 Urea kinetics in healthy pregnant women eating habitual and 60 g protein diets 55, 67A, 1996

Vegans

Sources of iodine in the vegan diet

55, 13A, 1996

Vitamin C

Are high fetal vitamin C concentrations due to placental synthesis? 55, 90A, 1996

Vitamin E

Erythrocyte lipid peroxidation in smokers compared with non-smokers: dose response of vitamin E supplementation 55, 92A, 1996

Vitamin K

Daily and seasonal variation in phylloquinone (vitamin K₁) intake in Scotland

55, 244A, 1996

Volatile fatty acids

Volatile fatty acid absorption and water flux in the rumen of sheep in relation to the volatile fatty acid supply 55, 62A, 1996

Voluntary intake

Does the histamine receptor antagonist, cyproheptadine increase voluntary food intake? 55, 252A, 1996

von Willebrand's factor

Influence of variation in dietary fatty acid composition on von Willebrand's factor concentration in healthy men 55, 164A, 1996

Water

Volatile fatty acid absorption and water flux in the rumen of sheep in relation to the volatile fatty acid supply 55, 62A, 1996

Weaning

Post-weaning dietary manipulation reduces blood pressure in rats with hypertension of fetal origin 55, 103A, 1996

The effect of feeding and weaning practice on growth and nutritional status of Glasgow boys and girls in the first year of life

55, 247A, 1996

The effect of weaning practice on fermentation capacity in breast-fed babies 55, 48A, 1996

Weight loss

Non-diet and diet programmes for overweight: effects on mood, lifestyle and health

health 55, 214A, 1996

Response to weight-reducing diets including and excluding sucrose as a sweetener

55, 125A, 1996

Weight loss and factor VIIc activity in overweight subjects 55, 137A, 1996

Zinc

Dietary zinc prevents intestinal dysfunction in malnourished milk-sensitized guinea-pigs

55, 51A, 1996

Zinc deficiency inhibits the differentiation of F9 embryonal carcinoma cells 55, 30A, 1996