Subject Index
Volume 63

Absorptiometry, dual-energy. See Dual-energy X-ray absorptiometry
Absorption. See Intestinal absorption
Aceruloplasminemia, 836S
Acetate, calcium absorption from distal colon and, 574
Achievement motivation, iodine deficiency and, 782
Adaptation, efficiency of calcium absorption during inadequate calcium intake in adolescent girls, 579
Adhesion molecules, monocyte expression, fish oil supplementation and, 267
Adolescence
calium intake and magnesium balance in females, 950
efficiency of calcium absorption during inadequate calcium intake in adolescent girls, 579
healthy weight in, 409S
overweight
body mass index screening for adiposity, 500
morbidty and mortality, 445S
Age/aging
accuracy and precision of food intake assessment methods, 491
biochemical indexes of vitamin K status, 566
body composition and bone mineral content in elderly population, 365
B vitamins, homocysteine, and cognitive performance, 306
Alcoholic liver disease
cirrhosis, malnutrition in, 602
cytokines and, 373
Alcohol ingestion
hyperphagic effect of high-fat diet and alcohol intake, 479
red wine, LDL oxidation, and antioxidants, 329
white wine, LDL oxidation, and antioxidants (letter), 403
Alcoholism
cytokines in obese alcoholics, 373
hyperhomocysteinemia in, folate, vitamin B-12, and vitamin B-6 status and, 220
Allergens, in genetically engineered plants, 651S
ALS. See Amyotrophic lateral sclerosis
Alveolar macrophage, phospholipids, modification of PUFA composition by continuous enteral feeding of n-3 fatty acids (rat), 208
American Health Foundation, Roundtable on Healthy Weight, 409S. See also Healthy weight recommendations, 474S
Amino acids. See also specific amino acids
dietary, copper bioavailability and, 821S
digestion and absorption in small intestine, effect of soy fiber supplement-ation, 584
indispensable, phenylalanine kinetics, 532
plasma, postprandial, Mexican diet, 335
Ammonia, fecal, resistant starch and, 766
Amyotrophic lateral sclerosis, nutritional status, 130
Androstenedione, plasma, low resting metabolic rate and obesity and, 879
Anemia
copper deficiency and, 791S, 797S
iron deficiency, in pregnancy, 884
Anthropometry
anthropometric measures to predict body composition by densitometry, 4
body-composition measurement in children, 287
impact of hemodialysis, 80
screening for nutrition interventions, 671
stunting and wasting in Filipino children, risk factor assessment, 966
vitamin A supplementation and child growth in Ghana, 773
Antibody(ies), in genetically engineered infant formulas, 646S
Antioxidants
nutritional status, in cystic fibrosis (letter), 138
oxidative damage and defense, 985S
plasma
cigarette smoke and, 559
in critically ill, vitamin C status, 760
red wine consumption and, 329
Apolipoprotein(s), apo E
diet-lipid associations and, 87
phenotype, influence on serum lipoprotein(a) in infants, 386
Appetite
hyperphagic effect of high-fat diet and alcohol intake, 479
sucrose polyester intake and, 891
Arachidonic acid, plasma, preterm infants, docosahexaenoic acid vs. lin-olenic acid supplementation, 687
Ascorbic acid
copper bioavailability and, 821S
immune response and, 994S
oxidative damage and defense, 985S
plasma, in critically ill, 760
Atherosclerosis, copper metabolism in, 797S
Bayley Mental Developmental Index, fatty acids and, 997S
Behavior, influence of lifetime behaviors on bone density, 72
Bifidobacteria, fecal, dietary fructooligosaccharide supplementation and, 709
Bioelectrical impedance analysis (BIA)
body-composition measurement in children, 287
impact of hemodialysis, 80
multicompartmenal models for calculating body composition, 856
Bioelectrical resistance, body-composition measurement in children, accu-racy of, 299
Blood glucose
in obese older women, diet and exercise and, 225
response to dietary fats, in non-insulin-dependent diabetes mellitus, 249
Blood pressure
body weight and, 423S
effect of National Cholesterol Education Program Step 2 diet, 234
Body build, healthy body weight and, 412S
Body composition
anthropometric measures to predict body composition by densitometry, 4
assessment, impact of hemodialysis, 80
bone density in mother-daughter pairs, behavioral vs. genetic influences, 72

bone mineral content and, in elderly population, 365
calculation, multicompartiment models (equations), 856
in children, dietary fat intake and, 507
chromium supplementation and resistance (weight) training and, 954
effects of increased physical activity, 456S
geriatric population, urinary creatinine, 151
measurement in children
accuracy of techniques, 299
comparison of techniques, 287
neonate, dual-energy X-ray absorptiometry, 157
Body fat. See also Fat mass
anthropometric measures to predict body composition by densitometry,
4
distribution
anthropometric measures to predict body composition by densitomet-
try, 4
in non-insulin-dependent diabetes mellitus, effects of high-carbohy-
drate, low-fat diet vs. modified-fat diet, 254
risk for breast and endometrial cancers, 437S
multicompartimental models for calculating body composition, 856
neonate, dual-energy X-ray absorptiometry, 157
Body mass index (BMI), 412S
anthropometric measures to predict body composition by densitometry,
4
healthy weight, 448S
in non-insulin-dependent diabetes mellitus, 426S
osteoporosis and, 433S
risk for breast and endometrial cancers, 437S
screening for adiposity in children and adolescents, sensitivity and
specificity, 500
Body water
multicompartimental models for calculating body composition, 856
total, changes induced by strength training in postmenopausal women,
sensitivity of body-composition assessment techniques, 678
Body weight. See also Weight loss
blood pressure regulation and, 423S
cancer risk
breast and endometrial cancers, 437S
colon cancer, 442S
cardiovascular disease and, 419S
healthy. See Healthy weight
non-insulin-dependent diabetes mellitus and, 426S
osteoarthritis and, 430S
osteoporosis and, 433S
social and economic effects in United States, 466S
Bone abnormalities. See also Osteoporosis
copper deficiency and, 791S
Bone density
dual-energy X-ray absorptiometry, 80
in mother-daughter pairs, influence of lifetime behaviors, 72
osteoporosis and, 433S
Bone mass, dual-energy X-ray absorptiometry, validation of whole-body
composition measures in pediatric body weight range, 293
Bone mineral content
body composition and, in elderly population, 365
multicompartimental models for calculating body composition, 856
neonate, dual-energy X-ray absorptiometry, 157
Bone mineral density. See also Bone density
determinants, 433S
Book reviews
Advanced Nutrition: Macronutrients, CD Berdanier, 141
Child Health, Nutrition, and Physical Activity, LWY Cheung (ed.), 615
Childhood Nutrition, F Lifshitz (ed.), 979
Damaged Brain of Iodine Deficiency, JB Stambary (ed.), 615
789
Eat Not This Flesh: Food Avoidances From Prehistory to the Present
(2nd ed), FJ Simoons, 616
Glick & LZ Rubenstein, 406
Human Energetics in Biological Anthropology, SJ Uljiaszek, 141
Human Variability and Plasticity—Cambridge Studies in Biological An-
thropology, CGN Mascii-Taylor & B Bogin (eds.), 616
Nutrition: Essentials and Diet Therapy, NJ Peckenpaugh & CM Pole-
man, 283
Nutrition for the Hospitalized Patient: Basic Science and Principles of
Practice, MH Torosian (ed.), 618
Nutrition Guidelines, A Abelos (ed.), 617
Practical Handbook of Nutrition in Clinical Practice, DF Kirby & SJ
Dudrick (eds.), 979
Quality and Accessibility of Food-Related Data, H Greenfield (ed.), 789
Sports Nutrition: Minerals and Electrolytes, CV Kies & JA Driskell
(eds.), 142
Vitamin Pushers: How the Health Food Industry Is Selling America a
Bill of Goods, S Barrett & V Herbert, 406
Borage oil, enteral feeding, modification of lung and liver macrophage
phospholipid fatty acid content, 208
Breast cancer
healthy weight in, 409S
risk, body weight and, 437S
Bronchopulmonary dysplasia, in premature infants
predictive value of intramuscular relative dose-response test, 123
visual acuity and, 687
Calcium
absorption
effect of acetate and butyrate, 574
during inadequate calcium intake in adolescent girls, 579
during lactation and after weaning, 526
bioavailability, calcium supplements, 354
dietary intake
in adolescent girls, magnesium balance and, 950
in amyotrophic lateral sclerosis, 130
inadequate, efficiency of calcium absorption in adolescent girls, 579
influence of lifetime behaviors on bone density in mother-daughter
pairs, 72
low-fat diet and, 67
supplementation, bioavailability, 354
urinary excretion, sodium intake and, 735
Calcium carbonate, calcium bioavailability, 354
Cancer. See also specific organs
copper metabolism in, 797S
Canola oil, monounsaturated fat intake and lipoprotein lipid profile in
Antarctic Expedition members, 933
Carbohydrate(s)
dietary, copper bioavailability and, 821S
digestion and absorption in small intestine, effect of soy fiber supple-
mentation, 584
glycemic index, influence on insulin action and muscle substrates, 47
in low-energy diet, weight loss and, 174
γ-Carboxyglutamic acid (Gla)-creatinine excretion ratio, urinary, vitamin
K status, 566
Cardiovascular disease
healthy weight in, 409S
overweight and, 419S
risk factors, in obese older women, diet and exercise and, 225
Cardiovascular function, n–3 polyunsaturated fatty acids and, 991S
Carnitine, urinary excretion, choline/pantothenate supplementation and,
904
β-Carotene
all-trans, bioavailability, 729
immune response and, 594S
oxidative damage and defense, 985S
supplementation, carotenoid and tocopherol concentrations in plasma
and blood cells, 553
Carotenoids
plasma, cigarette smoke and, 559
in plasma and blood cells, β-carotene supplementation and, 553
Casein
ejunal digestion, 546
mammary gland-specific gene expression (rat), 627S
Cephalic phase response, oronasal sensory stimulation with fats, 911
Ceruloplasmin
hepatic copper homeostasis, 812S
plasma, copper depletion and, 358
Children. See Pediatric population
cholesterol
low-density-lipoprotein (LDL)
effect of fat-modified dairy products, 42
dietary saturated fatty acid intake and, 897
monounsaturated fat intake and, 933
Choline, supplementation, carnitine status and, 904
Chromium, supplementation, resistance (weight) training plus, effects on body composition, strength, and trace mineral status, 954
Chylomicron(s), triacylglycerols, response to dietary fatty acids, 36
Cigarette smoke. See Smoking
Cirrhosis
Indian childhood cirrhosis, copper in, 830S
malnutrition in, 602
non-Indian (idiopathic) childhood cirrhosis, 842S
Clothing factor VIII, copper depletion and, 358
Cobalamin deficiency. See also Vitamin B-12
kinetics of total plasma homocysteine in, 194
Cognitive performance
nutritional status and, 997S
relations of vitamin B-12, vitamin B-6, folate, and homocysteine to, 306
Colon
distal, calcium absorption, effect of acetate and butyrate, 574
protein metabolism, resistant starch and, 766
Colon cancer, risk, body weight and, 442S
Communication, current knowledge on adverse health consequences, communications challenges and opportunities, 470S
Composite response element, mammary gland expression of milk protein-based transgenes (rat), 627S
Consumer acceptance, bioengineered food products, 657S
Copper
absorption, 821S
acceptable daily intake, 846S
bioavailability, 821S
cytotoxicity, 812S
dietary sources, 791S, 797S
as essential nutrient, 791S
hepatic storage and transport, 812S
in Indian childhood cirrhosis, 830S
metabolic tolerance limits, 846S
metabolism, 797S
molecular biology, 797S
nutritional biochemistry, 797S
nutritional status, 821S
chromium supplementation and resistance (weight) training and, 954
recommendations and regulations, 846S
requirements, 846S
toxicity and toxicosis, 797S, 830S, 846S. See also Menkes syndrome; Wilson disease
genetic and molecular basis, 836S
idiopathic toxicosis, 842S
Copper-binding proteins, 797S
Copper deficiency, 791S
response of copper-status indicators, 358
Coronary artery disease, severity, vitamin E concentrations in serum and LDL and, 377
Creatinine, urinary excretion
body composition in elderly population, 151
total-body skeletal muscle mass, 863
Critical care patients, plasma total vitamin C, ascorbic acid, and dehydroascorbic acid in, 760
Crohn’s disease, dietary change and, in Japan, 741
Culture studies, linoleic acid and nuclear transcription factor-kB activation in cultured endothelial cells, 322
Cysteine, plasma, in HIV infection, 242
Cystic fibrosis
antioxidant status in (letter), 138
linoleic acid intake and growth in infants, 746
response to single dose of oral vitamin E, 717
vitamin E supplementation, RRR-α-tocopherol vs. all-rac-α-tocopherol acetate, 722
Cytochrome c oxidase, platelet, copper depletion and, 358
Cytokine(s)
in genetically engineered infant formulas, 646S
in obese alcoholics, 373
synthesis, dietary n-3 polyunsaturated fatty acids and, 116
Cytotoxicity, copper-induced, 812S
Dairy products, fatty acids, modification via feedlot technology, plasma cholesterol effect in humans, 42
Dehydroascorbic acid, plasma, in critically ill, 760
Dehydroretinol response. See Modified-relative-dose-response (MRDR) test
Depression, in obesity, consequences of weight loss, 461S
Diabetes mellitus
healthy weight in, 409S
non-insulin-dependent (NIDDM)
body fat distribution, effects of high-carbohydrate, low-fat diet vs. modified-fat diet, 254
body weight and, 426S
dietary fats and glycemic responses in, 249
high-ketogenic very-low-energy diet in, 110
RRR-α-tocopherol supplementation, LDL oxidizability and, 753
Diet
body fat distribution in non-insulin-dependent diabetes mellitus, effects of high-carbohydrate, low-fat diet vs. modified-fat diet, 254
composition, glycemia reduction in obese patients with non-insulin-dependent diabetes mellitus on very-low-energy diets, 110
high-fat, hyperphagic effect of high-fat diet and alcohol intake, 479
low-energy, nutrient composition and weight loss, 174
low-fat, calcium intake and, 67
Mexican, plasma amino acid profile, 335
National Cholesterol Education Program Step 2 diet, effect on plasma lipoproteins and blood pressure, 234
in obese older women, cardiovascular disease risk factors and, 225
serum lipids and, influence of apolipoprotein E polymorphism, 87
sex hormone-binding globulin levels and, 22
very-low-energy, in obese patients with non-insulin-dependent diabetes mellitus, 110
Dietary change, Crohn’s disease in Japan and, 741
Dietary intervention
cholesterol-lowering diet and serum lipoprotein(a) in infants, 386
monounsaturated fat intake and lipoprotein lipid profile in Antarctic Expedition members, 933
Differential-benefit approach, screening for nutrition interventions, 671
Docosahexaenoic acid (22:6n-3)
dietary, immunologic effects (monkey), 273
phospholipid content in plasma and erythrocytes, dietary n-3 PUFAs supplementation and, 925
supplementation, effect on visual acuity and growth of preterm infants with/b utanbronchopulmonary dysplasia, 687
Doubly labeled water, energy expenditure
correlation with energy intakes from food records, 483
correlation with food intake assessment methods, 491
in smokers and nonsmokers, 15
Drinking water
copper concentration, 791S
safety limit, 846S
iron fortification (letter), 612
Dual-energy X-ray absorptiometry
body composition and bone mineral content in elderly population, 365
body-composition measurement in children, 287, 299
body fat distribution in non-insulin-dependent diabetes mellitus, effects of high-carbohydrate, low-fat diet vs. modified-fat diet, 254
bone density in mother-daughter pairs, 72
impact of hemodialysis, 80
infant body composition, 157
multicompartimental models for calculating body composition, 856
validation of whole-body composition measurements in pediatric body weight range, 293
Dunaliella bardawil, stereoisomer β-carotene mixture, bioavailability, 729
Economic issues, health expenditures for obesity, 466S
Editorial, with appreciation, 1
Education
bioengineered food products, 657S
current knowledge on adverse health consequences, communications challenges and opportunities, 470S
Eicosapentaenoic acid (EPA; 20:5n-3)
dietary, immunologic effects (monkey), 273
monocyte content, cytokine synthesis and, 116
phospholipid content in plasma and erythrocytes, dietary n-3 PUFA supplementation and, 925
Endometrial cancer
healthy weight in, 409S
risk, body weight and, 437S
Endothelial dysfunction, linoleic acid and nuclear transcription factor-κB activation, 322
Energy balance, urban Colombian women, heart rate monitoring vs. factorial methods, 870
Energy cost of activity, urban Colombian women, heart rate monitoring vs. factorial methods, 870
Energy expenditure
correlation with food intake assessment methods, 491
in intervention-trial subjects, correlation with energy intakes from food records, 483
smokers vs. nonsmokers, 15
thermic effect of food, 164
total, basal metabolic rate and (letter), 281
urban Colombian women, heart rate vs. factorial methods, 870
Energy intake
accuracy and precision of food intake assessment methods, 491
in amyotrophic lateral sclerosis, 130
energy intakes of intervention-trial subjects, accuracy of estimates from food records, 483
hyperbolic effect of high-fat diet and alcohol intake, 479
sucrose polyester intake and, 891
Energy malnutrition, in cirrhosis, 602
Erratum, 407, 609
Erythrocyte(s)
carotenoid and tocopherol concentrations, β-carotene supplementation and, 553
glutathione peroxidase activity, copper depletion and, 358
insulin binding, dietary fructooligosaccharide intake and, 939
phospholipid fatty acid concentration, dietary n-3 PUFA intake and, 925
superoxide dismutase activity
copper deficiency and, 791S
copper depletion and, 358
α-tocopherol concentration, single dose of oral vitamin E and, 717
uridine diphosphate galactose, in patients on low-protein (low-lactose) diets, 704
Erythropoiesis, pubertal boys, relation of serum transferrin and ferritin to, 179
Ethical issues, bioengineered food products, 657S
Exercise
body composition changes, 456S
in obese older women, cardiovascular disease risk factors and, 225
resistance (weight) training, chromium supplementation plus, effects on body composition, strength, and trace mineral status, 954
strength training, in postmenopausal women, sensitivity of body-composition assessment techniques to soft tissue changes, 678
weight-bearing, influence of lifetime behaviors on bone density in mother-daughter pairs, 72
Factorial measures, energy expenditure in smokers and nonsmokers, 15
Factorial methods, energy expenditure of urban Colombian women, 870
Fat, dietary functions, 991S
influence response and, 994S
influence on body composition in children, 507
monounsaturated effects of modified-fat diet on body fat distribution in non-insulin-dependent diabetes mellitus, 254
in non-insulin-dependent diabetes mellitus, glycemic response, 249
oralosal sensory stimulation, postprandial lipid metabolism and, 911
saturated, in non-insulin-dependent diabetes mellitus, glycemic response, 249
Fat cell function hypothesis, 448S
Fat-free mass, See also Lean body mass changes induced by strength training in postmenopausal women, sensitivity of body-composition assessment techniques, 678
chromium supplementation and resistance (weight) training and, 954
low resting metabolic rate and obesity, 879
Fat mass
body-composition measurement in children, accuracy of techniques, 299
dual-energy X-ray absorptiometry, validation of whole-body composition measures in pediatric body weight range, 293
osteoporosis and, 433S
Fat substitute, sucrose polyester (olestra), 891
Fatty acids
cognitive function and, 997S
dietary effect of fat-modified dairy products on plasma cholesterol, 42
plasma triacylglycerol response to, 36
essential, functions, 991S
fetal excretion, dietary stearic acid intake and (letter), 400
in genetically engineered plants, 651S
nonesterified, plasma, response to dietary fatty acids, 36
n-3 polyunsaturated dietary intake, Crohn’s disease in Japan and, 741
effect of flaxseed oil-based vs. fish oil-based diet on cytokine synthesis, 116
fish oil supplementation and MHC class II molecule expression by monocytes, 267
immune response and, 994S
immunologic effects (monkey), 273
LDL oxidation and, 261
modification of lung and liver macrophage phospholipid fatty acid content by continuous short-term enteral feeding (rat), 208
phospholipid fatty acid concentration in plasma and erythrocytes, 925
n-6 polyunsaturated activation of nuclear transcription factor-κB, endothelial dysfunction and, 322
dietary intake, Crohn’s disease in Japan and, 741
immune response and, 994S
postprandial oxidation, butter vs. beef tallow consumption and, 918
saturated cholesteral-raising effects, 897
in dairy products, modification via feedlot technology, plasma cholesterol effect in humans, 42
trans, position paper, 663
unsaturated, hydrogenation, 663
Fat weight, 412S
Fecal excretion
ammonia, resistant starch and, 766
fatty acids, dietary stearic acid intake and (letter), 400
nitrogen in chronic renal failure, guar gum supplementation and, 392
resistant starch and, 766
phenols, resistant starch and, 766
zinc, in young Chinese women, 348
Feces, microflora, dietary fructooligosaccharide supplementation and, 709
Feedlot technology, modification of dairy fats, plasma cholesterol effect in humans, 42
Fermentation, colonic
dietary fructooligosaccharide intake and, 939
resistant starch and, 766
Ferritin, serum, relation to body growth, pubertal stage, erythropoiesis, and iron deficiency in pubertal boys, 179
Fiber, dietary effect of gum arabic on fecal nitrogen excretion and serum urea nitrogen in chronic renal failure patients on low-protein diet, 392
effect of soy fiber supplementation on nutrient digestion and absorption in small intestine, 584
psyllium-enriched cereal for pediatric hypercholesterolemia, 96
Fish, dietary intake lean white fish and plasma lipoprotein levels in premenopausal women, 315
sex hormone-binding globulin levels and, 22
Fish oil. See also Fatty acids, n-3 polyunsaturated dietary, cytokine synthesis and, 116
enteral feeding, modification of lung and liver macrophage phospholipid fatty acid content, 208
LDL oxidation and, in postmenopausal women, 184
Flaxseed oil, dietary, cytokine synthesis and, 116
Growth
Glycocholic
Glycemic
Glucose
Gastric
Galactose,
Full
Fructooligosaccharide.
Food
Growth
Food
Folate
1006
body
recombinant
genetic
screening
preterm
impaired,
growth-retarded
hepatic
milk
in
sodium
plasma.
folate
blood
records,
protein-based
bypass,
composition
formula,
nutrition,
status,
and,
I
modification
bovine
protein,
and,
I
nutrient
6215
indexes
138
of
6515
vitamin
566
in
vitamin
365
LDL
in
hemodialysis,
patients,
vs.
low-protein
diet,
and,
non-insulin-dependent
dietary
and,
adult,
and,
high-fat
diet,
and,
well-fed
diet,
and,
energy
of
19
and,
to
103
and,
acid
in
the
and,
urinary
creatinine,
and,
bone
704
confounding
factors,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
and,
plasma, in growth-retarded Vietnamese children, zinc supplementation and, 514
Insulin sensitivity
dietary carbohydrate types and, 47
dietary fructooligosaccharide intake and, 939
dietary vitamin intake and, 946
Interleukin(s), IL-1β
in obese alcoholics, 373
synthesis, dietary n-3 polyunsaturated fatty acids and, 116
Intestinal absorption
calcium
effect of acetate and butyrate, 574
effect of vitamin D supplement plus calcium, 354
during lactation and after weaning, 526
copper, 821S
nonheme iron, phytate inhibition, dietary protein source and, 203
vitamin E, single oral dose response in cystic fibrosis, 717
zinc
in premature infants, 342
in young Chinese women, 348
Intrinsic factor, vitamin B-12 deficiency after gastric bypass, 103
Iodine deficiency
cognitive performance and, 997S
learning disabilities and poor motivation and, 782
Iron
absorption, phytate inhibition, dietary protein source and, 203
copper bioavailability and, 821S
metabolism, aceruloplasminemia, 836S
nutritional status, chromium supplementation and resistance (weight) training and, 954
supplementation
drinking water, in Brazil (letter), 612
in pregnancy, 853
weekly vs. daily supplementation, 884
weekly vs. daily (letter), 610
Iron deficiency
anemia, in pregnancy, 884
cognitive performance and, 997S
in pubertal boys, relation of serum transferrin and ferritin, 179
serum soluble transferrin receptor in, undernutrition and, 596
Isotopes. See Stable isotope study
Jejunum, digestion of milk proteins, 546
Ketosis, glyceremia reduction in obese patients with non-insulin-dependent diabetes mellitus on very-low-energy diets, 110
Kidney, carnitine clearance, choline/pantothenate supplementation and, 904
Kretchmer, Norman (In Memoriam), 285
Kupffer cell, phospholipids, modification of PUFA composition by continuous enteral feeding of n-3 fatty acids (rat), 208
Labor and delivery, preterm, maternal folate status and, 520
α-Lactalbumin, expression of human gene in mice, 639S
Lactation
calcium absorption during, 526
vitamin A status, vitamin A supplementation and, 32
Lactoglobulin, jejunal digestion, 546
Lauric acid (12:0), cholesterol-raising effects, 897
Lean body mass
body-composition measurement in children, accuracy of techniques, 299
dual-energy X-ray absorptiometry, 80
validation of whole-body composition measures in pediatric body weight range, 293
in elderly population, 151
osteoporosis and, 433S
Lean body weight, 412S
Learning disability, iodine deficiency and, 782
Letters
Antioxidant status in cystic fibrosis patients, 138
Dairy industry protects milk from photodegradation; why not protect total parenteral solutions also, 404
Dietary prevention of osteoporosis: are we ignoring evidence, 787
Effects of diets containing high or low amounts of stearic acid on plasma lipoprotein fractions and fecal fatty acid excretion of men, 400
Folate dose may mask small differences in folate metabolism, 976
Fortification of drinking water with iron: a new strategy for combating iron deficiency in Brazil, 612
Public nutrition, 399
Sodium in processed foods, 138
Standardization of nutritional-status terminology, 139
Total energy expenditure and basal metabolic rate, 281
Visceral adiposity and lipid oxidation, 977
Weekly compared with daily iron supplementation, 610
White wine reduces the susceptibility of low-density lipoproteins to oxidation, 403
Linoleic acid (18:2n-6)
activation of nuclear transcription factor-kB, endothelial dysfunction and, 322
dietary intake
growth of infants with cystic fibrosis, 746
plasma triacylglycerol response, 36
susceptibility of LDL and VLDL to oxidation, 698
Linolenic acid (18:3n-3)
dietary
cytokine synthesis and, 116
immunologic effects (monkey), 273
supplementation, effect on visual acuity and growth of preterm infants with/without bronchopulmonary dysplasia, 687
Lipemia, postprandial, origin of early postprandial plasma triacylglycerol peak, 36
Lipid(s)
blood
dietary fructooligosaccharide intake and, 939
trans fatty acids and, 663
metabolism, postprandial, oronasal sensory stimulation with fats and, 911
oxidation, visceral adiposity and (letter), 977
serum
diet and, influence of apolipoprotein E polymorphism, 87
mono-unsaturated fat intake and, 933
in obese older women, diet and exercise and, 225
Lipoprotein(s)
low-density (LDL)
effect of National Cholesterol Education Program Step 2 diet, 234
oxidation in diabetes mellitus, RRR-α-tocopherol supplementation and, 753
dietary linoleic acid intake and, 698
effects of fish oil, vitamin E, and hormone replacement therapy, 184
n-3 fatty acids and, 261
red wine consumption and, 329
white wine consumption and (letter), 403
vitamin E concentration, severity of coronary artery disease and, 377
plasma
dietary stearic acid intake and (letter), 400
effect of lean white fish intake, 315
serum, dietary saturated fatty acid intake and, 897
very-low-density (VLDL), oxidation, dietary linoleic acid intake and, 698
Lipoprotein(a), serum
dietary saturated fatty acid intake and, 897
in infants, effects of cholesterol-lowering dietary intervention and apolipoprotein E phenotype, 386
Lipoprotein lipase, effect of lean white fish intake on plasma lipoproteins, 315
Liver
copper storage and transport, 812S
glucose production, dietary fructooligosaccharide intake and, 939
hepatic sinusoidal cell phospholipids, modification of PUFA composition by continuous enteral feeding of n-3 fatty acids (rat), 208
Liver disease
alcoholic. See Alcoholic liver disease
cirrhosis. See also Cirrhosis
malnutrition in, 602
Lung
alveolar macrophage phospholipids, modification of PUFA composition by continuous enteral feeding of n-3 fatty acids (rat), 208
bronchopulmonary dysplasia. See Bronchopulmonary dysplasia
SUBJECT INDEX

1007
Magnesium
  balance, in adolescent girls, calcium intake and, 950
  nutritional status, chromium supplementation and resistance (weight) training and, 954
Major histocompatibility complex, class II molecules, monocyte expression, fish oil supplementation and, 267
Malnutrition
  in cirrhosis, 602
cognitive performance and, 997S
stunting and wasting in Filipino children, risk factor assessment, 966
Maple syrup urine disease, galactose supplementation, blood cell content of uridine diphosphate galactose and, 704
Marketing, bioengineered food products, 657S
Menkes syndrome, 797S, 836S
Menopause, biochemical indexes of vitamin K status, 566
Metabolic rate
  basal, total energy expenditure and (letter), 281
  resting
in elderly population, 151
low RMR and obesity, 879
Metallothionein, hepatic copper homeostasis, 812S
Methionine, plasma, in HIV infection, 242
Mexican diet, plasma amino acid profile, 335
Milk
  calcium bioavailability, 354
  genetic modification of milk proteins, 633S
human
  copper bioavailability, 821S
  recombinant milk proteins, 622S
  milk protein-based transgenes, factors regulating (rat), 627S
  production of proteins in milk of transgenic livestock, 639S
  proteins, jejunal digestion, 546
Models/modeling, multicompartmental models for calculating body composition, 856
Modified-relative-dose-response (MRDR) test, vitamin A status in lactating Indonesian women, 32
Molecular biology
  copper, 797S
copper toxicity, 836S
Monocyte(s)
  adhesion molecule expression, fish oil supplementation and, 267
carotenoid and tocopherol concentrations, \( \beta \)-carotene supplementation and, 553
cytokine synthesis, dietary \( n=3 \) polyunsaturated fatty acids and, 116
MHC class II molecule expression, fish oil supplementation and, 267
Mood, in obesity, consequences of weight loss, 461S
Morbidity and mortality
  health risks of weight cycling, 452S
  healthy weight, 412S
defining healthy weight, 415S
targets for chronic disease, 409S
overweight in children and adolescents, 4455
Myristic acid (14:0), postprandial oxidation, butter vs. beef tallow consumption and, 918
National Cholesterol Education Program Step 2 diet, effect on plasma lipoproteins and blood pressure, 234
Neutropenia, copper deficiency and, 791S
Nitrogen, fecal. See Fecal excretion, nitrogen
Nitroreductase, fecal, dietary fructooligosaccharide supplementation and, 709
Nuclear transcription factor-kB, \( n=6 \) fatty acid-induced activation, endothelial dysfunction and, 322
Nutrient requirements, functional endpoints in defining nutrient requirements, 983S
Nutritional status. See also specific nutrients in amyotrophic lateral sclerosis, 130
in cirrhosis patients, 602
cognitive performance and, 997S
copper, 821S
standardization of nutritional-status terminology (letter), 139
vitamin K, biochemical indexes, 566
Nutrition interventions, screening for, risk-factor analysis vs. differential-benefit approach, 671
Obesity
  body mass index and full fat cell hypothesis, 448S
cancer risk:
  breast and endometrial cancers, 437S
colon cancer, 442S
cardiovascular disease and, 419S
central adiposity
  lipid oxidation and (letter), 977
  risk for breast and endometrial cancers, 437S
current knowledge on adverse health consequences, communications challenges and opportunities, 470S
cytokines in obese alcoholics, 373
health risks, 415S
low-energy diet, nutrient composition and weight loss, 174
non-insulin-dependent diabetes mellitus and, 426S
effect of high-ketogenic very-low-energy diet, 110
osteoporosis and, 430S
pediatric
  body-composition measurement, accuracy of techniques, 299
  body mass index screening, 500
dietary fat intake and, 507
  morbidity and mortality, 445S
  parental influence, 507
  prevention, effects of increased physical activity, 456S
  risk, low resting metabolic rate and, 879
  social and economic effects in United States, 466S
  stomach capacity, dieting and, 170
  thermic effect of food, 164
  weight reduction, psychosocial consequences, 461S
Obesity surgery, vitamin B-12 deficiency after, 103
Oleic acid (18:1n-9), dietary intake
  cholesterol-raising effects, 897
  plasma triacylglycerol response, 36
Olestra (sucrose polyester), effects on energy intake and appetite control, 891
Osteoarthritis
  healthy weight in, 409S
  overweight and, 430S
Osteocalcin, undercarboxylated, vitamin K status, 566
Osteoporosis
  body weight and, 433S
  bone density in mother-daughter pairs, 72
dietary prevention (letter), 787
fat and calcium intake in women dieters, 67
healthy weight in, 409S
Overfeeding, effect of high-fat diet and alcohol intake, 479
Overweight
  body mass index and full fat cell hypothesis, 448S
cancer risk
  breast and endometrial cancers, 437S
colon cancer, 442S
cardiovascular disease and, 419S
current knowledge on adverse health consequences, communications challenges and opportunities, 470S
osteoporosis and, 430S
pediatric population, morbidity and mortality, 445S
prevention, effects of increased physical activity, 456S
social and economic effects in United States, 466S
Oxidation
  fatty acids, butter vs. beef tallow consumption and, 918
  lipids, visceral adiposity and (letter), 977
  low-density lipoproteins in diabetes mellitus, \( RRR-\alpha \)-tocopherol supplementation and, 753
dietary linoleic acid intake and, 698
  effects of fish oil, vitamin E, and hormone replacement therapy, 184
  \( n=3 \) fatty acids and, 261
  red wine consumption and, 329
  white wine consumption and (letter), 403
  phenylalanine, stable isotope study, 532
  very-low-density lipoproteins, dietary linoleic acid intake and, 698
  oxidative stress, in HIV infection, 242
<table>
<thead>
<tr>
<th>Subject Index</th>
<th>Page 1009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palmitic acid (16:0) cholesterol-raising effects, 897</td>
<td></td>
</tr>
<tr>
<td>postprandial oxidation, butter vs. beef tallow consumption and, 918</td>
<td></td>
</tr>
<tr>
<td>Pantothenate, supplementation, carnitine status and, 904</td>
<td></td>
</tr>
<tr>
<td>Parental influence, fat intake of children, 507</td>
<td></td>
</tr>
<tr>
<td>Parenteral nutrition, total, photodegradation of solutions, protection against (letters), 404</td>
<td></td>
</tr>
<tr>
<td>Pediatric population</td>
<td></td>
</tr>
<tr>
<td>body-composition measurement</td>
<td></td>
</tr>
<tr>
<td>accuracy of techniques, 299</td>
<td></td>
</tr>
<tr>
<td>comparison of techniques, 287</td>
<td></td>
</tr>
<tr>
<td>child growth in Ghana, vitamin A supplementation and, 773</td>
<td></td>
</tr>
<tr>
<td>fat intake and adiposity in children, 507</td>
<td></td>
</tr>
<tr>
<td>growth, infection, and circulating IGF-1 in growth-retarded Vietnamese children, zinc supplementation and, 514</td>
<td></td>
</tr>
<tr>
<td>hypercholesterolemia, psyllium for, 96</td>
<td></td>
</tr>
<tr>
<td>Indian childhood cirrhosis, 830S</td>
<td></td>
</tr>
<tr>
<td>iodine deficiency, learning disabilities and poor motivation and, 782</td>
<td></td>
</tr>
<tr>
<td>non-Indian (idiopathic) childhood cirrhosis, 842S</td>
<td></td>
</tr>
<tr>
<td>overweight</td>
<td></td>
</tr>
<tr>
<td>body mass index screening for adiposity, 500</td>
<td></td>
</tr>
<tr>
<td>morbidity and mortality, 445S</td>
<td></td>
</tr>
<tr>
<td>screening for nutrition interventions, risk-factor analysis vs. differential-benefit approach, 671</td>
<td></td>
</tr>
<tr>
<td>stunting and wasting in Filipino children, risk factor assessment, 966</td>
<td></td>
</tr>
<tr>
<td>Pharmacokinetics, riboflavin, 54</td>
<td></td>
</tr>
<tr>
<td>Phenols, fecal excretion, resistant starch and, 766</td>
<td></td>
</tr>
<tr>
<td>Phylloquinone, plasma, vitamin K status, 566</td>
<td></td>
</tr>
<tr>
<td>Physical activity</td>
<td></td>
</tr>
<tr>
<td>energy cost, urban Colombian women, heart rate monitoring vs. factorial methods, 870</td>
<td></td>
</tr>
<tr>
<td>increased, body composition changes, 456S</td>
<td></td>
</tr>
<tr>
<td>influence of lifetime behaviors on bone density in mother-daughter pairs, 72</td>
<td></td>
</tr>
<tr>
<td>Phytate</td>
<td></td>
</tr>
<tr>
<td>copper bioavailability and, 821S</td>
<td></td>
</tr>
<tr>
<td>inhibition of nonheme iron absorption, dietary protein source and, 203</td>
<td></td>
</tr>
<tr>
<td>Plant transformation, 651S</td>
<td></td>
</tr>
<tr>
<td>Plasma</td>
<td></td>
</tr>
<tr>
<td>antioxidants</td>
<td></td>
</tr>
<tr>
<td>cigarette smoke and, 559</td>
<td></td>
</tr>
<tr>
<td>red wine consumption and, 329</td>
<td></td>
</tr>
<tr>
<td>carotenoid and tocopherol concentrations, B-carotene supplementation and, 533</td>
<td></td>
</tr>
<tr>
<td>phospholipid fatty acid concentration, dietary n-3 PUFA intake and, 925</td>
<td></td>
</tr>
<tr>
<td>Platelet function, fatty acids and, 991S</td>
<td></td>
</tr>
<tr>
<td>Policy issues, healthy weight, 415S</td>
<td></td>
</tr>
<tr>
<td>Postmenopausal period</td>
<td></td>
</tr>
<tr>
<td>effect of dietary copper deprivation on copper-status indicators, 358</td>
<td></td>
</tr>
<tr>
<td>effects of fish oil, vitamin E, and hormone replacement therapy on LDL oxidation, 184</td>
<td></td>
</tr>
<tr>
<td>strength training, sensitivity of body-composition assessment techniques to soft tissue changes, 678</td>
<td></td>
</tr>
<tr>
<td>Pregnancy</td>
<td></td>
</tr>
<tr>
<td>iron supplementation in, 853</td>
<td></td>
</tr>
<tr>
<td>weekly vs. daily supplementation, 884</td>
<td></td>
</tr>
<tr>
<td>outcome, folate and, 520</td>
<td></td>
</tr>
<tr>
<td>Premenopausal period, effect of lean white fish intake on plasma lipoproteins, 315</td>
<td></td>
</tr>
<tr>
<td>Propionate, calcium absorption from distal colon and, 574</td>
<td></td>
</tr>
<tr>
<td>Protein(s)</td>
<td></td>
</tr>
<tr>
<td>dietary intake, in amyotrophic lateral sclerosis, 130</td>
<td></td>
</tr>
<tr>
<td>dietary source</td>
<td></td>
</tr>
<tr>
<td>copper bioavailability and, 821S</td>
<td></td>
</tr>
<tr>
<td>influence on phytate inhibition of iron absorption, 203</td>
<td></td>
</tr>
<tr>
<td>digestion and absorption in small intestine, effect of soy fiber supplementation, 584</td>
<td></td>
</tr>
<tr>
<td>fermentation, resistant starch and, 766</td>
<td></td>
</tr>
<tr>
<td>milk</td>
<td></td>
</tr>
<tr>
<td>genetic modification of bovine milk proteins, 633S</td>
<td></td>
</tr>
<tr>
<td>jejunal digestion, 546</td>
<td></td>
</tr>
<tr>
<td>production of proteins in milk of transgenic livestock, 639S</td>
<td></td>
</tr>
<tr>
<td>recombinant human milk proteins, 622S</td>
<td></td>
</tr>
<tr>
<td>Protein malnutrition, in cirrhosis, 602</td>
<td></td>
</tr>
<tr>
<td>Prothrombin, undercarboxylated, vitamin K status, 566</td>
<td></td>
</tr>
<tr>
<td>Psychologic status, in obesity, consequences of weight loss, 461S</td>
<td></td>
</tr>
<tr>
<td>Psyllium, for hypercholesterolemia in children, 96</td>
<td></td>
</tr>
<tr>
<td>Puberty, relation of serum transferrin and ferritin to body growth, pubertal stage, erythropoiesis, and iron deficiency in pubertal boys, 179</td>
<td></td>
</tr>
<tr>
<td>Public nutrition (letter), 399</td>
<td></td>
</tr>
<tr>
<td>Public perception, genetic engineering in infant nutrition, 657S</td>
<td></td>
</tr>
<tr>
<td>Reactive oxygen species in critically ill, 760</td>
<td></td>
</tr>
<tr>
<td>origins and consequences, 985S</td>
<td></td>
</tr>
<tr>
<td>Receiver operating characteristic (ROC) curves, body mass index screening for adiposity in children and adolescents, 500</td>
<td></td>
</tr>
<tr>
<td>Recommended dietary allowance (RDA), functional endpoints in defining nutrient requirements, 983S</td>
<td></td>
</tr>
<tr>
<td>Reductive enzymes, fecal, dietary fructooligosaccharide supplementation and, 709</td>
<td></td>
</tr>
<tr>
<td>Relative dose response</td>
<td></td>
</tr>
<tr>
<td>intramuscular, prediction of bronchopulmonary dysplasia in premature infants, 123</td>
<td></td>
</tr>
<tr>
<td>modified. See Modified-relative-dose-response (MRDR) test</td>
<td></td>
</tr>
<tr>
<td>Renal failure, chronic, effects of guar gum supplementation on fecal nitrogen excretion and serum urea nitrogen, 392</td>
<td></td>
</tr>
<tr>
<td>Resistant starch, protein fermentation and, 766</td>
<td></td>
</tr>
<tr>
<td>Retinol</td>
<td></td>
</tr>
<tr>
<td>plasma, cigarette smoke and, 559</td>
<td></td>
</tr>
<tr>
<td>serum, prediction of bronchopulmonary dysplasia in premature infants, 123</td>
<td></td>
</tr>
<tr>
<td>Retinol-binding protein, serum, prediction of bronchopulmonary dysplasia in premature infants, 123</td>
<td></td>
</tr>
<tr>
<td>Retinyl palmitate, serum, prediction of bronchopulmonary dysplasia in premature infants, 123</td>
<td></td>
</tr>
<tr>
<td>Riboflavin, pharmacokinetics, 54</td>
<td></td>
</tr>
<tr>
<td>Rice, dietary intake, sex hormone-binding globulin levels and, 22</td>
<td></td>
</tr>
<tr>
<td>Risk-factor analysis, screening for nutrition interventions, 671</td>
<td></td>
</tr>
<tr>
<td>Satiety</td>
<td></td>
</tr>
<tr>
<td>hyperphagic effect of high-fat diet and alcohol intake, 479</td>
<td></td>
</tr>
<tr>
<td>sucrose polyester intake and, 891</td>
<td></td>
</tr>
<tr>
<td>Schilling test, after gastric bypass, 103</td>
<td></td>
</tr>
<tr>
<td>Screening studies</td>
<td></td>
</tr>
<tr>
<td>body mass index and overweight in children and adolescents, 500</td>
<td></td>
</tr>
<tr>
<td>nutrition interventions, risk-factor analysis vs. differential-benefit approach, 671</td>
<td></td>
</tr>
<tr>
<td>Sensory stimulation, oronasal, with dietary fats, 904</td>
<td></td>
</tr>
<tr>
<td>Sex hormone-binding globulin, diet and, 22</td>
<td></td>
</tr>
<tr>
<td>Sex hormones, effect of lean white fish intake on plasma lipoproteins, 315</td>
<td></td>
</tr>
<tr>
<td>Skeletal muscle</td>
<td></td>
</tr>
<tr>
<td>glycogen, dietary carbohydrate types and, 47</td>
<td></td>
</tr>
<tr>
<td>mass changes induced by strength training in postmenopausal women, sensitivity of body-composition assessment techniques, 678</td>
<td></td>
</tr>
<tr>
<td>chromium supplementation and resistance (weight) training and, 954</td>
<td></td>
</tr>
<tr>
<td>in elderly population, 151</td>
<td></td>
</tr>
<tr>
<td>total-body, urinary creatinine excretion and, 863</td>
<td></td>
</tr>
<tr>
<td>Skinfold thickness. See also Anthropometry</td>
<td></td>
</tr>
<tr>
<td>body-composition measurement in children, 287</td>
<td></td>
</tr>
<tr>
<td>accuracy of, 299</td>
<td></td>
</tr>
<tr>
<td>multicompartmental models for calculating body composition, 856</td>
<td></td>
</tr>
<tr>
<td>Smoking</td>
<td></td>
</tr>
<tr>
<td>effect of cigarette smoke on plasma antioxidants, 559</td>
<td></td>
</tr>
<tr>
<td>energy expenditure and, 15</td>
<td></td>
</tr>
<tr>
<td>Sodium</td>
<td></td>
</tr>
<tr>
<td>dietary intake</td>
<td></td>
</tr>
<tr>
<td>blood pressure and, 423S</td>
<td></td>
</tr>
<tr>
<td>calcium excretion and, 735</td>
<td></td>
</tr>
<tr>
<td>in processed foods (letter), 138</td>
<td></td>
</tr>
<tr>
<td>urinary excretion, hydroxyproline excretion and, 735</td>
<td></td>
</tr>
<tr>
<td>Soft tissue, changes induced by strength training in postmenopausal women, sensitivity of body-composition assessment techniques, 678</td>
<td></td>
</tr>
</tbody>
</table>
Stable isotope study
  efficiency of calcium absorption during inadequate calcium intake in
  adolescent girls, 579
  jejunal digestion of milk proteins, 546
  maternal calcium absorption during lactation and after weaning, 526
  phenylalanine kinetics over 24 hours, 532
  zinc absorption
    in premature infants, 342
    in young Chinese women, 348
  Stearic acid (18:0), fatty acids, dietary stearic acid intake and (letter), 400
  Stomach capacity, in obese subjects, dieting and, 170
  Strength
    chromium supplementation and resistance (weight) training and, 954
    in elderly population, 151
  Stunting, in Filipino children, risk factor assessment, 966
  Sucrose polymer (olestra), effects on energy intake and appetite control, 891
  Superoxide dismutase, erythrocyte
    copper deficiency and, 791S
    copper depletion and, 358
  Technical editors
    proofreading page proofs, 284
    SL units, 619
    World Wide Web, 981
  Thermic effect of food (TEF), measurement, 164
  Thrombosis, fatty acids and, 991S
  Thyroid hormone(s), plasma, low resting metabolic rate and obesity and, 879
  Tocopherol. See also Vitamin E
    plasma, cigarette smoke and, 559
    in plasma and blood cells, δ-carotenoid supplementation and, 553
    RRR-α-Tocopherol, supplementation
      in cystic fibrosis, all-rac-α-tocopheryl acetate vs., 722
      LDL oxidizability and, in diabetes mellitus, 753
    all-rac-α-Tocopheryl acetate
      single oral dose response in cystic fibrosis, 717
    supplementation in cystic fibrosis, RRR-α-tocopherol vs., 722
  Toxicants, in genetically engineered plants, 651S
  Transcription factor, mammary gland-specific milk protein-based trans- gene expression (rat), 627S
  Transferrin, serum, relation to body growth, pubertal stage, erythropoiesis, and iron deficiency in pubertal boys, 179
  Transferrin receptor, soluble, undernutrition and, 596
  Triacylglycerol, plasma, postprandial concentration, oronasal sensory stimulation with fats and, 911
  Triacylglycerol(s)
    plasma, response to dietary fatty acids, 36
    skeletal muscle, dietary carbohydrate types and, 47
  Tumor necrosis factor α
    in obese alcoholics, 373
    synthesis, dietary n-3 polyunsaturated fatty acids and, 116
  Undernutrition, serum soluble transferrin receptor and, 596
  Underwater weighing, multicompartmental models for calculating body composition, 856
  Urea nitrogen, serum, in chronic renal failure, guar gum supplementation and, 392
  Uridine diphosphate galactose, erythrocyte, in patients on low-protein (low-lactose) diets, 704
  Urine
    calcium excretion, sodium intake and, 735
    γ-carboxyglutamic acid (Gla)-creatinine excretion ratio, vitamin K status, 566
    carnitine excretion, choline/pantothenate supplementation and, 904
    creatinine excretion
      body composition in elderly population, 151
      total-body skeletal muscle mass, 863
      hydroxyproline excretion, sodium excretion and, 735
  Virus infection, cirrhosis and, 602
  Visual acuity
    fatty acids and, 997S
    preterm infants, docosahexaenoic acid vs. linolenic acid supplementation, 687
  Vitamin A
    dietary intake, insulin sensitivity and, 946
    nutritional status, in lactation, vitamin A supplementation and, 32
    supplementation
      child growth in Ghana and, 773
      in premature infants at risk of bronchopulmonary dysplasia, 123
  Vitamin B-6
    nutritional status, hyperhomocysteinemia in chronic alcoholism and, 220
    plasma, cognitive performance and, 306
  Vitamin B-12
    absorption, after gastric bypass for obesity, 103
    nutritional status, hyperhomocysteinemia in chronic alcoholism and, 220
    plasma, cognitive performance and, 306
  Vitamin C. See Ascorbic acid
  Vitamin D, calcium carbonate plus, calcium bioavailability, 354
  Vitamin E
    absorption, single oral dose response in cystic fibrosis, 717
    dietary intake, insulin sensitivity and, 946
    immune response and, 994S
    LDL oxidation and, in postmenopausal women, 184
    n-3 polyunsaturated fatty acids and, 991S
    oxidative damage and defense, 985S
    serum and LDL concentrations, severity of coronary artery disease and, 377
    supplementation in cystic fibrosis, RRR-α-tocopherol vs. all-rac-α-tocopheryl acetate, 722
    LDL oxidizability and, in diabetes mellitus, 753
  Vitamin K, nutritional status, biochemical indexes, 566
  Wasting, in Filipino children, risk factor assessment, 966
  Weaning, maternal calcium absorption after, 526
  Weight cycling
    health risks, 452S
    psychosocial consequences of weight regain, 461S
  Weight gain
    risk for breast and endometrial cancers, 437S
    social and economic effects in United States, 466S
  Weight loss
    blood pressure and, 423S
    cardiovascular disease and, 419S
    gastric capacity and, 170
    goals, 461S
    low-energy diet, effect of nutrient composition, 174
    in obese older women, cardiovascular disease risk factors and, 225
    in obese patients with non-insulin-dependent diabetes mellitus, high-ketogenic very-low-energy diet and, 110
    psychosocial consequences, 461S
  recommendations, 474S
  Wheat, dietary intake, sex hormone-binding globulin levels and, 22
  Whey acidic protein, mammary gland-specific gene expression (rat), 627S
  Wilson disease, 797S, 836S, 842S
  Wine. See Alcohol ingestion
  Zinc
    absorption
      in premature infants, 342
      in young Chinese women, 348
    copper bioavailability and, 821S
    nutritional status, chromium supplementation and resistance (weight) training and, 954
    supplementation, growth, infection, and circulating IGF-1 in growth-retarded Vietnamese children, 514
Author Index
Volume 63

Abbate R, 925
Abernathy RP, 448S
Abrahamsen B, 80
Abrams SA, 579
Addy HA, 773
Alamowitch C, 939
Albertino F, 602
Al-Hazaa S, 760
Allaz A-F, 174
Allman MA, 402
Amadio P, 602
Andon MB, 787, 950
Andrews WL, 342
Angel P, 602
Antilla R, 179
Arseneau P, 103
Arthur P, 773
Asencio C, 335
Assen NA, 329
Astrup A, 879
Aukrust P, 242
Aviram M, 403
Bailey LB, 976
Baines J, 15
Ballard-Barbash R, 437S
Ball MJ, 67
Banks PLC, 208
Barger SW, 322
Barry J-L, 939
Barve S, 322
Baumgartner RN, 365
Baur L, 500
Bävenholm P, 377
Beard JL, 997S
Beaumier L, 532
Becker S, 966
Beck-Nielsen H, 80
Ben-Amotz A, 729
Benamouzig R, 546
Bendich A, 994S
Berge RK, 242
Berry GT, 704
Berrymann S, 130
Besseen DH, 87
Beyde BI, 584
Bhave S, 830S
Biaisia F, 261
Biffanti S, 261
Binka FN, 773

Birkett A, 766
Bistrian BR, 208
Black AE, 281
Black R, 448S
Blayo A, 939
Bliss DZ, 392
Blundell JE, 891
Blyth F, 500
Bodenham A, 760
Bolognesi M, 602
Boltonchuk WW, 954
Bonanome A, 261
Borner FR, 939
Bourges H, 335
Boussairi S, 584
Boy NF, 483
Brand JM, 123
Brun L-D, 315
Bryding G, 856
Buddington R.K, 709
Buemann B, 879
Bunout D, 373
Bunyaard LK, 978
Burns JH, 96
Burri BJ, 985S
Butterfield GE, 225

Caldé P, 403
Callow J, J, 36
Camilo ME, 220
Campbell TC, 22
Cappuccio FP, 787
Caregaro L, 602
Carlson SE, 687, 997S
Castillo L, 532
Caughley GE, 116
Chandalia M, 753
Chapman TE, 532
Charles P, 354
Chattopadhyay N, 782
Chen S-C, 709
Christiansen C, 249
Chytil F, 404
Clark AJ, 633S
Cleland LG, 116
Clifton PM, 42
Cobb JL, 419S
Coburn SP, 139
Colditz GA, 466S
Cole TJ, 281

Collette L, 514
Colman A, 639S
Contois JH, 234
Cook JD, 203, 611
Cooper BA, 103
Costa Mira F, 220
Cotton JR, 891
Coulston AM, 946
Coward WA, 281
Cravo ML, 220
Cross CE, 559

D’Agostino RB, 419S
Dallal GE, 491
Davidson MH, 96
Davin L, 546
Day PR, 651S
de la Maza MP, 373
De Luca M, 261
Demacker PNM, 329
DeMichele SJ, 208
de Rijke YB, 329
Desai I, 612
Deshaies Y, 315
de Tommasi N, 174
Deurenberg P, 4
Devine A, 788
Dillon D, 884
Dodge PR, 615
Dodson WL, 904
Dollimore N, 773
Dougherty RM, 402
Downing C, 760
Dreman K, 96
Driscoll P, 299
Dufour DL, 870
Dugan LD, 96
Dupont J, 991S
Du S-H, 184
Duthie CM, 293
Dutra-de-Oliveira JE, 612
Dwyer J, 415S

Economos CD, 678
Ehnholm C, 386
El-Khoury AE, 532
Ellis KJ, 579
Evans WJ, 678

Facchini F, 946
Farrell PM, 746

AUTHOR INDEX
<table>
<thead>
<tr>
<th>Author</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viikari J.</td>
<td>386</td>
</tr>
<tr>
<td>Viteri FE.</td>
<td>610, 613</td>
</tr>
<tr>
<td>Volpe SL.</td>
<td>142</td>
</tr>
<tr>
<td>Wadden TA.</td>
<td>461S</td>
</tr>
<tr>
<td>Walker KZ.</td>
<td>254, 933</td>
</tr>
<tr>
<td>Wander RC.</td>
<td>184</td>
</tr>
<tr>
<td>Wang Z-M.</td>
<td>863</td>
</tr>
<tr>
<td>Wardlaw GM.</td>
<td>433S</td>
</tr>
<tr>
<td>Warner RP.</td>
<td>596</td>
</tr>
<tr>
<td>Warwick PM.</td>
<td>15</td>
</tr>
<tr>
<td>Webb K.</td>
<td>500</td>
</tr>
<tr>
<td>Welle S.</td>
<td>151</td>
</tr>
<tr>
<td>Wendel JA.</td>
<td>110</td>
</tr>
<tr>
<td>Werkman SH.</td>
<td>687</td>
</tr>
<tr>
<td>Weststrate JA.</td>
<td>891</td>
</tr>
<tr>
<td>Wild J.</td>
<td>976</td>
</tr>
<tr>
<td>Willett W.</td>
<td>491</td>
</tr>
<tr>
<td>Williams CH.</td>
<td>709</td>
</tr>
<tr>
<td>Wilmore JH.</td>
<td>456S</td>
</tr>
<tr>
<td>Wilson DM.</td>
<td>789</td>
</tr>
<tr>
<td>Wingate BJ.</td>
<td>461S</td>
</tr>
<tr>
<td>Winick M.</td>
<td>615</td>
</tr>
<tr>
<td>Winterhofer-Roob</td>
<td>138, 717, 722</td>
</tr>
<tr>
<td>Winston JF.</td>
<td>123</td>
</tr>
<tr>
<td>Witherly SA.</td>
<td>709</td>
</tr>
<tr>
<td>Wolever TMS.</td>
<td>574</td>
</tr>
<tr>
<td>Wolf AM.</td>
<td>466S</td>
</tr>
<tr>
<td>Wu D.</td>
<td>273</td>
</tr>
<tr>
<td>Yamato S.</td>
<td>741</td>
</tr>
<tr>
<td>Yergey AL.</td>
<td>526</td>
</tr>
<tr>
<td>Yip R.</td>
<td>853</td>
</tr>
<tr>
<td>Young VR.</td>
<td>532</td>
</tr>
<tr>
<td>Yu L.</td>
<td>596</td>
</tr>
<tr>
<td>Zachman RD.</td>
<td>123</td>
</tr>
<tr>
<td>Zeman FJ.</td>
<td>283</td>
</tr>
<tr>
<td>Zempleni J.</td>
<td>54</td>
</tr>
</tbody>
</table>
American Heart Association National Center Research Programs

The National Research Program has established a Behavioral Science, Epidemiology and Prevention peer review committee to specifically review applications in the areas of epidemiological and clinical investigations and behavioral and environmental modification studies related to cardiovascular diseases and stroke.

These national Grant-in-Aid awards are intended to support all or a substantial proportion of the costs for the completion of a research project. Grants provide 3 years of project support ($55,000 per year including 10% of indirect costs).


NIH Workshop: The Role of Dietary Supplements for Physically Active People

The purpose of the June 3-4 workshop, The Role of Dietary Supplements for Physically Active People, is to present a review of the current scientific knowledge of dietary supplements as correlated with exercise and recreational sports. The workshop is sponsored by the NIH Office of Dietary Supplements, the ASCN, and the AIN and is cosponsored by a number of other NIH components. The workshop will last 2 days and is free to the public. Contact Ann Beisignano, Technical Resources International, Inc, 3202 Tower Oaks Boulevard, Suite 200, Rockville, MD 20852-4200. (301) 770-3153. Fax 301-486-2245. E-mail: confdept@tech-res.com.

NCI Announces 1997 Cancer Prevention Fellowship Program

The National Cancer Institute is seeking applicants for the 1997 Cancer Prevention Fellowship Program, which is open to MDs, PhDs, and other clinicians who wish to train in the field of cancer prevention and control. The program offers Master of Public Health training during the first year at accredited universities followed by independent research opportunities within the Division of Cancer Prevention and Control, NCI. The program is 3 years with the MPH option and up to 3 years without. Applications due September 1, 1996. Appointment begins July 1, 1997.

The Summer Cancer Prevention and Control Academic Course is part of the Fellowship Program but is also open to physicians and scientists from cancer centers, universities, health departments, and industry interested in specialized instruction on the principles and practices of cancer prevention and control. The course is divided into modules that can be attended together or individually.

Contact Barbara Redding. (301) 496-8640. Fax 301-402-4863. E-mail: reddingb@dcpeps.nci.nih.gov.

Nutricia Research Foundation Offers Grants and Fellowships for 1997

The Nutricia Research Foundation is supporting seven research projects for 1997 through grants, fellowships, and student awards. The student awards are International Training Fellowships that are available to young graduates and investigators for a maximum of one year and up to $25,000. Students who have participated in nutrition-related scientific work and have contributed to one or more publications can be nominated for a student award. All projects and candidates qualifying for awards will be selected by the International Scientific Advisory Committee, chaired by HK Visser.

Applications are due September 2, 1996 and are available from JG Bindels, Secretariat of the Nutricia Research Foundation, PO Box 1, 2700 MA Zoetermeer, Netherlands. Fax 31 79 353 9647.

Official Methods of Analysis of AOAC INTERNATIONAL Available

The 16th edition of and supplements to the AOAC INTERNATIONAL methods of analysis are now available in this two volume set. The print version includes the January 1995 edition and the supplements through March 1996. $359 (North America), $399 (outside North America). The cd-rom version includes supplements through March 1996, 84 surplus methods, and 54 Interlaboratory Collaborative Validation Studies. For one user $575 (North America) and $595 (outside North America); for up to five users $1150 (North America) and $1170 (outside North America). Contact AOAC INTERNATIONAL, 481 North Frederick Avenue, Suite 500-GQ, Gaithersburg, MD 20877-2417. (301) 924-7077. Fax 301-924-7089. E-mail: aoac@aoac.org.
### Calendar of Events

**May 30–June 3, 1996**

*Lactation Educator Training Program*, Salinas Adult School, Salinas, CA. Sponsored by the UCLA Extension. Accredited by the California State Board of Registered Nursing for four units of credit in nursing. Approved by the American Dietetic Association for 29 CE credits. Contact Health Sciences, UCLA Extension, 10995 Le Conte Avenue, Room 711, Los Angeles, CA 90024. (310) 825-9187.

**June 1996 (call for date)**

*AOAC INTERNATIONAL Meeting, Mid-Canada Regional Section*, Winnipeg, Manitoba, Canada. Contact Peter Pel laers, Health Canada, Health Protection Branch, 510 Lagimodiere Boulevard, Winnipeg, MB R2J 3Y1, Canada. (204) 983-0087. Fax 204-983-5547.

**June 2–5, 1996**

*Monroe Wall Symposium—Harnessing Biodiversity for Therapeutic Drugs & Foods: Developing Products for the 21st Century*, Hyatt Regency, New Brunswick, NJ. Contact Keith Wilson, Cook College, Office of Continuing Professional Education, Rutgers University, PO Box 231, New Brunswick, NJ 08903-0231. (908) 932-9271. Fax 908-932-1187. E-mail: ocpe@aesop.rutgers.edu.

**June 3–4, 1996**

*NIH Workshop: The Role of Dietary Supplements for Physically Active People*, Natcher Conference Center, National Institutes of Health, Bethesda, MD. Sponsored by the NIH Office of Dietary Supplements, the ASCN, and the AIN and cosponsored by a number of other NIH components. Contact Ann Besignano, Technical Resources International, Inc., 3202 Tower Oaks Boulevard, Suite 200, Rockville, MD 20852-4200. (301) 770-3153. Fax 301-468-2245. E-mail: confdept@tech-res.com.

**June 4–6, 1996**

*Controlling Crystallization to Improve Food Product Quality*, Cook College, New Brunswick, NJ. Contact Keith Wilson, Cook College, Office of Continuing Professional Education, Rutgers University, PO Box 231, New Brunswick, NJ 08903-0231. (908) 932-9271. Fax 908-932-1187. E-mail: ocpe@aesop.rutgers.edu.

**June 5, 1996**

*New Developments in Diagnostic Techniques for Pediatric Gastroenterology and Nutrition*, Munich, Germany. Postgraduate course sponsored by the European Society for Paediatric Gastroenterology and Nutrition. Contact Congress Organisation Schäfer, Karl-Theodor-Strasse 64, D-80803 Munich, Germany. Fax 49 89 307 1021.

**June 6–8, 1996**

*29th Annual Meeting of the European Society for Paediatric Gastroenterology and Nutrition*, Munich, Germany. Sponsored by the European Society for Paediatric Gastroenterology and Nutrition. Abstracts were due **January 6**. Conference Chairman Berthold Koletzko, Kinderpuliklinik, Universität München, Pettenkoferstrasse 8a, D-80336 Munich, Germany. Fax 49 89 5160 4733. For information and registration, contact Congress Organisation Schäfer, Karl-Theodor-Strasse 64, D-80803 Munich, Germany. Fax 49 89 307 1021.

**June 8–11, 1996**

*American Diabetes Association 56th Annual Meeting and Scientific Sessions*, San Francisco. Abstracts were due **January 5**. For registration information, contact Meeting Services Department, American Diabetes Association, 1660 Duke Street, Alexandria, VA 22314. (800) 232-3472 ext 2453 or 2330. Fax 703-683-1351. E-mail: meetings@diabetes.org.

**June 10–12, 1996**

*AOAC INTERNATIONAL Meeting, Midwest Regional Section*, Omaha. Contact Michael Carlson, University of Nebraska, 145 Veterinary Diagnostic Center, Fair Street and East Campus Loop, Lincoln, NE 68583-0907. (402) 472-1434. Fax 402-472-3094. E-mail: vets002@unlvm.unl.edu.

**June 10–14, 1996**

*VLAG/MENU International Advanced Course: the Regulation of Food Intake, and its Implications for Nutrition and Obesity*, Wageningen, Netherlands. Contact Cees de Graaf, Department of Human Nutrition, Wageningen Agricultural University, PO Box 8129, 6700 EV Wageningen, Netherlands. 31 317 484451. Fax 31 317 483342. E-mail: kees.degraaf@et3.voed.wau.nl.
June 15, 1996
Current Medical Management of Epilepsy, Scripps Clinic and Research Foundation, La Jolla, CA. CME credit available. Contact Department of Academic Affairs, 403C, Scripps Clinic and Research Foundation, 10666 North Torrey Pines Road, La Jolla, CA 92037. (619) 554-8556. Fax 619-554-6310.

June 16–19, 1996
Designing, Preparing and Delivering Research Diets, Pennington Biomedical Research Center. Sponsored by the National Institutes of Health. Contact Marlene Windhauser, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808. (504) 763-2599. Fax 504-763-2525.

June 16–21, 1996
12th International Cystic Fibrosis Congress, Jerusalem. Abstracts were due March 15. Contact D Katznelson, Cystic, PO Box 50006, Tel Aviv 61500, Israel. 972 3 5140000. Fax 972 3 5175674 or 972 3 5140077.

June 16–21, 1996

June 20, 1996
Past, Present, and Future of Peer Review, Natcher Conference Center, National Institutes of Health, Bethesda, MD. Sponsored by the Division of Research Grants, NIH. Registration is required for this free event. Contact Suzanne Fisher, Division of Research Grants, Room 2030 Rockledge Building, MSC 7720, 6701 Rockledge Drive, Bethesda, MD 20892-7720. (301) 435-0715. Fax 301-480-1987. E-mail: fys@drgpo.drg.nih.gov. Internet: www.drg.nih.gov.

June 20–22, 1996
21st National Nutrient Databank Conference, CB Pennington Jr Conference Center, Baton Rouge, LA. Contact Catherine Champagne, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808-4124. (504) 763-2553. Fax 504-763-3045. E-mail: champacmn@mhs.pbrc.edu. Internet: http://www.pbrc.edu/nndc/index.html.

June 20–22, 1996
Treatment of Obesity and Eating Disorders—New Paradigms for the 21st Century, Deaconess Hospital, Boston. CME credit available. Sponsored by Harvard Medical School and Tufts University School of Medicine. Endorsed by the North American Association for the Study of Obesity. Directed by George Blackburn, Edward Mascioli, William Dietz, R Armour Forse, and Andrew Brozman. Contact Susan Branco. (617) 632-0811. E-mail: sbbranco@warren.med.harvard.edu. Contact Harvard Medical School Department of Continuing Education. (617) 432-1525. E-mail: hms-cme@warren.med.harvard.edu.

June 26–28, 1996
AOAC INTERNATIONAL Meeting, Pacific Northwest Regional Section, Bellingham, WA. Contact Susan Coffey, Coffey Laboratory, Inc, 12423 NE Whitaker Way, Portland, OR 97230. (503) 254-1794. Fax 503-254-1452.

July 7–9, 1996
USP Open Conference: Botanicals for Medical and Dietary Uses—Standards and Information Issues, ANA Hotel, Washington, DC. Continuing Pharmaceutical Education credits available. After May 31, registrations accepted on a space-available basis. Contact Dorothy Chaconas, Meeting Manager, USP Open Conference on Botanicals, 12601 Twinbrook Parkway, Rockville, MD 20852. (301) 816-8282.

July 8–12, 1996
Lactation Educator Training Program, Loma Linda University Medical Center, Loma Linda, CA. Sponsored by the UCLA Extension. Accredited by the California State Board of Registered Nursing for four units of credit in nursing. Approved by the American Dietetic Association for 29 CE credits. Contact Health Sciences, UCLA Extension, 10995 Le Conte Avenue, Room 711, Los Angeles, CA 90024. (310) 825-9187.

July 10–13, 1996
ETRO/ISSFAL Meeting. Lipids, Membranes and Thrombosis: Fundamental Basis of Cardiovascular Disease and its Dietary Prevention, University of Maastricht, Netherlands. Contact Congresbureau Scem, Silvia de Bruin. 31 345 576642. Fax 31 345 571781.

July 27–28, 1996
Endocrinology and Diabetes Update, Grand Traverse Resort, Grand Traverse Village, MI. Sponsored by the University of Michigan Medical School Department of Internal Medicine. CME credit available. Contact Registrar, Towsley Center for Continuing Medical Education, Department of Postgraduate Medicine and Health Care Professions, University of Michigan Medical School, PO Box 1157, Ann Arbor, MI 48106-1157. (313) 763-1400.
August 24-25, 1996
Controversies in Nutrition, Cullen Auditorium, Baylor College of Medicine, Houston. Sponsored by Baylor College of Medicine, Department of Medicine, Section of Gastroenterology. AMA/PRA Category 1 credits available. Contact Carol Soroka, Conference Coordinator, Office of Continuing Education, Baylor College of Medicine, One Baylor Plaza-S104, Houston, TX 77030. (713) 798-6020.

August 29-30, 1996
American Institute for Cancer Research Annual Conference. Dietary Fat and Cancer: Genetic and Molecular Interactions, Loews L’Enfant Plaza Hotel, Washington, DC. Contact AICR Research Department. (202) 328-7744 or (800) 843-8114. E-mail: jcohn@capcon.net.

September 1-7, 1996
Cellular and Molecular Biology Second World Congress, Ottawa. Sponsored by the World Society of Cellular and Molecular Biology. Contact (613) 247-1344. Fax 613-247-2187 or 613-247-9317. E-mail: mhamelin@ottawa.net.

September 3-6, 1996
Leeds Course in Clinical Nutrition: Lipids, Leeds, United Kingdom. Sponsored by Departments of Medicine, St James’ University Hospital and Continuing Professional Education, University of Leeds. Sixteen hours CME credit and 17 hours A/B PGEA credit available. Contact Hilary Thackray, Department of Continuing Professional Education, Continuing Education Building, Springfield Mount, Leeds, LS2 9NG, United Kingdom.

September 6, 1996
Lipid Disorders Training Program—Advanced Update, Hyatt Regency Hotel, Baltimore. Sponsored by Johns Hopkins University School of Medicine and Johns Hopkins Lipid Disorders Clinic. Contact Program Coordinator, Office of Continuing Medical Education, Turner Building 20, 720 Rutland Avenue, Baltimore, MD 21205-2195. (410) 955-2959.

September 8-11, 1996
18th European Society of Parenteral and Enteral Nutrition Congress on Clinical Nutrition and Metabolism, Geneva. Contact ESPEN 96, c/o MCI Travel, Rue du Lyon 75, 1211 Geneva 13, Switzerland. Fax 41 22 344 28 08. Fax 41 22 344 64 77.

September 8-12, 1996
110th AOAC INTERNATIONAL Annual Meeting and Exposition, Orlando, FL. Contact AOAC Meetings Depart-
October 4–6, 1996
Frontiers in Lipid and Lipoprotein Research: Basic Science, Analytical, Clinical, and Public Health Applications, Stouffer Renaissance Hotel, Dallas. Sponsored by the Lipids and Lipoproteins Division of the American Association for Clinical Chemistry, the Centers for Disease Control and Prevention, and the American Heart Association. CME and ACCENT credit pending. Contact Paul Steiner, Medical Research Laboratories, 2 Tessonere Drive, Highland Heights, KY 41076. (606) 781-8877 ext 252. Fax 606-781-9310. E-mail: lipf@cecehll.em.cdc.gov.

October 4–7, 1996
American Society for Biochemistry and Molecular Biology Fall Symposium: Biological Roles of Oligosaccharides, Snow Bird, Salt Lake City, UT. Contact ASBMB Symposium Office, 9650 Rockville Pike, Bethesda, MD 20814-3996. (301) 530-7010. Fax 301-530-7014. E-mail: asbmb@asbmb.faseb.org.

October 4–8, 1996
26th Annual Meeting of the American Aging Association and the 11th Annual Meeting of American Clinical Gerontology Nutrition and Functional Aging, San Francisco. Contact Anita Barone, 2129 Providence Avenue, Chester, PA 19013. (610) 874-7550. Fax 610-876-7715. E-mail: ameraging@aol.com.

October 11–13, 1996
37th Annual Meeting of the American College of Nutrition, San Francisco. Abstracts were due April 19 for New Investigator Awards Competition and May 24 for open oral and poster sessions. Contact Stanley Wallach, American College of Nutrition, c/o Hospital for Joint Diseases, 301 East 17th Street, New York, NY 10003. (212) 777-1037. Fax 212-777-1103.

October 11–14, 1996
American Society for Biochemistry and Molecular Biology Fall Symposium: Subcellular Targeting of Signal Transduction Enzymes, Snow Bird, Salt Lake City, UT. Contact ASBMB Symposium Office, 9650 Rockville Pike, Bethesda, MD 20814-3996. (301) 530-7010. Fax 301-530-7014. E-mail: asbmb@asbmb.faseb.org.

October 17–19, 1996
Third Postgraduate Clinical Endocrinology Course of the European Federation of Endocrine Societies, Turin, Italy. Contact F Camanni or E Ghigo, Divisione di Endocrinologia, Ospedale Molinette, Corso Dogliotti, 14-10126 Turin, Italy. 39 11 6963156. Fax 39 11 6647421.

October 18–21, 1996
American Society for Biochemistry and Molecular Biology Fall Symposium: Molecular Recognition in G Protein Signaling, Keystone, CO. Contact ASBMB Symposium Office, 9650 Rockville Pike, Bethesda, MD 20814-3996. (301) 530-7010. Fax 301-530-7014. E-mail: asbmb@asbmb.faseb.org.

October 21–24, 1996
The American Dietetic Association 79th Annual Meeting and Exhibition, San Antonio Convention Center, San Antonio, TX. Contact The American Dietetic Association Meetings Services Team, 216 West Jackson Boulevard, Suite 800, Chicago, IL 60606-6995. (800) 877-1600 ext 4851 or 4862.

October 25–28, 1996
American Society for Biochemistry and Molecular Biology Fall Symposium: Computational Biology—Methods in Biomolecular Imaging, Whistler, British Columbia, Canada. Contact ASBMB Symposium Office, 9650 Rockville Pike, Bethesda, MD 20814-3996. (301) 530-7010. Fax 301-530-7014. E-mail: asbmb@asbmb.faseb.org.

November 1–3, 1996
New Developments in the Pathogenesis and Treatment of NIDDM, Radisson Resort, Scottsdale, AZ. Contact American Diabetes Association, Arizona Affiliate, Inc. 2328 West Royal Palm Road, Suite D, Phoenix, AZ 85021. (602) 995-1515. Fax 602-995-0004.

November 1–4, 1996
American Society for Biochemistry and Molecular Biology Fall Symposium: Cellular Signaling with Nitric Oxide, Keystone, CO. Contact ASBMB Symposium Office, 9650 Rockville Pike, Bethesda, MD 20814-3996. (301) 530-7010. Fax 301-530-7014. E-mail: asbmb@asbmb.faseb.org.

November 4–6, 1996
PUFA Barcelona '96, c/o F Hoffman-La Roche Ltd, Building 241/1001, CH-4002 Basel, Switzerland.

November 9–10, 1996
Selected Topics in Clinical Nutrition, Towsley Center, University of Michigan, Ann Arbor, MI. Sponsored by the University of Michigan Medical School and College of Pharmacy. Credit hours in Category 1 of the Physicians Recognition Award of the American Medical Association to be announced. An application has been submitted to the American Osteopathic Association for accreditation in Category 2A and to the American Dietetic Association. Other credits by specialty may apply. Contact Registrar. (800) 962-3555 or (313) 763-1400. Fax 313-936-1641.

December 15–18, 1996
New Frontiers in Screening for Microbial Biocatalysts, Ede, Netherlands. Organized by the Working Party Applied Biocatalysis and the Working Party Microbial Physiology of the European Federation of Biotechnology. Contact Symposium Secretariat, BIOCAT SCREENING 96, c/o Lidy Groot, Congress Events, PO Box 83005, 1080 AA Amsterdam, Netherlands. 31 20 679 32 18. Fax 31 20 675 82 36. E-mail: lidy.groot@inter.nl.net.

March 9–14, 1997
CERLIB Third Winter Research Conferences, Les Arcs 1800, France. Contact Arlette Alcaraz, Laboratoire de Biochimie C, CHU Grenoble BP 217, 38043 Grenoble Cedex 9 France. 33 76 76 57 54. Fax 33 76 76 56 64. E-mail: CERLIB@ujf-grenoble.fr.

March 23–27, 1997
Third International Congress on Vegetarian Nutrition, Loma Linda, CA. Sponsored by Loma Linda University. Contact Patricia K Johnston, Congress Program Chair, School of Public Health, Loma Linda University, Loma Linda, CA 92350. (909) 824-4578. Fax 909-824-4087. E-mail: pjohnston@sph.llu.edu.

May 25–28, 1997
Bioavailability '97 Symposium, Wageningen, Netherlands. Sponsored by the Graduate School VLAG (Advanced Studies in Nutrition, Food Technology, Agrobiotechnology and Health Sciences) in cooperation with the Working Party on Food Chemistry of the Federation of European Chemical Societies, the Federation of European Nutrition Societies, the European Academy of Nutrition Sciences, and the International Life Sciences Institute (Europe). Contact LA Duym, Department of Human Nutrition, Wageningen Agricultural University, PO Box 8129, 6700 EV Wageningen, Netherlands. 31 317 483054. Fax 31 317 483342. E-mail: lous.duym@secretariaat.voed.wau.nl. Internet: http://www.wau.nl/vlag/bioava.html.

April 6–10, 1997
Experimental Biology 97, New Orleans. Contact Experimental Biology 97, 9650 Rockville Pike, Bethesda, MD 20814-3998. (301) 530-7010. Fax 301-530-7014. E-mail: eb@nsfaseb.org. Internet: www.faseb.org.

June 25–27, 1997
12th Symposium on Echocardiography and Ninth Meeting of the International Cardiac Doppler Society, Erasmus University Congress Center, Rotterdam, Netherlands. Contact LMC Congress and Business Services, PO Box 593, 3700 AN Zeist, Netherlands. 31 343 515 134. Fax 31 343 533 357.

June 29–July 3, 1997

July 24–26, 1997
37th Annual Meeting of the American Society for Clinical Nutrition, Montreal. Contact ASCN Secretariat, 9650 Rockville Pike, Bethesda, MD 20814. (301) 530-7110. Fax 301-571-1863. E-mail: secretar@ascn.faseb.org.

July 27–August 1, 1997
16th International Congress of Nutrition, Montreal. Contact Congress Secretariat, IUNS '97, National Research Council Canada, Building M-19, Montreal Road, Ottawa, ON, Canada K1A 0R6. (613) 993-7271. Fax 613-993-7250.
Faculty Position in Preventive Nutrition Education

A new, full time faculty position is available in the Department of Preventive Medicine and Environmental Health, University of Iowa College of Medicine. The main mission of this position, partially supported by an endowment, is to develop and conduct high quality education programs for medical students, graduate physicians and other health professionals in the scientific basis and clinical skills of preventive nutrition, including patient assessment and counseling.

The successful candidate will have a doctoral degree in nutrition or an equivalent related field, a minimum of two years of post-doctoral experience in nutrition education and demonstrated high level abilities in both classroom and clinical nutrition instruction. Other desirable qualifications may include, but are not limited to, experience in preventive nutrition research, the preparation of audiovisual or written educational materials and accomplishments in a relevant behavioral science such as educational psychology, sociology, counseling psychology or medical anthropology. Depending on qualifications, the position may be at the rank of Assistant Professor, Associate Professor or Professor, and may be in tenured or non-tenured track. Salary will be commensurate with academic rank. The position will be available for the Fall 1996 semester.

Interested persons should submit a letter of application, a current curriculum vitae, and the names of three references to: LaRae Rudin, Recruitment Coordinator, Department of Preventive Medicine, 2800 Steindler Building, Iowa City, IA 52242-1008.

The University of Iowa is an Equal Opportunity and Affirmative Action employer.
Women and minorities are strongly encouraged to apply.

ASSISTANT PROFESSOR OF HUMAN NUTRITION AND FOODS
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

The Department of Human Nutrition and Foods invites applications for a tenure track, academic year appointment at the level of Assistant Professor (60% teaching, 40% research) that will be available August 16, 1996. The successful candidate will be expected to participate in the teaching of general and metabolic nutrition courses at the undergraduate and graduate levels; develop a laboratory-based research program capable of attracting outside funding which supports the department initiative in human metabolic studies directed toward human nutrition requirements and metabolism; advise undergraduate and graduate students and direct student research; and participate in department activities and professional service.

Applicants must hold a Ph.D. in nutrition or closely related area; strong training in the basic sciences and experience with human subjects and human metabolic studies are highly desirable; training in areas such as immunology, molecular biology, or biotechnology is desirable.

A letter of application, curriculum vitae, transcripts, summary of research and teaching interests (1-2 pages) and the names of three references whom you have requested to forward letters should be sent to Dr. Forrest W. Thye, Chair, Search Committee, Department of Human Nutrition and Foods, Virginia Tech, Blacksburg, VA 24061-0430; telephone: 540-231-4672; FAX: 540-231-3916. Review of applications will begin June 1, 1996 and continue until the position is filled.

Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify Eleanor Schlenker, Human Nutrition and Foods, 540-231-4672/TDD or 540-231-3749 by the application deadline.
Announcing an NIH Workshop

The Role of Dietary Supplements for Physically Active People

June 3-4, 1996

Natcher Conference Center, National Institutes of Health, Bethesda, Maryland

This scientific workshop will focus on the role of dietary supplements for physically active people who are interested in health promotion, in improving their personal performance in recreational sports, or in general fatigue reduction. The goal of the meeting is to develop a research agenda that will identify key areas warranting further investigation.

TO REGISTER for the workshop, please contact Ann Besignano at Technical Resources International, Inc., by mail at 3202 Tower Oaks Boulevard, Suite 200, Rockville, Maryland 20852-4200, by phone at 301-770-3153, by fax at 301-468-2245, or by e-mail at confdept@tech-res.com. This 2-day workshop is open to the public, and there is no charge for registration.

This workshop is sponsored by the NIH Office of Dietary Supplements, the American Society for Clinical Nutrition, and the American Institute of Nutrition and is cosponsored by a number of other NIH components.
Editor-in-Chief
The American Journal of Clinical Nutrition
Announcement of Search

The American Society for Clinical Nutrition, Inc, is conducting a search for Editor-in-Chief of The American Journal of Clinical Nutrition. This five-year appointment will begin in July 1997. Applications are due August 31, 1996.

Applicants should send a curriculum vitae and letter of interest discussing innovative plans for the scientific and educational content of the journal; description of the staffing, facilities, and financial requirements of the editorial office; and curriculum vitae for each member of the proposed editorial board. Detailed information about journal operations is available from the ASCN Secretariat upon request.

Apply to Chair, AJCN Search Committee
The American Society for Clinical Nutrition, Inc
9650 Rockville Pike
Bethesda, MD 20814-3998.
(301) 530-7110.