

Author Index

- Ahrens, R.A.: *See* Panda, P., 222
- Akoh, C.C. and Swanson, B.G. Absorbability and weight gain by mice fed methyl glucoside fatty acid polyesters: potential fat substitutes, 652
- Akoh, C.C. and Hearnberger, J.O. Effect of catfish and salmon diet on platelet phospholipid and blood clotting in healthy men, 329
- Akwari, O.E.: *See* Opara, E.C., 424
- Aljawad, N.S., Fryer, E.B., and Fryer, H.C. Effects of casein, soy, and whey proteins and amino acid supplementation on cholesterol metabolism in rats, 150
- Allgood, V.E. and Cidlowski, J.A. Novel role for vitamin B6 in steroid hormone action: a link between nutrition and the endocrine system, 523
- Aloia, R.C.: *See* Mlekusch, W., 616
- Anderson, G.H.: *See* Ng, L.T., 671
- Angulo-Monroy, O., Guesnet, P., and Durand, G.A. Effects of α -linolenic acid deficiency and age on oxidative phosphorylation and fatty acid composition of rat liver mitochondria, 484
- Avery, R.A. and Bettger, W.J. Effect of dietary Zn deficiency on 2,3-diphosphoglycerate and adenosine triphosphate concentrations in the rat erythrocyte, 395
- Azhar, S. Ca^{2+} -activated and phospholipid-dependent hepatic protein kinase (protein kinase C): A standardized method for the determination of enzyme activity, 165
- Bacon, J.R.: *See* Beattie, J.H., 512
- Banks, M.A., Porter, D.W., Martin, W.G., and Castranova, V. Ozone-induced lipid peroxidation and membrane leakage in isolated rat alveolar macrophages: protective effects of taurine, 308
- Bates, C.J., Edwards, G., Downes, R., and Coward, A. [^{13}C]adipic acid as a probe of fatty acid oxidation in human subjects: feasibility study and pilot trial of correction of endemic riboflavin deficiency in The Gambia, 214
- Battaglia, F.C.: *See* Carter, B.S., 4
- Beattie, J.H., Macdonald, A., Harthill, J.H., and Bacon, J.R. A technique to improve the determination of copper metabolism in small animals using stable isotopes, 512
- Behall, K.M.: *See* Panda, P., 222
- Benos, D.J.: *See* Fuller, C.M., 348
- Berger, R. and Sachan, D.S. Effects of supplementary levels of L-carnitine on blood and urinary carnitines and on the portal-systemic blood-ethanol concentrations in the rat, 382
- Berlin, E.: *See* Loo, G., 594
- Bernardo, J.: *See* Davies, T.A., 102
- Bettger, W.J.: *See* Avery, R.A., 395
- Bistrián, B.R.: *See* Ling, P.R., 553
- Blackburn, G.L.: *See* Ling, P.R., 553
- Blake, W.L. and Clarke, S.D. Type of dietary fat alters rat liver cell responsiveness to vasopressin, 87
- Bobilya, D.J., Briske-Anderson, M., Johnson, L.K., and Reeves, P.G. Zinc exchange by endothelial cells in culture, 565
- Bolze, M.S., Osborne, J.M., Vecbas-tiks, K.A., and White, M.E. Insulin-like growth factor binding proteins in rats respond to fasting and the protein and energy content of the re-feeding diet, 623
- Boyer, J.: *See* Lericque, B., 629
- Bijikurién, T.: *See* Selvam, R., 644
- Brachet, P., Gaertner, H., Tome, D., Dumontier, A.-M., Guidoni, A., and Puigserver, A. Transport of N- α (or N-E)-L-methionyl-L-lysine and acetylated derivatives across the rabbit intestinal epithelium, 387
- Brandsen, L.: *See* van den Berg, 314
- Brennan, L.: *See* Davies, T.A., 102
- Briske-Anderson, M.: *See* Bobilya, D.J., 565
- Brody, T. and Stokstad, E.L.R. Incorporation of the 2-ring carbon of histidine into folylpolyglutamate coenzymes, 492
- Bucci, L.R., Klenda, B.A., Hickson, J.F., Wolinsky, I. Ornithine levels in human serum after oral dosing measured by a colorimetric assay, 363
- Burch, W.K.: *See* Opara, E.C., 424
- Callum, M.E.: *See* Zhou, H.-R., 122
- Campbell, J.S.: *See* L'Abbe, M.R., 430
- Canary, J.J.: *See* Panda, P., 222
- Carreno, P.: *See* Lutz, M., 14
- Carroll, K.K.: *See* Khosla, P., 203; Kurowska, E.M., 656
- Carter, B.S., Moores, R.R., Jr., Battaglia, F.C. Placental transport and fetal and placental metabolism of amino acids, 4
- Castranova, V.: *See* Banks, M.A., 308
- Cederblad, A.: *See* Davidsson, L., 323
- Chapkin, R.S., Coble, K.J. Remodeling of mouse kidney phospholipid classes and subclasses by diet, 158
- Chavez, E.R.: *See* L'Abbe, M.R., 430
- Cidlowski, J.A.: *See* Allgood, V.E., 523
- Clarke, S.D.: *See* Blake, W.L., 87
- Cobb, M.M., Holloway, B.A., and Rivers, J.M. Ascorbic acid catabolism by gut microflora: studies in germ-free and conventional guinea pigs, 635
- Coble, K.J.: *See* Chapkin, R.S., 158
- Coburn, S.P.: *See* Mahuren, J.D., 449
- Cochary, E.F., Gershoff, S.N., and Sadowski, J.A. Effects of vitamin B-6 deficiency and aging on pyridoxal 5'-phosphate levels and glycogen phosphorylase activity in rats, 135
- Coward, A.: *See* Bates, C.J., 214
- Das, K.C., Manusselis, C., and Herbert, V. Determination of B12 (cobalamin) in serum and erythrocytes by radioassay, and of holo-transcobalamin II (holo-TC II) and holo-haptocorrin (holo-TC I and III) in serum by adsorbing holo-TC II on microfine silica, 455
- D.A. Sedlock: *See* Jensen, C.A., 368
- Davidsson, L., Cederblad, A., Lonn-erdal, B., and Sandstrom, B. Manganese absorption from mangold (*Beta vulgaris*): comparison of intrinsic and extrinsic labels, 323
- Davies, T.A., Bernardo, J., Lazzari, K., Brennan, L., and Simons, E.R. Cytosolic calcium determination: a fluorometric technique, 102
- Demigne, C.: *See* Levrat, M.-A., 31
- Deshmukh, D.R., Sarnaik, A.P., Mukhopadhyaya, A., and Portoles, M. Effect of arginine-free diet on plasma and tissue amino acids in young and adult ferrets, 72
- Downes, R.: *See* Bates, C.J., 214
- Duch, D.S. and Smith, G.K. Biosynthesis and function of tetrahydrobiopterin, 411
- Dufault, S.N.: *See* Johnson, W.T., 663
- Dumontier, A.-M.: *See* Brachet, P., 387
- Dupont, J.: *See* Krumhardt, B., 443; Lee, H.-C. C., 38
- Durand, G.A.: *See* Angulo-Monroy, O., 484
- Dyer, J.R. and Greenwood, C.E. The level of linoleic acid in neural cardiolipin is linearly correlated to the amount of essential fatty acids in the diet of the weanling rat, 477
- Ecelbarger, G.L., Lasekan, J.B., and Ney, D.M. In vivo triglyceride secretion and hepatic and plasma lipids in rats fed medium-chain triglycerides, tripelargonin, or corn oil, 260
- Edwards, G.: *See* Bates, C.J., 214
- Ferretti, A., Nelson, G.J., and Schmidt, P.C. Salmon-rich diet inhibits arachidonate cyclooxygenation in healthy men, 547
- Fields, M.: *See* Lewis, C.G., 97
- Fischer, P.W.F.: *See* L'Abbe, M.R., 430

- Flatt, J.P. Assessment of daily and cumulative carbohydrate and fat balances in mice, 193
- Opposite effects of variations in food intake on carbohydrate and fat oxidation in ad libitum fed mice, 186
- Fryer, E.B.: *See* Aljawad, N.S., 150
- Fryer, H.C.: *See* Aljawad, N.S., 150
- Fuller, C.M. and Benos, D.J. The physiology and biochemistry of sodium and chloride permeability pathways in epithelia, 348
- Francis, T.: *See* Ng, L.T., 671
- Gaertner, H.: *See* Brachet, P., 387
- Gage, D.A.: *See* Zhou, H.-R., 122
- Galbraith, R.A. Intermediary metabolism in *Leishmania mexicana*, 180
- Galibois, I., Pitre, F., Parent, G., and Savoie, L. Analysis of bound amino acids in the plasma of fed rats: a new preparation procedure, 25
- Gastaldi, M.: *See* Lerique, B., 629
- Gaudette, D.C., Holub, B. J. Docosahexaenoic acid (DHA) and human platelet reactivity, 116
- Gerlach, T.: *See* Zhou, H.-R., 122
- Gershoff, S.N.: *See* Cochary, E.F., 135
- Gislason, J., Jones, B., Lonnerdal, B., and Hambraeus, L. Intrinsic labeling of milk iron: effect of iron status on isotope transfer into goat milk, 375
- Gonzalez, I.: *See* Lutz, M., 14
- Greenwood, C.E.: *See* Dyer, J.R., 477; McGee, C.D., 79
- Guesnet, P.: *See* Angulo-Monroy, O., 484
- Guidoni, A.: *See* Brachet, P., 387
- Guilarte, T.R. Radiometric microbiological assay of B vitamins Part 1: assay procedure, 334
- Radiometric microbiological assay of B vitamins. Part 2: extraction methods, 399
- Hambraeus, L.: *See* Gislason, J., 375
- Hara, H. and Kiriya, S. In vivo evaluation of free chymotrypsin activity in the lumen using benzoyl-L-tyrosyl-p-aminobenzoic acid in portal cannulated rats, 437
- Harris, W.S.: *See* Szttern, M.I., 255
- Harthill, J.H.: *See* Beattie, J.H., 512
- Hayes, K.C.: *See* Trautwein, E.A., 571
- Hearnberger, J.O.: *See* Akoh, C.C., 329
- Hegsted, M.: *See* Windhauser, M.M., 541
- Helser, M.A., Hotchkiss, J.H., and Roe, D.A. Temporal influence of ascorbic acid dose on the endogenous formation on N-nitrosoproline and N-nitrosothiazolidine-4-carboxylic acid in humans, 268
- Hengtrakul, P., Mathias, M. and Lorenz, K. Effects of cereal alkylresorcinols on human platelet thromboxane production, 20
- Herbert, V.: *See* Das, K.C., 455
- Herr, F.M., McDonald, P.N., and Ong, D.E. Solubilization and partial characterization of lecithin-retinol acyltransferase from a rat liver, 503
- Hickson, J.F., Jr.: *See* Bucci, L.R., 363
- Holcombe, B.N.: *See* Jandacek, R.J., 142
- Hollenbach, E.J.: *See* Jandacek, R.J., 142
- Holloway, B.A.: *See* Cobb, M.M., 635
- Holub, B.J.: *See* Gaudette, D.C., 116
- Hoppner, K., and Lampi, B. Improving the response of the rat liver folate bioassay, 319
- Hotchkiss, J.H.: *See* Helser, M.A., 268
- Hubbard, V.S.: *See* Opara, E.C., 424
- Imaizumi, K., Sekihara, K., and Sugano, M. Hypocholesterolemic action of dietary phosphatidylethanolamine in rats sensitive to exogenous cholesterol, 251
- Istfan, N.: *See* Ling, P.R., 553
- Jandacek, R.J., Hollenbach, E.J., Holcombe, B.N., Kuehlthau, C.M., Peters, J.C., and Taulbee, J.D. Reduced storage of dietary eicosapentaenoic and docosahexaenoic acids in the weanling rat, 142
- Jensen, C.A., Weaver, C.M., and Sedlock, D.A. Iron supplementation and iron status in exercising young women, 368
- John, J., Patel, M.S., and Telang, S.D. Effects of maternal dietary protein content on cerebral ketone body-metabolizing enzymes in the progeny of rats, 604
- Johnson, L.K.: *See* Bobilya, D.J., 565
- Johnson, W.T. and Dufault, S.N. Copper deficiency alters protein kinase C mediation of thrombin-induced dense granule secretion from rat platelets, 663
- Johnston, C.S. Complement component C1q unaltered by ascorbate supplementation in healthy men and women, 499
- Jones, B.: *See* Gislason, J., 375
- Kappel, L.C.: *See* Windhauser, M.M., 541
- Katayama, T., Momota, Y., Watanabe, Y., and Kato, N. Elevated concentrations of α -tocopherol, ascorbic acid, and serum lipids in rats fed polychlorinated biphenyls, chlorobutanol, or phenobarbital, 92
- Kato, N.: *See* Katayama, T., 92
- Khosla, P., Samman, S., and Carroll, K.K. Decreased receptor-mediated LDL catabolism in casein-fed rabbits precedes the increase in plasma cholesterol levels, 203
- Kilman, P.G.: *See* Loo, G., 594
- Kiriya, S.: *See* Hara, H., 437
- Klenda, B.A.: *See* Bucci, L.R., 363
- Klurfeld, D.M.: *See* Kritchevsky, D., 133
- Kritchevsky, D., Tepper, S.A., and Klurfeld, D.M. Influence of flaxseed on serum and liver lipids in rats, 133
- Krumhardt, B. and Dupont, J. Rat platelet phospholipase A2 activity and thromboxane synthesis are concomitantly affected by dietary linoleic acid, 443
- Kuehlthau, C.M.: *See* Jandacek, R.J., 142
- Kurowska, E.M. and Carroll, K.K. Studies on the mechanism of induction of hypercholesterolemia in rabbits by high dietary levels of amino acids, 656
- L'Abbe, M.R., Fischer, P.W.F., Trick, K.D., Campbell, J.S., and Chavez, E.R. Dietary Se and tumor glutathione peroxidase and superoxide dismutase activities, 430
- Lampi, B.: *See* Hoppner, K., 319
- Lasekan, J.B.: *See* Ecelbarger, G.L., 260
- Laszlo, J.A. Modeling the cation-exchange properties of corn bran under simulated gastrointestinal ionic conditions, 609
- Lazzari, K.: *See* Davies, T.A., 102
- Lee, H.-C. C. and Dupont, J. Effects of dietary fatty acids on the activity of glucose transport in adipocytes, 38
- Lerique, B., Boyer, J., and Gastaldi, M. Changes in red blood cell phospholipid acylation during the fed-to-fasted transition, 629
- Levrat, M.-A., Remesy, C., and Demigne, C. Very acidic fermentations in the rat cecum during adaptation to a diet rich in amylase-resistant starch (crude potato starch), 31
- Lewis, C.G., Fields, M., and Lure, M.D. Severity of copper deficiency in rats fed fructose is not solely dependent on hepatic copper concentration: effects of adrenalectomy, 97
- Ling, P.R., Istfan, N., Blackburn, G.L., and Bistran, B.R. Effects of interleukin 1-B(IL-1) and combination of IL-1 and tumor necrosis factor on tumor growth and protein metabolism, 553
- Lönnedal, B.: *See* Davidsson, L., 323; Gislason, J., 375
- Loo, G., Berlin, E., Peters, R.C., Kilman, P.G., and Wong, H.Y.C. Effect of dietary corn, coconut, and menhaden oils on lipoprotein, liver, and heart membrane composition in the hypercholesterolemic rabbit, 594

- Lorenz, K.: *See* Hengtrakul, P., 20
 Lure, M.D.: *See* Lewis, C.G., 97
 Lutz, M., Carreno, P. and Gonzalez, I. Cholestasis and biliary excretion of lipids induced by ethinylestradiol in rats fed polyunsaturated oils, 14
 Macdonald, A.: *See* Beattie, J.H., 512
 McDonald, P.N.: *See* Herr, F.M., 503
 McGee, C.D. and Greenwood, C.E. Effect of qualitative differences in dietary fat on dexfenfluramine mediated depression of food intake and serotonin metabolism, 79
 Mahuren, J.D., Pauly, T.A., and Curnburn, S.P. Identification of 5-pyridoxic acid and 5-pyridoxic acid lactone as metabolites of vitamin B6 in humans, 449
 Mak, Y.T.: *See* Woo, J., 274
 Manusselis, C.: *See* Das, K.C., 455
 Martin, W.G.: *See* Banks, M.A., 308
 Mathias, M.: *See* Hengtrakul, P., 20
 Melloni, E. and Pontremoli, S. The calpain-calpastatin system: structural and functional properties, 467
 Milner, J.A.: *See* Santoro, M.F., 560
 Mlekusch, W., Taupe, A.M., Vrecko, K., Schmid, P., and Aloia, R.C. Effect of a high fat diet on plasma lipids, lipoprotein lipase, lecithin cholesterol acyltransferase, and insulin function in adult rabbits, 616
 Momota, Y.: *See* Katayama, T., 92
 Moores, R.R., Jr.: *See* Carter, B.S., 4
 Mukhopadhyay, A.: *See* Deshmukh, D.R., 72
 Nelson, G.J.: *See* Ferretti, A., 547
 Ney, D.M.: *See* Ecelbarger, G.L., 260
 Ng, L.T., Wong, D.Y., Francis, T. and Anderson, G.H. Ion-exchange chromatography for physiological fluid amino acid analysis, 671
 Ong, D.E.: *See* Herr, F.M., 503
 Opara, E.C., Hubbard, V.S., Burch, W.K., and Akwari, O.E. Homologous desensitization of pancreatic beta cells to glucose response by polyunsaturated fatty acids, 424
 Osborne, J.M.: *See* Bolze, M.S., 623
 Panda, P., Reiser, S., Scholfield, D.J., Behall, K.M., Ahrens, R.A., and Canary, J.J. Carbohydrate tolerance in humans as influenced by sex, age, and erythrocyte superoxide dismutase activity, 222
 Parent, G.: *See* Galibois, I., 25
 Parent, M.E., Reck, G.P., Urberg, M., and Zemel, M.B. Magnesium potentiation of iron-transferring binding in 0.10 M phosphate: kinetic and structural studies, 535
 Patel, M.S.: *See* John, J., 604
 Pauly, T.A.: *See* Mahuren, J.D., 449
 Peters, J.C.: *See* Jandacek, R.J., 142
 Peters, R.C.: *See* Loo, G., 594
 Pitre, F.: *See* Galibois, I., 25
 Pontremoli, S.: *See* Melloni, E., 467
 Porter, D.W.: *See* Banks, M.A., 308
 Portoles, M.: *See* Deshmukh, D.R., 72
 Puigserver, A.: *See* Brachet, P., 387
 Ravichandran, V.: *See* Selvam, R., 245
 Reck, G.P.: *See* Parent, M.E., 535
 Reeves, P.G.: *See* Bobilya, D.J., 565
 Reiser, S.: *See* Panda, P., 222
 Remesy, C.: *See* Levrat, M-A., 31
 Rivers, J.M.: *See* Cobb, M.M., 635
 Roe, D.A.: *See* Helser, M.A., 268
 Rogers, A.E. Diet and toxicity of chemicals, 579
 Russell, R.M.: *See* Tang, G., 210
 Sachan, D.S.: *See* Berger, R., 382
 Sadowski, J.A.: *See* Cochary, E.F., 135
 Samman, S.: *See* Khosla, P., 203
 Sandstrom, B.: *See* Davidsson, L., 323
 Santoro, M.F. and Milner, J.A. In vitro effects of selenodiglutathione on canine mammary cells, 560
 Sardesai, V.M. Natural and synthetic intense sweeteners, 236
 Sardesai, V.M. and Waldshan, T. H. Natural and synthetic intense sweeteners, 236
 Sarnaik, A.P.: *See* Deshmukh, D.R., 72
 Savoie, L.: *See* Galibois, I., 25
 Schmid, P.: *See* Mlekusch, W., 616
 Schmidt, P.C.: *See* Ferretti, A., 547
 Scholfield, D.J.: *See* Panda, P., 222
 Sekihara, K.: *See* Imaizumi, K., 251
 Selhub, J.: *See* Varela-Moreiras, G., 44
 Selvam, R. and Bijikurien, T. Methionine feeding prevents kidney stone deposition by restoration of free radical mediated changes in experimental rat urolithiasis, 644
 Selvam, R. and Ravichandran, V. Lipid peroxidation in liver of vitamin B-6 deficient rats, 245
 Seyoum, E.: *See* Varela-Moreiras, G., 44
 Simons, E.R.: *See* Davies, T.A., 102
 Sinkeldam, B.J.: *See* van den Berg, 314
 Smith, G.K.: *See* Duch, D.S., 411
 Stokstad, E.L.R.: *See* Brody, T., 492
 Sugano, M.: *See* Imaizumi, K., 251
 Swaminathan, R.: *See* Woo, J., 274
 Swanson, B.G.: *See* Akoh, C.C., 652
 Switzer, B.R. Determination of hydroxyproline in tissue, 229
 Sztern, M.I., Harris, W.S. Short-term effects of fish oil on human plasma lipid levels, 255
 Tang, G. and Russell, R. M. Formation of all-*trans*-retinoic acid and 13-*cis*-retinoic acid from all-*trans*-retinyl palmitate in humans, 210
 Taulbee, J.D.: *See* Jandacek, R.J., 142
 Taupe, A.M.: *See* Mlekusch, W., 616
 Telang, S.D.: *See* John, J., 604
 Tepper, S.A.: *See* Kritchevsky, D., 133
 Tercyak, A.M. Determination of cholesterol and cholesterol esters, 281
 Tome, D.: *See* Brachet, P., 387
 Trautwein, E.A. and Hayes, K.C. Evaluating taurine status: determination of plasma and whole blood taurine concentration, 571
 Trick, K.D.: *See* L'Abbe, M.R., 430
 Urberg, M.: *See* Parent, M.E., 535
 van den Berg, H., Brandsen, L., and Sinkeldam, B.J. Vitamin B-12 content and bioavailability of spirulina and nori in rats, 314
 Varela-Moreiras, G., Seyoum, E. and Selhub, J. Combined affinity and ion pair liquid chromatographies for the analysis of folate distribution in tissues, 44
 Vecbastiks, K.A.: *See* Bolze, M.S., 623
 Vrecko, K.: *See* Mlekusch, W., 616
 Waldshan, T.H.: *See* Sardesai, V., 236
 Watanabe, Y.: *See* Katayama, T., 92
 Weaver, C.M.: *See* Jensen, C.A., 368
 White, M.E.: *See* Bolze, M.S., 623
 Windhauser, M.M., Kappel, L.C., and Hegsted, M. The humoral immune response in marginally and severely magnesium deficient rats, 541
 Wolinsky, I.: *See* Bucci, L.R., 363
 Wong, D.Y.: *See* Ng, L.T., 671
 Wong, H.Y.C.: *See* Loo, G., 594
 Woo, J., Mak, Y.T. and Swaminathan, R. Nutritional status of general medical patients—influence of age and disease, 274
 Zemel, M.B.: *See* Parent, M.E., 535
 Zhou, H.-R., Callum, M.E., Gerlach, T., Gage, D.A., and Zile, M.H. Immunogens for the preparation of retinoic acid antibodies, 122
 Zile, M.H.: *See* Zhou, H.-R., 122

Subject Index

- Absorption, 652
- Acesulfame K, 236
- Acetylated dipetide, 387
- Activated Sepharose, 44
- Acylcarnitines, 382
- Acyltransferase, 616
- Adipic acid, 214
- Adipocytes, 38
- Affinity chromatography, 44
- Aging, 135
- Algae, 314
- Alkylresorcinols, 20
- Amino acids, 25, 72
- Amino acid supplementation, 150
- Antibody, 541
- Antioxidant(s), 245, 308
- Appetite, 236
- Arginine, 72
- Ascorbic acid, 268, 499
- Ascorbic acid decarboxylation, 635
- Aspartame, 236
- ATP, 395

- B12 analogue, 455
- Benzoyl-L-tyrosyl-*p*-aminobenzoic acid, 437
- Biliary lipids, 14
- Bioassay, 319
- Bioavailability, 314
- Biosynthesis, 411
- Blood 3-hydroxybutyrate, 604
- Blood clotting, 329
- Blood ethanol, 382
- Blood transport protein, 535
- Brain, 135
- Brain weight, 604

- Calculi-producing diet, 644
- Cancer, 430
- Carbohydrate balance, 186
- Carbohydrate metabolism, 193
- Carbohydrate oxidation, 186
- Carbohydrate selection, 79
- Carbon-13, 214
- Cardiolipin, 477
- L-Carnitine supplement, 382
- Casein, 203, 437
- Catfish, 329
- Cellular zinc pools, 565
- Cell walls, 609
- Cereals, 20
- Ceruloplasmin, 222
- Cholestasis, 14
- Cholesterol, 92, 133, 255, 260, 594
- Cholesterol esterification, 656
- Cholesterylester, 251
- Chymotrypsin, 437
- Citrulline, 363
- Clofibrate, 92
- Cobalamin, 455
- Complement component C1q, 499
- Copper deficiency, 663

- Corticosterone, 97
- Crude potato starch, 31

- Deproteinization, 25
- Desaturation, 60
- Desensitized islets, 424
- Developing hypercholesterolemia, 203
- Diabetes, 60
- Diet, 616
- Dietary EFA, 477
- Dietary fat, 443, 477
- Dietary fiber, 609
- Dietary oils, 158
- Dietary amino acids, 656
- Dietary protein, 150, 604
- Disease states, 411
- DMBA-induced tumors, 430
- Docosahexaenoic medium-chain, 142

- Eicosapentaenoic acid, 142, 255
- Elongation, 60
- Endogenous formation, 268
- Endothelial cells, 565
- Energy, 142
- Erythrocyte, 395
- Ethanol absorption, 382
- Ethanolamine, 251
- Ethanol metabolism, 382
- Ethinylestradiol, 14
- Exercise, 368
- Extrinsic label, 323

- Fecal lipids, 150
- Fasting, 60, 629
- Fat, 616
- Fat balance, 186
- Fat metabolism, 193
- Fat oxidation, 186, 214
- Fat substitute, 652
- Fatty acids, 31, 38, 60, 424
- Fatty acylation, 629
- FCR, 203
- Feeding, 79
- Feeding behavior, 79
- n*-Fenfluramine, 79
- Ferrets, 72
- Fish oil, 87, 255
- Flaxseed, 133
- Folate, 44
- Folate coenzymes, 492
- Folate polyglutamates, 44
- Folypolyglutamates, 492
- Food intake, 186

- Gastric pH, 268
- Germ-free guinea pig, 635
- Globulins, 541
- Glucagon, 60
- Glucocorticoid, 97
- Glucose, 222
- Glucose transport, 38
- Glutathione peroxidase, 430
- Glycogen phosphorylase, 87, 135
- Goat, 375

- Growth, 484
- Gut microflora, 635

- Hepatocytes, 87
- Histidine, 492
- HMGCoA reductase, 656
- Holo-haptocorrin, 455
- Human platelets, 20
- n*-3-hydroxybutyrate dehydrogenase, 604
- Hyperammonemia, 72
- Hypercholesterolemia, 656

- IGF binding proteins, 623
- Immunity, 411
- Indirect calorimetry, 193
- Insulin, 60, 222, 616
- Insulin-like growth factor-I, 623
- Insulin secretion, 236, 424
- Interleukin 1, 553
- Intestinal absorption, 387
- Intestinal absorption of α -tocopherol, 92
- Intrinsic label, 323, 375
- In vivo synthesis, 547
- Ion flux, 308
- Ion pair liquid chromatography, 44
- Iron, 97, 368, 375, 535
- Iron supplementation, 368
- Iron transfer, 375
- Isopeptide, 387

- Kidney, 158
- Kidney stone deposition, 644

- Lactic acid, 31, 222
- LCAT, 616
- LDL catabolism, 203
- LDL receptor, 594
- Lecithin-cholesterol acyltransferase, 503
- Lecithin-retinol acyltransferase, 503
- Linolenic acid, 133, 443
- α -Linolenic acid deficiency, 484
- Lipid peroxidation, 245
- Lipogenesis, 260
- Lipoprotein, 616
- Liver, 135, 245
- Liver folate, 319
- Liver lipids, 150
- Low density lipoproteins, 255
- Lysine, 387

- Macronutrient intake, 79
- Magnesium, 535
- Magnesium deficiency, 541
- Manganese, 323
- Mass spectrometry, 214
- Maternal diet, 604
- MCT, 260
- Metabolism, 210
- Metabolizable energy, 193
- Methionine, 387, 644
- Methyl glucoside polyester, 652

- Mice, 652
 Milk, 375
 Mineral bioavailability, 609
 Mitochondria, 484
 Muscle, 135

 n-3 Fatty acid, 594
 n-6 Fatty acid, 594
 Natural sweetners, 236
 Neoplastic cell growth, 560
 Neural linoleic acid, 477
 N-nitrosoamino acid, 268
 N-nitrosoproline, 268
 N-nitrosothiazolidine-4-carboxylic acid, 268
 Omega-3 polyunsaturates, 547
 Oral dose, 210
 Ornithine, 363
 Ornithine assay, 363
 Oxidative phosphorylation, 484
 3-Oxoacid CoA-transferase, 604
 Ozone exposure, 308

 Pectin, 92
 Peptides, 25
 PGE-metabolite, 547
 Phosphatidyl-choline, 503
 Phosphatidylethanolamine, 251
 Phosphoethanolamine, 251
 Phospholipase, 443
 Phospholipase A2, 443
 Phospholipid(s), 158, 329, 629
 Plasma, 25
 Plasma lipids, 255, 629
 Plasma amino acids, 656
 Platelets, 443, 663

 Pneumocytes, 308
 Polyunsaturated fatty acids, 14, 158
 Portal absorption, 437
 Prostaglandins, 547
 Protein kinase C, 663
 Protein breakdown, 553
 Protein calorie malnutrition, 274
 Protein-energy deficiency, 623
 Protein selection, 79
 Protein synthesis, 553
 Pterins, 411
 PUFA, 594
 Pyridoxal 5'-phosphate, 135
 5-Pyridoxic acid, 449

 Rabbits, 656
 Radioassay, 455
 Rat(s), 87, 133, 319, 437, 541, 629
 Rat cecum, 31
 Red blood cells, 629
 Repletion, 319
 Retinoic acid, 210
 Retinoic acid oxime, 122
 Retinoic acid-specific antigens, 122
 Retinoids, 122
 Retinol, 503
 Retinyl esters, 503
 Riboflavin deficiency, 214
 Rose hip seed oil, 14

 Secretion, 663
 Saccharin, 236
 Salmon, 329
 Saturated fat, 79
 Selenium, 430
 Selenium metabolism, 560

 Selenodiglutathione, 560
 Serum lipids, 133, 150
 Soybean protein, 437
 Soy protein, 203
 Starch, 97
 Superoxide dismutase, 430

 Taurine, 308
 Thromboxane, 20, 443
 α -Tocopherol, 92
 Transferrin, 535
 Triglycerides, 222, 255, 260
 Tripelargonin, 260
 Triton WR-1339, 260
 Tumor growth, 553
 Tumor necrosis factor, 553

 Uric acid, 222
 Urinary excretion, 547
 Urolithiasis, rat, 644

 Vasopressin, 87
 Vitamin A, 122, 210
 Vitamin B-12, 314, 455
 Vitamin B-12 analogues, 314
 Vitamin B-6, 135, 245, 449

 Weanling rat, 477
 Weight lifters, 363
 Whole body counting, 323

 Xenobiotics, 92

 Zinc deficiency, 395
 Zinc ligands, 565