

Author Index

- Abuirmeileh, N.M. *See* Muwalla, M.M., 518
Allen, O.B. *See* DiFrancesco, L., 155
Al-Othman, A.A. *See* Yount, N.Y., 21
Alpers, D.H. *See* Ramasamy, M., 213
Anuradha, C.V. *See* Selvam, R., 653
Atkinson, J.L. *See* Johnston, W.L., 49
Azais-Braesco, V., Macaire, J.-P., Bellenand, P., Robertson, L.W., and Pascal, G. Effects of two prototypic polychlorinated biphenyls (PCBs) on lipid composition of rat liver and serum, 350
- Babayan, V.K. *See* Crosby, L.E., 41; Swenson, E.S., 462
Bailey, W.R. *See* Prohaska, J.R., 149
Barnard, D.E., Sampugna, J., Berlin, E., Bhathena, S.J., and Knapka, J.J. Dietary *trans* fatty acids modulate erythrocyte membrane fatty acyl composition and insulin binding in monkeys, 190
Barzanti, V., Maranesi, M., Solaini, G., and Turchetto, E. Dietary lipid effects on microsome fatty acid composition of liver and brain, on liver glucose-6-phosphatase, and on brain 5'-nucleotidase activity in the rat, 305
Bazan, N.G. *See* Marcheselli, V.L., 382
Beal, T. *See* Lewis, C.G., 160
Behrens, W.A. and Madere, R. Kinetics of tissue RRR- α -tocopherol depletion and repletion. Effect of cold exposure, 528
Bellenand, P. *See* Azais-Braesco, V., 350
Belonje, B. *See* Shah, B.G., 585
Berardino, M.B., Roingeard, F.C., and Fukagawa, N.K. Plasma tryptophan and tyrosine concentrations: determination using high performance liquid chromatography and fluorometric detection, 220
Berdanier, C.D. *See* Pan, J.-S., 244
Berlin, E. *See* Barnard, D.E., 190
Bhathena, S.J. *See* Barnard, D.E., 190
Bistrian, B.R. *See* Crosby, L.E., 41; Swenson, E.S., 462
Blackburn, G.L. *See* Crosby, L.E., 41; Swenson, E.S., 462
Blaner, W.S. *See* Davila-Bloom, M.E., 262
Bonner, S.J. *See* Klain, G.J., 578
Borel, P., Martigne, M., Senft, M., Garzino, P., LaFont, H., and Laiorn, D. Effect of wheat bran and wheat germ on the intestinal uptake of oleic acid, monoolein, and cholesterol in the rat, 28
Borum, P.R. Carnitine: determination of total carnitine using a radioenzymatic assay, 111
Boyne, R. *See* Chesters, J.K., 107
Broitman, S.A. *See* Fox, E.S., 620
Broughton, K.S. *See* Kinsella, J.E., 123
Brown, D.L. Lysine flux in dry and lactating dairy goats, 371
Burk, R.F. *See* Piao, J.H., 427
Burri, B.J., Neidlinger, T.R., Van Loan, M., and Keim, N.L. Effect of low-calorie diets on plasma retinol-binding protein concentrations in overweight women, 484
- Caldwell, J. *See* Hart, R.W., 396
Cantey, L.C. *See* MacLaughlin, J.A., 81
Carroll, J.E. *See* McGuire, B.S., 410
Chancey, V.F. *See* McGuire, B.S., 410
Chao, C.-K., Zeisel, S.H. Formation of trimethylamine from dietary choline by *Streptococcus sanguis* I, which colonizes the mouth, 89
Chen, T.C., Turner, A.K., and Holick, M.F. A method for the determination of the circulating concentration of 1,25-dihydroxyvitamin D, 320
A method for the determination of the circulating concentration of vitamin D, 272
Methods for the determination of the circulating concentration of 25-hydroxyvitamin D, 315
Chesters, J.K., Boyne, R., and Petrie, L. Effects of growth, food intake, and dietary zinc on diadenosine tetraphosphate concentrations in rats, 107
Cho, Y.-O. *See* Yu, J.Y., 310
Coburn, S.P. *See* Mahuren, J.D., 659
Colli, S. *See* Mosconi, C., 565
Crosby, L.E. *See* Swenson, E.S., 462
Crosby, L.E., Swenson, E.S., Babayan, V.K., Blackburn, G.L., and Bistrian, B.R. Effect of structured lipid-enriched total parenteral nutrition in rats bearing Yoshida sarcoma, 41
- daCosta, K.A. *See* Pomfret, E.A., 533; Zeisel, S., 55
Darcey, S. *See* Scholfield, D.J., 362
Davila-Bloom, M.E., Blaner, W.S., and Goodman, D.S. Monoclonal antibody studies of the antigenic determinants of human plasma retinol-binding protein, 262
Dhur, A., Galan, P., Hannoun, C., Huot, K. and Hercberg, S. Effects of iron deficiency upon the antibody response to influenza virus in rats, 629
DiFrancesco, L., Allen, O.B., Mercer, N.H. The effect of fasting time on plasma total cholesterol concentration in mongolian gerbils, 155
- Emerick, R.J. and Kayongo-Male, H. Interactive effects of dietary silicon, copper, and zinc in the rat, 35
Silicon facilitation of copper utilization in the rat, 487
- Fasulo, J.M. *See* Patton, G.M., 493; Patton, G.M., 549
Fernstrom, J.D. Aromatic amino acids and monamine synthesis in the central nervous system: influence of the diet, 508
Fields, M. *See* Lewis, C.G., 160; Scholfield, D.J., 362; Silverman, S., 98
Finkelstein, J.D. Methionine metabolism in mammals, 228
Firman, J.D. *See* Remus, J.C., 636
Fox, E.S., Thomas, P., Broitman, S.A. Hepatic mechanisms for clearance and detoxification of bacterial endotoxins, 620
Freyer, E.B. *See* Navder, K.P., 640
Fryer, H.C. *See* Navder, K.P., 640
Fukagawa, N.K. *See* Berardino, M.B., 220
Furuichi, Y., Oogida, T., Mitsui, C., Matsuno, M., and Takahashi, T. Nutritional characteristics of a neoglycoprotein, casein modified covalently by glucose, 196
- Galan, P. *See* Dhur, A., 629
Galli, C. *See* Mosconi, C., 565
Garcia-Lopez, J.S. *See* Lee, K., 648
Garzino, P. *See* Borel, P., 28
Goodman, D.S. *See* Davila-Bloom, M.E., 262
Gregor, J.L. *See* Kaup, S.M., 542
Gross, A.M. *See* Prohaska, J.R., 149
Gupta, C. *See* Singh, U., 434
- Hannoun, C. *See* Duhr, A., 629
Hart, R.W., Turturro, A., Newberne, P.M., Schrager, T.F., Hathcock, J.N., Caldwell, J., Sutton, J.D., and Howes, A.J. Nutritional modulation of xenobiotic metabolism, 396
Hathcock, J.N. *See* Hart, R.W., 396
Hatle, K. *See* Zak, A., 472
Hercberg, S. *See* Dhur, A., 629
Hill, K.E. *See* Piao, J.H., 427
Hilton, J.W. *See* Johnston, W.L., 49
Holick, M.F. *See* Chen, T.C., 272; Chen, T.C., 315; Chen, T.C., 320; MacLaughlin, J.A., 81

Author Index

- Hong, J. *See Schuette, S.*, 355
Howard, J.C. *See McGuire, B.S.*, 410
Howes, A.J. *See Hart, R.W.*, 396
Hrabak, P. *See Zak, A.*, 472
Hunt, R.W., Jr. *See Piao, J.H.*, 427
Huot, K. *See Dhur, A.*, 629
- Itoh, H. *See Matsunobu, S.*, 167
- Janghorbani, M. *See Schuette, S.*, 355; Ting, B.T.G., 249
Janghorbani, M., Mooers, C.S., Ting, B.T.G., Smith, M., and Lynch, N.E. Effect of acute selenium restriction on whole body endogenous selenium and selenite-exchangeable metabolic pool in the adult rat, 103
Janghorbani, M. and Ting, B.T.G. Stable isotope methods for studies of mineral/trace element metabolism, 4
Johnston, W.L., Atkinson, J.L., Hilton, J.W., Were, K.E. Effect of dietary tryptophan on plasma and brain tryptophan, brain serotonin, and brain 5-hydroxyindoleacetic acid in rainbow trout, 49
- Kaup, S.M. and Greger, J.L. Effect of various chloride salts on the utilization of phosphorus, calcium, and magnesium, 542
Kayongo-Male, H. *See Emerick, R.J.*, 35; Emerick, R.J., 487
Keim, N.L. *See Burri, B.J.*, 484
Kinsella, J.E., Broughton, K.S., and Whelan, J.W. Dietary unsaturated fatty acids: interactions and possible needs in relation to eicosanoid synthesis, 123
Klain, G.J., Winders, R.L., and Bonner, S.J. Sequential changes in alanine metabolism following partial hepatectomy in the rat, 578
Knapka, J.J. *See Barnard, D.E.*, 190
Korte, J.J. *See Prohaska, J.R.*, 149
Kuchan, M.J., Santoro, M.F., and Milner, J.A. Consequences of selenite supplementation on the growth and metabolism of cultures of canine mammary cells, 478
- Lafont, H. *See Borel, P.*, 28
Lairon, D. *See Borel, P.*, 28
Lee, C.C. *See Ting, B.T.G.*, 249
Lee, K. and Garcia-Lopez, J.S. Non-everted oxygenated rat intestinal segments as a measure of neutral detergent fiber effects on iron absorption, 648
Lei, K.Y. *See Yount, N.Y.*, 21; Zhang, J.J., 291
Lewis, C. *See Silverman, S.*, 98
Lewis, C.G., Fields, M., and Beal, T. Effect of changing the type of dietary carbohydrate or copper level of copper-deficient, fructose-fed rats on tissue sorbitol concentrations, 160
- Lönnardal, B. *See Sigman, M.*, 239; Sigman, M., 572
Lynch, N.E. *See Janghorbani, M.*, 103
- Macaire, J.-P. *See Azais-Braesco, V.*, 350
McGuire, B.S., Carroll, J.E., Chancey, V.F., and Howard, J.C. Mitochondrial enzymes responsible for oxidizing medium-chain fatty acids in developing rat skeletal muscle, heart, and liver, 410
MacLaughlin, J.A., Cantley, L.C. and Holick, M.F. 1,25(OH)₂D₃ Increases calcium and phosphatidylinositol metabolism in differentiating cultured human keratinocytes, 81
McNamara, D.J. *See Yount, N.Y.*, 21
Madere, R. *See Behrens, W.A.*
Mahadevappa, V.G. *See Piche, L.A.*, 206
Mahan, D.C. *See Reinhart, G.A.*, 592
Mahuren, J.D. and Coburn, S.P. B₆ vitamers: cation exchange HPLC, 659
Maranesi, M. *See Barzanti, V.*, 305
Marcheselli, V.L. and Bazan, N.G. Quantitative analysis of fatty acids in phospholipids, diacylglycerols, free fatty acids, and other lipids, 382
Mares, P. *See Zak, A.*, 472
Martigne, M. *See Borel, P.*, 28
Mason, J.B. *See Shoda, R.*, 257
Matsuno, M. *See Furuichi, Y.*, 196
Matsunobu, S., Terashima, Y., Senshu, T., Sano, H., and Itoh, H. Insulin secretion and glucose uptake in hypomagnesemic sheep fed a low magnesium, high potassium diet, 167
Mercer, N.H. *See DiFrancesco, L.*, 155
Milner, J.A. *See Kuchan, M.J.*, 478
Mitsui, C. *See Furuichi, Y.*, 196
Molina, M.T., Vazquez, C.M., and Ruiz-Gutierrez, V. Changes in fatty acid composition of rat liver and serum induced by distal small bowel resection, 299
Montet, J.-C. *See Zhao, X.M.*, 420
Mooers, C.S. *See Janghorbani, M.*, 103
Mosconi, C., Colli, S., Tremoli, E., and Galli, C. Dietary n-9, n-6 and n-3 fatty acids modify linoleic acid more than arachidonic acid levels in plasma and platelet lipids and minimally affect platelet thromboxane formation in the rabbit, 565
Murphy, M.B. Dietary fatty acids and membrane protein function, 68
Muwalla, M.M., and Abuirmeileh, N.M. Suppression of avian hepatic cholesterologenesis by dietary ginseng, 518
- Navder, K.P., Fryer, E.B., and Fryer, H.C. Effects of skim milk, skim milk yogurt, orotic acid, and uric acid on lipid metabolism in rats, 640
Neidlinger, T.R. *See Burri, B.J.*, 484
Newberne, P.M. *See Hart, R.W.*, 396
- Olsson, U. Glutathione peroxidase activities during selenium depletion of adult female rats and during selenium repletion of their offspring, 143
Ono, K. *See Scholfield, D.J.*, 362
Oogida, T. *See Furuichi, Y.*, 196
- Pan, Ju-Shin and Berdanier, D.C. Thyroxine effects on parameters of glucose turnover in BHE rats fed menhaden oil, 244
Pascal, G. *See Azais-Braesco, V.*, 350
Patton, G.M., Fasulo, J.M., and Robbins, S.J. Analysis of lipids by high performance liquid chromatography: Part I, 493
Analysis of lipids by high performance liquid chromatography. Part II: Phospholipids, 549
Petrie, L. *See Chesters, J.K.*, 107
Piao, J.H., Hill, K.E., Hunt, R.W., Jr., Burk, R.F. Effect of selenium deficiency on tissue taurine concentration and urinary taurine excretion in the rat, 427
Piche, L.A. and Mahadevappa, V.G. Effect of dietary lipid on collagen- and adenosine diphosphate-induced platelet aggregation and thromboxane A₂ synthesis in the rat, 206
Pomfret, E.A., daCosta, K.A., Zeisel, S.H. Effects of choline deficiency and methotrexate treatment upon rat liver, 533
Prohaska, J.R. Biochemical changes in copper deficiency, 452
Development of copper deficiency in neonatal mice, 415. *See also Ting, B.T.G.*, 249
Prohaska, J.R., Bailey, W.R., Gross, A.M., and Korte, J.J. Effect of dietary copper deficiency on the distribution of dopamine and norepinephrine in mice and rats, 149
- Ramasamy, M., Alpers, D.H., Saxena, V., and Seetharam, B. Effect of lectins on the cobalamin-protein binding reactions: implications for the tissue uptake of cobalamin, 213
Reeves, P.G., and Saari, J.T. Effect of *cis*-diamminedichloroplatinum (II) on metallothionein induction and trace element metabolism in rats fed different amounts of dietary zinc, 374
Reinhart, G.A., Simmen, F.A., Mahan, D.C., Simmen, R.C.M., White, M.E. Isolation, characterization, and development expression of pig

- intestinal fatty acid binding proteins, 592
 Reiser, S. *See Scholfield, D.J.*, 362
 Remus, J.C. and Firman, J.D. Effect of thiamin deficiency on energy metabolites in the turkey, 636
 Robertson, L.W. *See Azais-Braesco, V.*, 350
 Robins, S.J. *See Patton, G.M.*, 493; *Patton, G.M.*, 549
 Roingeard, F.C. *See Berardino, M.B.*, 220
 Rosenberg, I.H. *See Shoda, R.*, 257
 Ruiz-Gutierrez, V. *See Molina, M.T.*, 299
 Saari, J.T. *See Reeves, P.G.*, 374
 Saltiel, A.R. Signal transduction in insulin action, 180
 Sampugna, J. *See Barnard, D.E.*, 190
 Sano, H. *See Matsunobu, S.*, 167
 Santoro, M.F. *See Kuchan, M.J.*, 478
 Saxena, V. *See Ramasamy, M.*, 213
 Scholfield, D.J., Reiser, S., Fields, M., Steele, N.C., Smith, J.C., Jr., Darcey, S., and Ono, K. Dietary copper, simple sugars, and metabolic changes in pigs, 362
 Schrager, T.F. *See Hart, R.W.*, 396
 Schuette, S., Hong, J., Vereault, D., Ting, B., and Janghorbani, M. Effect of Mg nutriture on the dynamics of administered ^{25}Mg exchange in vivo in the rat, 355
 Schultz, V. *See Tornheim, K.*, 172; *Tornheim, K.*, 440
 Schultz, L.O. Effect of diabetes on the rat hepatic glucose-6-phosphatase system in endoplasmic reticulum subfractions, 523
 Seetharam, B. *See Ramasamy, M.*, 213
 Selhub, J. *See Shoda, R.*, 257
 Selvam, R. and Anuradha, C.V. Effect of oral methionine on blood lipid peroxidation and antioxidants in alloxan induced diabetic rats, 653
 Senft, M. *See Borel, P.*, 28
 Senshu, T. *See Matsunobu, S.*, 167
 Shah, B.G., Trick, K.D., and Belonje, B. Effects of dietary calcium on the metabolism of trace elements in male and female rats, 585
 Shinozuka, H. *See Singh, U.*, 434
 Shoda, R., Mason, J.B., Selhub, J., and Rosenberg, I.H. Folate binding in intestinal brush border membranes: evidence for the presence of two binding activities, 257
 Sigman, M. Characterization of transferrin receptors on plasma membranes of lactating rat mammary tissue, 239
 Sigman, M. and Lönnadal, B. Relationship of milk iron and the changing concentration of mammary tissue transferrin receptors during the course of lactation, 572
 Silverman, S., Fields, M., and Lewis, C. The effect of vitamin E on lipid peroxidation in the copper-deficient rat, 98
 Simmen, F.A. *See Reinhart, G.A.*, 592
 Simmen, R.C.M. *See Reinhart, G.A.*, 592
 Sindelkova, E. *See Zak, A.*, 472
 Singh, U., Yokota, K., Gupta, C., and Shinozuka, H. Choline deficiency activates phospholipases A₂ and C in rat liver without affecting the activity of protein kinase C, 434
 Skorepa, J. *See Zak, A.*, 472
 Smith, J.C., Jr. *See Scholfield, D.J.*, 362
 Smith, M. *See Janghorbani, M.*, 103
 Solaini, G. *See Barzanti, V.*, 305
 Steele, N.C. *See Scholfield, D.J.*, 362
 Sutton, J.D. *See Hart, R.W.*, 396
 Swenson, E.S. *See Crosby, L.E.*, 41
 Swenson, E.S., Crosby, L.E., Babayan, V.K., Blackburn, G.L., and Bistrian, B.R. Metabolic effects of medium chain triglyceride-enriched total parenteral nutrition in rats bearing Yoshida sarcoma, 462
 Takahashi, T. *See Furuichi, Y.*, 196
 Terashima, Y. *See Matsunobu, S.*, 167
 Thomas, P. *See Fox, E.S.*, 620
 Ting, B. *See Schuette, S.*, 355
 Ting, B.T.G. *See Janghorbani, M.*, 4; *Janghorbani, M.*, 103
 Ting, B.T.G., Lee, C.C., Janghorbani, M., and Prohaska, J.R. Development of the stable isotope tracer approach for studies of copper turnover in the rat and mouse, 249
 Tornheim, K. and Schultz, V. Adenosine diphosphate and adenosine monophosphate: enzymatic spectrophotometric determination, 440
 Adenosine triphosphate: enzymatic spectrophotometric determination, 172
 Tremoli, E. *See Mosconi, C.*, 565
 Trick, K.D. *See Shah, B.G.*, 585
 Turchetto, E. *See Barzanti, V.*, 305
 Turner, A.K. *See Chen, T.C.*, 272; *Chen, T.C.*, 315; *Chen, T.C.*, 320
 Turturro, A. *See Hart, R.W.*, 396
 Van Loan, M. *See Burri, B.J.*, 484
 Vazquez, C.M. *See Molina, M.T.*, 299
 Vereault, D. *See Schuette, S.*, 355
 Vrana, A. *See Zak, A.*, 472
 Were, K.E. *See Johnston, W.L.*, 49
 Whelan, J.W. *See Kinsella, J.E.*, 123
 White, M.E. *See Reinhart, G.A.*, 592
 Whiting, S.J. Effect of prostaglandin inhibition on caffeine-induced hypercalciuria in healthy women, 201
 Winders, R.L. *See Klain, G.J.*, 578
 Wolf, G. Recent progress in vitamin A research: nuclear retinoic acid receptors and their interaction with gene elements, 284
 Yokota, D. *See Singh, U.*, 434
 Young, D.S. Implementation of SI units for clinical laboratory data: style specifications and conversion tables, 599
 Yount, N.Y., McNamara, D.J., Al-Othman, A.A., and Lei, K.Y. The effect of copper deficiency on rat hepatic 3-hydroxy-3-methylglutaryl coenzyme a reductase activity, 21
 Yu, J.Y., and Cho, Y.-O. Tissue iron content in riboflavin and pyridoxine deficient rats, 310
 Zak, A., Hatle, K., Mares, P., Vrana, A., Zeman, M., Sindelkova, E., Skorepa, J., and Hrabak, P. Effects of dietary n-3 fatty acids on the composition of cholesteryl esters and triglycerides in plasma and liver perfusate of the rat, 472
 Zeisel, S.H. Choline deficiency, 332. *See also* Chao, C.-K., 89; Pomfret, E.A., 533
 Zeisel, S.H. and daCosta, K.A. Choline: determination using gas chromatography/mass spectrometry, 55
 Zeman, M. *See Zak, A.*, 472
 Zhang, J.J. and Lei, K.Y. Specific binding and uptake of apolipoprotein E-free high density lipoproteins by cultured liver parenchymal cells of copper-deficient rats, 291
 Zhao, X.M. and Montet, J.-C. Effects of bile salt supplementation on biliary secretion in estrogen-treated rats, 421