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Education

1949-53 University of Illinois, Urbana, Illinois
B.S. degree, Agricultural Science
1953-54 University of Illinois, Urbana, Illinois
M.S. degree, Animal Nutrition
1956-59 Cornell University, Ithaca, New York
Ph.D. degree, Nutrition; minors in Biochemistry and Physiology

Post-doctoral Study

1965 Study and research at Cambridge University, England, in laboratory of Dr. K. J. Carpenter. Carried out studies of amino acid availability in heat damaged proteins and studied trypsin inhibitors in some legume protein sources.

1972-73 Research at The Molteno Institute of Parasitology, Cambridge University, England, in laboratory of Dr. D.W.T. Crompton. Appointed as Visiting Scientist at The Molteno Institute. Carried out research on effect of modification of host diets on intestinal parasites.

1983-84 Research at The Molteno Institute of Parasitology, Cambridge University, England, in laboratory of Dr. D.W.T. Crompton. Carried out research on nutrition and parasitic infection.

Professional Societies

American Society of Nutritional Science(Formerly the American Institute of Nutrition)
American Association for Advancement of Science (Fellow)
Federation of American Societies for Experimental Biology
Elected to Alpha Zeta, Phi Kappa Phi and Sigma Xi
American Academy of Arts and Sciences

Professional Experience

1954-56 United States Air Force, rank of First Lieutenant

1956-59 Graduate Assistant, Cornell University, Ithaca, NY

1959-74 During this period held positions as Assistant Professor, Associate Professor, and Professor of Animal Nutrition at Cornell University, Ithaca, NY. Research interests during this period were centered on nutritional biochemistry, particularly the metabolism of arginine, lysine and tryptophan, and upon genetic variations in nutritional requirements.

- 1974-87 Professor of Nutrition and Founding Director of the Division of Nutritional Sciences at Cornell University. The Division was formed from two previously existing units at Cornell, the Graduate School of Nutrition and the Department of Human Nutrition and Food. The Division is responsible for human nutrition teaching, research, and public education programs
- 1987-89 Vice President for Planning and Budgeting, Cornell University, Ithaca, NY. Responsibilities include oversight of budget preparation for endowed and statutory colleges, supervision of statutory colleges' operations including their relationship with the State University of New York. Also responsible for the oversight of campus long-range planning for facilities, budgets and programs.
- 1989-95 Provost, Cornell University, Ithaca, NY. The Provost is the chief academic officer of the University and the chief operating officer.
- 1995- Provost Emeritus and Professor of Nutrition, Cornell University, Ithaca, NY.
- 1997- Provost Emeritus and Professor of Nutrition Emeritus, Cornell University, Ithaca, NY.

Fellowships and Awards

- American Feed Manufacturers Award in Nutrition Research, 1964
 Rockefeller Foundation Fellowship, 1965
 NIH Special Postdoctoral Fellowship, 1972-73
 Overseas Fellowship, Churchill College, Cambridge University, Cambridge, England, 1972-73
 Elected to Visiting Fellowship, Sidney Sussex College, Cambridge University, Cambridge, England, 1983-84
 Appointed to Jean Andrews Smith Visiting Professorship in Human Nutrition, University of Texas, 1986
 Atwater Lecturer, USDA, at American Institute of Nutrition Annual Meeting, 1987
 Lydia J. Roberts Lecturer, University of Puerto Rico, 1987.
 The Conrad A. Elvehjem Award for Distinguished Service to the Public through the Science of Nutrition . American Society of Nutritional Sciences
 Elected Fellow of American Academy of Arts & Sciences, 1995.
 Elected Fellow of American Society of Nutritional Sciences, 1997
 Elected a National Associate of the National Academies 2008

Professional Activities

Editorial Boards

- Journal of Nutrition, 1974-78
 Parasitology, 1973-74
 Nutrition Research, 1984

American Institute of Nutrition

- President, 1985-86
 President elect, 1984-85
 Councilor, 1977-80
 Chairman, Symposium on Nutrition & Parasitic Infection, AIN meeting, 1982
 Chairman, Nominating Committee, 1976

Chairman, Symposium on Nutrition & Genetics, Summer 1976
Chair Fellows Committee 2006-2007

National Nutrition Consortium

Member, Board of Directors, 1976-82
Treasurer, 1977, 1979
Chairman, Board of Directors, 1981-82

Subcommittee on Human Nutrition, Experiment Station

Directors' Committee on Policy & Programs; Chairman, 1981-8

National Institutes of Health Review Panels, Study Sections

Diet, Nutrition & Cancer Scientific Review Committee, 1976-7, Nutrition Study Section
1981-86; Chairman, 1983-86

National Research Council/Institute of Medicine

Food & Nutrition Board Member, 1983-92
Vice Chairman, International Nutrition subcommittee, 1984-86; Chairman, 1987-90
Member, Subcommittee for the 10th edition, Recommended Dietary Allowances, 1988-89
Chair, IOM Committee on Nutrient Relationships in Seafood:
Selections To Balance Benefits and Risks 2005-2006

Board of Scientific Councilors, USDA, 1984-87

US Dept. of Agriculture/Dept. of Health and Human Services

Chairman, Dietary Guidelines Committee (Revised US Dietary Guidelines 1990 edition),
1989-90

Program Director, Pew National Nutrition Program, Pew Memorial Trusts . 1986-92. This was a \$5.9 million program to provide support to institutions that wish to establish greater focus and direction to their academic nutrition programs. The program consisted of institutional grants and a leadership development program, with grant to Cornell to cover administrative costs.

Chair, Presidential Commission on Dietary Supplement Labels, 1996-98. This Commission was appointed by President Clinton to consider regulatory matters relative to the marketing of dietary supplements.

Board of Trustees, Pan American Health and Education Foundation the Pan American Health Organization 1996-2008. Board Chair, 1998-2000, 2005-2008, Board Secretary 2003

Cornell University Association of Professors Emeritus, President 2011-2012

Research Interests

Human Nutrition, Animal Nutrition, Nutrition Assessment, and Nutrition Policy. Relationships between nutrition and parasitic infection. Work has focused on understanding the influence of parasitic infections on nutritional needs of hosts. Work has been carried out dealing with the effects of parasitic infections on nutrition using both animal models and with human subjects in work carried out in Panama, Indonesia, Kenya, Papua New Guinea, Venezuela and Burma.

Publications-Books

- Nesheim, M.C. 1959 Studies on the effect of selenium and other factors on vitamin E deficiency in the chick. Ph.D. thesis, Cornell University.
- Card, L.E. & M.C. Nesheim 1966 Poultry Production, 10th ed. Lea & Febiger, Philadelphia. Spanish translation by Maluenda, P.D. and P.L. Lorenzo, Editorial Acribia, Zaragoza, Espana: Produccion Avicola.
- Card, L.E. & M.C. Nesheim 1972 Poultry Production, 11th ed. Lea & Febiger, Philadelphia
- Nesheim, M.C., R.E. Austic & L.E. Card 1979 Poultry Production, 12th ed. Lea & Febiger, Philadelphia.
- Austic, R.E. & M.C. Nesheim 1990 Poultry Production, 13th ed. Lea & Febiger, Philadelphia.
- Scott, M.L., M.C. Nesheim & R.J. Young 1969 Nutrition of the Chicken. M.L. Scott & Associates, Publishers, Ithaca, NY.
- Scott, M.L., M.C. Nesheim & R.J. Young 1975 Nutrition of the Chicken, 2nd ed. M.L. Scott & Associates, Publishers, Ithaca, NY
- Scott, M.L., M.C. Nesheim & R.J. Young 1982 Nutrition of the Chicken, 3rd ed. M.L. Scott & Associates, Publishers, Ithaca, NY
- Crompton, D.W.T., M.C. Nesheim & Z.S. Pawlowski, Editors 1985 Ascariasis and its Public Health Significance. Taylor & Francis, London and Philadelphia.
- Crompton, D.W.T., M.C. Nesheim & Z.S. Pawlowski, Editors 1989 Ascariasis and Its Prevention and Control. Taylor & Francis, London, New York and Philadelphia.
- Crompton, D.W.T., Montresor, A. Nesheim, M.C., Savioli L. editors. 2004 Controlling Disease due to Helminth Infections World Health Organization, Geneva
- Nesheim, M. C. and Ann Yaktine, Editors. 2007 Seafood Choices: Balancing Benefits and Risk. Report from Food and Nutrition Board, Institute of Medicine. National Academy Press, Washington DC
- Nestle Marion, and Malden C. Nesheim 2010. Feed your Pet Right. Free Press, Simon and Schuster, New York.
- Nesheim, Malden C. 2010. The Division of Nutritional Sciences at Cornell University – A History and personal Reflections. The Internet-First University Press, Ithaca, New York
- Nestle, M and M Nesheim. 2012. Why Calories Count- From Science to Politics. University of California Press, Berkeley California

Publications-- Journal articles

- Becker, D.E., M.C. Nesheim, S.W. Terrill & A.H. Jensen 1955 Problems in the formulation of a semi-synthetic diet for amino acid studies. *J. An. Sci.* 14:642-651.
- Nesheim, M.C. & M.L. Scott 1958 Studies on the nutritive effects of selenium for chicks. *J. Nutr.* 65:601-618.
- Nesheim, M.C., S.L. Leonard & M.L. Scott 1959 Alterations in some biochemical constituents of skeletal muscle of vitamin E deficient chicks. *J. Nutr.* 68:359-369.
- Nesheim, M.C., C.C. Calvert & M.L. Scott 1960 Effect of arginine deficiency on nutritional muscular dystrophy in the chick. *Proc. Soc. Exp. Biol. Med.* 104:783-785.
- Nesheim, M.C. & M.L. Scott 1961 Nutritional effects of selenium compounds in chicks and turkeys. *Fed. Proc.* 20:674-678.
- Carew, L.B. Jr., F.W. Hill & M.C. Nesheim 1961 The comparative value of heated ground unextracted soybeans and heated dehulled soybean flakes as a source of soybean oil and energy for the chick. *J. Am. Oil Chemists Soc.* 38:249-253.
- Brambila, S., M.C. Nesheim & F.W. Hill 1961 The effect of trypsin supplementation on the utilization by the chick of diets containing raw soybean oil meal. *J. Nutr.* 75:13-20.
- Carew, L.B., Jr. & M.C. Nesheim 1962 The effect of pelleting on the nutritional value of ground soybeans for the chick. *Poultry Sci.* 41:161-168.
- Carew, L.B. Jr., M.C. Nesheim & F.W. Hill 1962 An in vitro method for determining the availability of soybean oil in unextracted soybean products for the chick. *Poultry Sci.* 41:188-193.
- Calvert, C.C., M.C. Nesheim & M.L. Scott 1962 Effectiveness of selenium in prevention of nutritional muscular dystrophy in the chick. *Proc. Soc. Exp. Biol. Med.* 109:16-18.
- Nesheim, M.C. & F.B. Hutt 1962 Genetic differences among white leghorn chicks in requirements of arginine. *Science* 137:691-692.
- Nesheim, M.C., J.D. Garlich & D.T. Hopkins 1962 Studies on the effect of raw soybean meal on fat absorption in young chicks. *J. Nutr.* 78:89-94.
- Carew, L.B. Jr., M.C. Nesheim & F.W. Hill 1963 The relationship of dietary energy level and density to the growth response of chicks to fat. *Poultry Sci.* 42:710-713.
- Zablan, T.A., M. Griffith, M.C. Nesheim, R.J. Young & M.L. Scott 1963 Metabolizable energy of some oil seed meals and some unusual feedstuffs. *Poultry Sci.* 42:619-625.
- Hopkins, D.T., R.L. Witter & M.C. Nesheim 1963 A respiratory disease syndrome in chickens fed essential fatty acid deficient diets. *Proc. Soc. Exp. Biol. Med.* 114:82-86.
- Leach, R.M. Jr. & M.C. Nesheim 1963 Studies on chloride deficiency in chicks. *J. Nutr.* 81:193-199.

- Beer, A.E., M.L. Scott & M.C. Nesheim 1963 The varied effects of graded levels of pantothenic acid on the breeding performance of white leghorn pullets. *British Poultry Sci.* 4:243-253.
- Nesheim, M.C. & J.D. Garlich 1963 Studies on ornithine synthesis in relation to benzoic acid excretion on the domestic fowl. *J. Nutr.* 79:311-317.
- Carew, L.B. Jr., D.T. Hopkins & M.C. Nesheim 1964 Influence of amount and type of fat on metabolic efficiency of energy utilization by the chick. *J. Nutr.* 83:300-306.
- Nesheim, M.C., R.M. Leach, Jr., T.R. Zeigler & J.A. Serafin 1964 Inter-relationships between dietary levels of sodium, chlorine and potassium. *J. Nutr.* 84:361-366.
- Garlich, J.D. & M.C. Nesheim 1965 Effect of sodium taurocholate on fat mal-absorption induced by feeding unheated soybean proteins. *Proc. Soc. Exp. Biol. Med.* 118:1022-1025.
- Leach, R.M., Jr. & M.C. Nesheim 1965 Nutritional, genetic and morphological studies of an abnormal cartilage formation in young chicks. *J. Nutr.* 86:236-244.
- Hutt, F.B., M.C. Nesheim & D.A. Christensen 1965 The efficacy of selection to change the chick's requirement of arginine. *Can. J. Genetics & Cytol.* 7(2):354.
- Garlich, J.D. & M.C. Nesheim 1966 Relationship of fractions of soybeans and a crystalline soybean trypsin inhibitor to the effects of feeding unheated soybean meal to chicks. *J. Nutr.* 88:100-110.
- Nesheim, M.C. & J.D. Garlich 1966 Digestibility of unheated soybean meal for laying hens. *J. Nutr.* 88:187-192.
- Nesheim, M.C. 1966 Genetic variations in nutrient requirements. *World's Poultry Sci. J.* 22:290-298.
- Nesheim, M.C., D.A. Christensen & D.L. Arnold 1967 Arginine deficiency in two strains of chickens selected for differences in dietary requirements of arginine. *J. Nutr.* 92:365-373.
- Hopkins, D.T. & M.C. Nesheim 1967 The linoleic acid requirement of chicks. *Poultry Sci.* 46:872-881.
- Sambeth, W., M.C. Nesheim & J.A. Serafin 1967 Separation of soybean whey into fractions with different biological activities for chicks and rats. *J. Nutr.* 92:479-490.
- Nesheim, M.C. & K.J. Carpenter 1967 The digestion of heat-damaged protein. *Br. J. Nutr.* 21:299-411.
- Nesheim, M.C. 1968 Kidney arginase activity and lysine tolerance in strains of chickens selected for a high or low requirement of arginine. *J. Nutr.* 95:79-87.
- Anantharaman, K., K.J. Carpenter & M.C. Nesheim 1968 The nutritional value of poor proteins fed at high levels. 2. Species differences. *Br. J. Nutr.* 22:199-205.
- Nesheim, M.C. 1968 Genetic variation in arginine and lysine utilization. *Fed. Proc.* 27:1210-1214.
- Hutt, F.B. & M.C. Nesheim 1968 Polygenic variation in the utilization of arginine and lysine by the chick. *Canadian J. Genet. & Cytol.* 10:564-574.

- Crompton, D.W.T. & M.C. Nesheim 1969 Amino acid patterns during digestion in the small intestine of ducks. J. Nutr. 99:43-50.
- Crompton, D.W.T. & M.C. Nesheim 1970 Lipid, bile acid, water and dry matter content of the intestinal tract of domestic ducks with reference to the habitat of Polymorphus minutus (Acanthocephala). J. Exp. Biol. 52:437-445.
- Serafin, J.A. & M.C. Nesheim 1970 Influence of dietary heat-labile factors in soybean meal upon bile acid pools and turnover in the chick. J. Nutr. 100:786-796.
- Austic, R.E. & M.C. Nesheim 1970 Role of kidney arginase in variations of the arginine requirement of chicks. J. Nutr. 100:855-868.
- Nesheim, M.C., R.E. Austic & Shu-heh Wang 1971 Genetic factors in lysine and arginine metabolism of chicks. Fed. Proc. 30:121-126.
- Nesheim, M.C., M.J. Norvell, E. Ceballos & R.M. Leach, Jr. 1971 The effect of choline supplementation of diets for growing pullets and laying hens. Poultry Sci. 50:820-831.
- Austic, R.E. & M.C. Nesheim 1971 Arginine, ornithine and proline metabolism of chicks: influence of diet and heredity. J. Nutr. 101:1403-1414.
- Nesheim, M.C., R.E. Austic & Shu-heh Wang 1972 Dietary factors influencing amino acid degradation. No. 4 of amino acids in avian nutrition (symposium). Poultry Sci. 51:28-35.
- Wang, Shu-heh & M.C. Nesheim 1972 Degradation of lysine in chicks. J. Nutr. 102:583-596.
- Crompton, D.W.T. & M.C. Nesheim 1972 A note on the biliary system of the domestic duck and a method for collecting bile. J. Exp. Biol. 56:545-550.
- Niess, E., C.A. Ivy & M.C. Nesheim 1972 Stimulation of gallbladder emptying and pancreatic secretion in chicks by soybean whey protein. Proc. Soc. Exp. Biol. Med. 140:291-296.
- Austic, R.E. & M.C. Nesheim 1972 Arginine and creatine interrelationships in the chick. Poultry Sci. 51:1098-1105.
- Ivy, C.A., M.C. Nesheim, J.C. Geary & G.D. Ryan 1972 Frequency of abnormally shaped eggs in white leghorn hens. Poultry Sci. 51:1414-1417.
- Leach, R.M., Jr. & M.C. Nesheim 1972 Further studies on tibial dyschondroplasia (cartilage abnormality) in young chicks. J. Nutr. 102:1673-1680.
- Nesheim, M.C. 1972 Genetic variation in incotinic acid requirements of chicks. J. Heredity 63:347-350.
- Ivy, C.A. & M.C. Nesheim 1973 Factors influencing the liver fat content of laying hens. Poultry Sci. 52:281-291.
- Wang, Shu-heh, L.O. Crosby & M.C. Nesheim 1973 Effect of dietary excesses of lysine and arginine on the degradation of lysine by chicks. J. Nutr. 103:384-391.

- Ketola, H.G., R.J. Young & M.C. Nesheim 1973 Linoleic acid requirement of turkey poults. *Poultry Sci.* 52:597-603.
- Wang, Shu-heh & M.C. Nesheim 1973 Effect of γ -aminoisobutyric acid on arginine degradation and excretion by chickens. *Am. J. Physiol.* 225:727-728.
- Ketola, H.G., M.C. Nesheim & R.J. Young 1973 The need for dietary choline by young Japanese quail. *Poultry Sci.* 52(6):2362-2363. Research note.
- Nesheim, M.C. 1974 Genetic variation in nutritional requirements of poultry. Proceedings of a symposium on the effect of genetic variance of nutritional requirements of animals. National Academy of Science, Washington, DC. 47-87.
- Ketola, H.G. & M.C. Nesheim 1974 Influence of dietary protein and methionine levels on the requirement for choline by chickens. *J. Nutr.* 104:1484-1489.
- Nesheim, M.C., L.O. Crosby & W.J. Kuenzel 1974 The oxidation and kidney clearance of D- and L-tryptophan by chickens. *Proc. Soc. Exp. Biol. Med.* (Dec.). 147:850-854.
- Crompton, D.W.T. & M.C. Nesheim 1975 Host-parasite relationships in the alimentary tract of domestic birds. *Advances in Parasitology*, 95-194.
- Nesheim, M.C. 1975 Discussion of projected world food demand and supplies to 1985. The Rockefeller Foundation, Working Papers of Conference, April, 1975.
- Nesheim, M.C. 1975 Some observations of the effect of anabolic agents in poultry. FAO/WHO Symposium, Rome, Italy (March). *In* *Anabolic Agents in Animal Production, Environmental Quality & Safety Supplement*, Vol. V. George Thieme, Stuttgart, 1976.
- Kadowaki, Hiroko, H.W. Israel & M.C. Nesheim 1976 Intracellular localization of arginase in chick kidney. *Biochem. Biophys. Acta* 437:158-165.
- Nesheim, M.C., D.W.T. Crompton, S. Arnold & D. Barnard 1977 Dietary relationships between *Moniliformis* (*Acanthocephala*) and laboratory rats. *Proc. Royal Soc. London B.* 197:363-383.
- Nesheim, M.C. 1977 Human protein requirements and efficiency of animal production. *In* *Nutrition Planning & Policy for African Countries*, Latham & Westley, eds. Cornell Int'l Nutr. Series, No. 5.
- Kadowaki, Hiroko & M.C. Nesheim 1978 An assay for arginase in chicken kidney. *Comp. Biochem. Physiol.* 61B:281-285.
- Nesheim, M.C. 1978 Poultry. *The World Book Encyclopedia*.
- Nesheim, M.C., D.W.T. Crompton, Susan Arnold & D. Barnard 1978 Host dietary starch and *Moniliformis* (*Acanthocephala*) in growing rats. *Proc. Royal Soc. London B.* 202:399-408.
- Kadowaki, Hiroko & M.C. Nesheim 1979 Purification and properties of chick kidney arginase. *Int'l J. Biochem.* 10:303-310.

- Chu, Shu-heh W. & M.C. Nesheim 1979 The relationship of plasma arginine and kidney arginase activity to arginine degradation in chickens. *J. Nutr.* 109:1752-1758.
- Stephenson, L.S., W.G. Pond, M.C. Nesheim, L.P. Krook & D.W.T. Crompton 1980 Ascaris suum: Nutrient absorption, growth and intestinal pathology in pigs experimentally infected with 15-day larvae. *Exp. Parasit.* 49:15-25.
- Pimentel, David, P.A. Oltenacu, M.C. Nesheim, John Krummel, M.S. Allen & Sterling Chick 1980 The potential for grass-fed livestock: resource constraints. *Science* 207:843-848 (Feb. 22).
- Stephenson, L.S., D.W.T. Crompton, M.C. Latham, T.W.J. Schulpen, M.C. Nesheim & A.A.J. Jansen 1980 Relationships between Ascaris infection and growth of malnourished preschool children in Kenya. *Am. J. Clin. Nutr.* 33:1165-72.
- Chen, S. C-H., S. Tsai & M.C. Nesheim 1980 Response of rats fed diets low in glucose and glucose precursors to low levels of glucose, starch, and chemically modified starch. *J. Nutr.* 110:1023-1031.
- Chu, S-H.W. & M.C. Nesheim 1980 Analysis of the rates of dietary induced changes in chick kidney arginase activity. *Proc. Soc. Exp. Biol. & Med.* 164:347-350.
- Parshad, V.R., D.W.T. Crompton & M.C. Nesheim 1980 The growth of Moniliformis (Acanthocephala) in rats fed on various monosaccharides and disaccharides. *Proc. Royal Soc. London B.* 209:299-315.
- Forsum, E., M.C. Nesheim & D.W.T. Crompton 1981 Nutritional aspects of Ascaris infection in young protein deficient pigs. *Parasitology* 83:497-512.
- Crompton, D.W.T., A. Singhvi, M.C. Nesheim & D.E. Walters 1981 Competition for dietary fructose between Moniliformis (Acanthocephala) and growing rats. *Int'l J. Parasitology*, Vol. 11, 6:457-461.
- Forsum, E., P.E. Hillman & M.C. Nesheim 1981 Effect of energy restriction on total heat production, basal metabolic rate and specific dynamic action of food in rats. *J. Nutr.* 111:1681-1697
- Crompton, D.W.T. & M.C. Nesheim 1982 Nutrition and parasitism: a case for more integration. *BioScience* Vol. 32, No. 8
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- Hughes, S.G., G.L. Rumsey & M.C. Nesheim 1983 Branched-chain amino acid aminotransferase activity in the tissues of lake trout. *Comp. Biochem. Physiol.* 76B, 3:429-431.
- Hughes, S.G., G.L. Rumsey & M.C. Nesheim 1983 Dietary requirements for essential branched-chain amino acids by lake trout. *Trans. Am. Fisheries Soc.* 112:812-817.
- Crompton, D.W.T., A. Keymer, A. Singhvi & M.C. Nesheim 1983 Rat-dietary fructose and the intestinal distribution and growth of Moniliformis (Acanthocephala). *Parasitology* 86:57-71.
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- Martin, Jean, D.W.T. Crompton, E. Carrera & M.C. Nesheim 1984 Mucosal surface lesions in young protein-deficient pigs infected with Ascaris suum (Nematoda). *Parasitology*, 88:333-340.
- Crompton, D.W.T. & M.C. Nesheim 1984 Malnutrition's insidious partner. World Health, WHO (March), 18-21.
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- Nesheim, M.C. 1984 Future needs and developments. Genetic factors in nutrition. Academic Press, Inc. pp. 417-422.
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- Nesheim, M.C. 1991 Dietary guidelines: their implications for the food industry. Trends in Food Sci. & Tech., Vol. 2:6,pp. 138-140.
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