

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
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NAME Fernando E. Viteri	POSITION TITLE Professor, Department of Nutritional Sciences and Toxicology, University of California, Berkeley		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of San Carlos, Guatemala City, Guatemala	M.D.	1955	Medicine
University of Cincinnati, Ohio	Sc.D.	1965	Medicine, Physiology

PROFESSIONAL TRAINING, DEGREES AND EXPERIENCE

U. S. Internal Medicine Board examinations, 1962
 University of Cincinnati, Cincinnati General Hospital, Fellow in Hematology, Nutrition and Metabolism, 1957-60, and Resident in Internal Medicine 1961-1962.
 University of Tennessee, Oak Ridge National Laboratories, Oak Ridge, TN, USA. Research Scientist, 1960-1961.
 Institute of Nutrition of Central America and Panama (INCAP), and University of San Carlos de Guatemala:
 Professor of Physiology, and Head of the Division of Biology and Nutrition, 1962-1980.
 In charge of the hematological evaluation of the Central American population for the Central American Nutritional Survey. 1967-1972.
 Consultant and member of Expert groups for WHO, FAO and UNICEF headquarters and Argentina in different occasions on different nutritional, food and health programs 1976-2002.
 Pan American Health Organization / World Health Organization, Washington, D. C., USA:
 Regional Advisor and Researcher, Division of Chronic Non-Communicable Diseases, 1981-82.
 Regional Advisor and Head of the Food and Nutrition Program, 1982-86.
 International Nutritional Anemia Consultative Group (INACG): Member on several occasions since 1976, Member of steering Committee 1992-98.
 Professor, Department of Nutritional Sciences, University of California at Berkeley, CA, USA, 1986 to present.
 United Nations University: Coordinator, International Iron Nutrition Programme, 1991 to present.
 Member of the International Scientific Surveillance Committee of the study SU.VI.MAX, INSERM/ISTNA/CNAM, France, 1994 – 2003.
 Member of the International Nutrition Program, Department of Nutrition, U. of California, Davis, 1998 to present.
 Senior Researcher Scientist, Children's Hospital Oakland Research Institute (CHORI) 2002-2005
 Scientist, Children's Hospital Oakland Research Institute (CHORI) 2005

Chairman of the International Scientific Advisory Committee for the Instituto de Desarrollo e Investigaciones Pediátricas (IDIP), Hospital Pediátrico de la Provincia de Buenos Aires (Sor María Ludovica) 2003, 2007.

PROFESSIONAL HONORS

Elected member of the Academy of Sciences of Guatemala, 1977

Recipient of Meritorious Service Award, Pan American Health Organization/ World Health Organization, 1980

Honorary Professor, U. Francisco Marroquin Medical School, Guatemala, 1987

Visiting Professor, Conservatoire Nationale des Arts et Métiers, INSERM, Paris, France, 1992-93

Extraordinary Professor, University of Navarre, Spain, 1997 to present

3rd. Prize for research presented at the XXXIX Pediatric Congress (Guatemala), 1995

1st W.K.Kellogg Prize for Latin American Research in Human Nutrition, 1997

1st Prize, IV Colombian Biennial Pediatric Congress-COLSUBSIDIO-AMERICAS, 1999

Member of the March of Dimes Task Force for Nutrition and Optimal Human Development, 1999 to 2001

Awarded the year 2,000 prize by the Society for International Nutrition Research, of the American Society of Nutritional Sciences.

Keynote Speaker at the XII Latin American Congress of Nutrition. Buenos Aires, November 2000

Speaker on the nutritional problems of Central America and their solutions at the Meeting of Ministers of Health of Central America in Madrid, March, 2001

Faculty at the CDC/Emory/MI /ILSI Iron Conference: Forging Effective Strategies to Combat Iron Deficiency. Atlanta, Georgia. May 2001

Elected Fellow of the American Society of Nutritional Sciences, April, 2003

Elected President of Scientific Advisory Council, Latin American Nutrition Society (SLAN) Dec 2003

Elected Member of International Bioiron Society, Dec. 2004.

Appointed member of Scientific Advisory Board I World Congress of Public Health Nutrition and the VII Congress of the Spanish Society of Community Nutrition, June, 2005

Member of Convergencia selected by the National Secretar for Science and Technology (Secretaría Nacional de Ciencia y Tecnología - SENACYT-) Guatemala , 2005, 2006, 2007.

Received the Decoration "Orden de Pedro de San José de Bethancourt", the highest honor for Public Service given by the Government of Guatemala through its Minister of Health, 2007.

LIST OF PUBLICATIONS

PUBLICATIONS IN ENGLISH

1. Scrimshaw, N.S., Béhar, M., Guzmán, M.A., Viteri, F., and Arroyave, G. Biochemical and hematological findings in infantile pluricarenal syndrome (kwashiorkor). Fed. Proc., 14:449-450, 1955.
2. Scrimshaw, N.S., Béhar, M., Pérez, C., and Viteri, F. Nutritional problems of children in Central America and Panama. Pediatrics, 16:378-397, 1955.

3. Scrimshaw, N.S., Béhar, M., Arroyave, G., Viteri, F., and Tejada, C. Characteristics of kwashiorkor (Síndrome Pluricarenal de la Infancia). *Fed. Proc.*, 15:977-985, 1956.
4. Robinson, U., Béhar, M., Viteri, F., Arroyave, G., and Scrimshaw, N.S. Protein and fat balance studies in children recovering from Kwashiorkor. *Jour. Trop. Ped.*, 2:217-223, 1957.
5. Scrimshaw, N.S., Béhar, M., Arroyave, G., Tejada, C., and Viteri, F. Kwashiorkor in children and its response to protein therapy. *Jour. Am. Med. Assn.*, 164:555-561, 1957.
6. Scrimshaw, N.S., Béhar, M., Viteri, F., Arroyave, G., and Tejada, C. Epidemiology and prevention of severe protein malnutrition (Kwashiorkor) in Central America. *Am. Jour. Pub. Hlth.*, 47:53-62, 1957.
7. Scrimshaw, N.S., Squibb, R.L., Bressani, R., Béhar, M., Viteri, F., and Arroyave, G. Vegetable protein mixtures for the feeding of infants and young children. In: *Amino Acid Malnutrition*, ed. William H. Cole, XIII Protein Conference. New Brunswick, N.J., Rutgers University Press, 1957, pp. 28-46.
8. Béhar, M., Viteri, F., and Scrimshaw, N.S. Treatment of severe protein deficiency in children (Kwashiorkor). *Am. Jour. Clin. Nutr.*, 5:506-515, 1957.
9. Burch, H.B., Arroyave, G., Schwartz, R., Padilla, A.M., Béhar, M., Viteri, F., and Scrimshaw, N.S. Biochemical changes in liver associated with kwashiorkor. *Jour. Clin. Invest.*, 36:1579-1587, 1957.
10. Béhar, M., Viteri, F., Bressani, R., Arroyave, G., Squibb, R.L., and Scrimshaw, N.S. Principles of treatment and prevention of severe protein malnutrition in children (kwashiorkor). *Ann. N.Y. Acad. Sci.*, 69(Art. 5):954-968, 1958.
11. Lahey, M.E., Béhar, M., Viteri, F., and Scrimshaw, N.S. Values for copper, iron and iron-binding capacity in the serum in kwashiorkor. *Pediatrics*, 22:72-79, 1958.
12. Scrimshaw, N.S., Bressani, R., Béhar, M., and Viteri, F. Supplementation of cereal proteins with amino acids. I. Effect of amino acid supplementation of corn-masa at high levels of protein intake on the nitrogen retention of young children. *Jour. Nutr.*, 66:485-499, 1958.
13. Bressani, R., Scrimshaw, N.S., Béhar, M., and Viteri, F. Supplementation of cereal proteins with amino acids. I. Effect of amino acid supplementation of corn-masa at intermediate levels of protein intake on the nitrogen retention of young children. *Jour. Nutr.*, 66:501-513, 1958.
14. Arroyave, G., Viteri, F., Béhar, M., and Scrimshaw, N.S. Impairment of intestinal absorption of Vitamin A palmitate in severe protein malnutrition (kwashiorkor). *Am. Jour. Clin. Nutr.*, 7:185-198, 1959.
15. Mueller, J.F., and Viteri, F. Clinical studies in patients receiving long-term infusions of fat emulsion. *J. Okla. Med. Assn.*, 53:367-373, 1960.
16. Scrimshaw, N.S., Béhar, M., Wilson, D., Viteri, F., Arroyave, G., and Bressani, R. All-vegetable protein mixtures for human feeding. V. Clinical trials with INCAP mixtures 8 and 9 and with corn and beans. *Am. Jour. Clin. Nutr.*, 9:196-205, 1961.

17. Arroyave, G., Wilson, D., Béhar, M., and Viteri, F. The development of INCAP vegetable mixtures. II. Biochemical testing. In: *Progress in Meeting Protein Needs of Infants and Preschool Children. Proceedings of an International Conference held in Washington, D.C., August 21-24, 1960, under the auspices of the Committee on Protein Malnutrition, Food and Nutrition Board and the Nutrition Study Selection, National Institutes of Health, Washington, D.C., National Academy of Sciences-National Research Council (Publ. 843), 1961, pp. 49-55.*
18. Glueck, H.I., Viteri, F.E., Howard, R., and Mueller, J.F. with the technical assistance of Miller, M.A., Eckert, R., and Wilson, N. The effect of intravenously administered fat on the coagulation mechanism. *Am. Jour. Clin. Nutr.*, 13:8-24, 1963.
19. Viteri, F., Béhar, M., Arroyave, G., and Scrimshaw, N.S. Clinical aspects of protein malnutrition. (Chapter 22). In: *Mammalian Protein Metabolism. Vol. 2, Eds. M.N. Munro, and J.B. Allison. New York, Academic Press, Inc., 1964, pp. 523-568.*
20. Garn, S., Rohmann, C.G., Béhar, M., Viteri, F., and Guzmán, M.A. Compact bone deficiency in protein-calorie malnutrition. *Science*, 145:1444-1445, 1964.
21. Viteri, F. Studies on the mechanism of action of nicotinic acid as a hypocholesterolemic agent. D.Sc. in Medicine Thesis. University of Cincinnati, December, 1965.
22. Bressani, R., Elías, L.G., Zaghi, S. de, Mosovich, L., and Viteri, F. Cottonseed protein. The protein quality of cottonseed protein concentrate prepared by two different industrial processes. *J. Agric. Food Chem.*, 14:493-496, 1966
23. Bressani, R., Viteri, F., Elías, L.G., Zaghi, S. de, Alvarado, J., Odell, A.D. Protein quality of a soybean protein textured food in experimental animals in children. *J. Nutr.*, 93:349-360, 1967.
24. Burk, Jr., R.F., Pearson, W.N., Wood II, R.P. and Viteri, F. Blood-selenium levels and in vitro red blood cell uptake of ⁷⁵Se in kwashiorkor. *Am. Jour. Clin. Nutr.*, 20:723-733, 1967.
25. Viteri, F., Alvarado, J., Luthringer, D.G., and Wood II, R.P. Hematological changes in protein calorie malnutrition. *Vitamins and Hormones*, 27:573-614, 1968.
26. Viteri, F. Nutritional status and physical performance (Summary). In: *Food Industries Advisory Committee Meeting, held at Naples, Florida. January 31-February 2, 1968. The Nutrition Foundation, Inc., New York, 1968, p. 7-8.*
27. Schneider, R., Alvarado, J., and Viteri, F. Histopathological study of the intestinal mucosa in malnutrition. In: *Pediatrics in Latin America, a preliminary report. Report of a Macy Conference, Josiah Macy Jr. Foundation. Santiago, Chile, March 24-26, 1969, pp. 34-41.*
28. Viteri, F.E., and Alvarado, J. The creatinine Height Index: Its use in the estimation of the degree of protein depletion and repletion in protein calorie malnourished children. *Pediatrics*, 46:696-706, 1970.
29. Alleyne, G.A.O., Viteri, F., and Alvarado, J. Indices of body composition in infantile malnutrition: Total body potassium and urinary creatinine. *Am. J. Clin. Nutr.*, 23:875-87, 1970.

30. Viteri, F. and Alvarado, J. Body composition and oxygen consumption in protein calorie malnourished children and during recovery. *Am. J. Clin.*, 23:675-676, 1970.
31. Bressani, R., and Viteri, F. Metabolic Studies in Human Subjects. In: SOS/70. Proceedings of the 3rd International Congress of Food Sciences and Technology. Washington, D.C., August 9-14, 1970. Chicago, Illinois, Institute of Food Technologists, 1971, pp. 344-357.
32. Viteri, F. Considerations on the effect of nutrition on the body composition and physical working capacity of young Guatemalan adults. In: Amino acid fortification of protein foods. Report of an International Conference held at the Massachusetts Institute of Technology, September 16-18, 1969. N.S. Scrimshaw and A.M. Altschul (Eds.), Cambridge, Mass., the MIT Press, 1971, pp. 350-375.
33. Viteri, F. and Pineda, O. Effects on body composition and body function. Physiological effects. In: Famine. A Symposium dealing with nutrition and relief operation in time of disaster. Gunnar, Blix, Yngve Hofvander and Bo Vahlquist (Eds.). Stockholm, Sweden, Almsqvist & Wiksell, 1971, pp. 25-40 (Symposia of the Swedish Nutrition Foundation IX).
34. Bressani, R., Wilson, D.M. Viteri, F., Mosovich, L., and Alvarado, J. Effects of amino acid supplementation of white rice fed to children. *Arch. Latinoamer. Nutr.*, 21: 347-360, 1971.
35. Viteri, F., Alvarado, J., and Alleyne, G.A.O. Reply to Drs. Méndez and Burkirk. (Letter to the Editor). *Am. Jour. Clin. Nutr.*, 24:386-387, 1971.
36. Béhar, M., and Viteri, F. Protein-Calorie Malnutrition. In: International Encyclopedia of Food and Nutrition, Vol. 16, Clinical Nutrition and Dietetics (Ed. Dr. Grace Goldsmith), Oxford, England. Pergamon Press Ltd., 1971.
37. Cook, J.D., Alvarado, J., Gutnisky, A., Jamra, M., Labardini, J., Layrisse, M., Linares, J., Loría, A., Maspes, V., Restrepo, F., Reynafarje, C., Sánchez-Medal, L., Vélez, H, and Viteri, F. Nutritional deficiency and anemia in Latin America. A collaborative study. *Blood*, 38:591-603, 1971.
38. Viteri, F., Torún, B., Galicia, J.C. and Herrera, E. Determining energy cost of agricultural activities by respirometer and energy balance techniques. *Am. J. Clin. Nutr.*, 24:1418-1430, 1971.
39. Viteri, F. and Bressani, R. The quality of new sources of protein and their suitability for weanlings and young children. *Bull. Wld. Hlth. Org.*, 46:827-843, 1972.
40. Mata, L.J., Jiménez, F., Cordón, M., Rosales, R., Prera, E., Schneider, R.E. and Viteri, F. Gastrointestinal flora of children with protein calorie malnutrition. *Am. J. Clin. Nutr.*, 25:1118-1126, 1972.
41. Schneider, R.E. and Viteri, F. Morphological aspects of the duodenojejunal mucosa in protein calorie malnourished children and during recovery. *Am. J. Clin. Nutr.*, 25:1092-1102, 1972.
42. Viteri, F., and Arroyave, G. Protein-Calorie Malnutrition (Chapter 21). In: Modern Nutrition in Health and Disease. R.S. Goodhart and M.E. Shils (Eds.), 5th Ed. Philadelphia, Penn. Lea & Febinger, 1972, pp. 604-624.

43. Bressani, R., Viteri, F., Wilson, D. and Alvarado, J. The quality of various animal and vegetable proteins with a note on the endogenous and fecal nitrogen excretion of children. *Arch. Latinoamer. Nutr.*, 22:227-241, 1972.
44. Viteri, F. Creatinine-height index in malnourished children. (Letter to the Editor). *Nutr. Revws.*, 30:24-26, 1972.
45. Viteri, F., de Tuna, V., and Guzmán, M.A. Normal haematological values in the Central American Population. *Brit. J. Haematol.*, 23:189-204, 1972.
46. Viteri, F., Contreras, C., and Schneider, R.E. Intestinal malabsorption in malnourished children and during recovery. Doudenal content of lipase, nitrogen and micellar fat after fat stimulation. *Arch. Latinoamer. Nutr.*, 22:613-627, 1972.
47. Viteri, F. and Guzmán, M.A. Haematological status of the Central American Population: Prevalence of individuals with haemoglobin levels below normal. *Brit. J. Haematol.*, 23:725-735, 1972.
48. Nichols, B.L., Alvarado, J., Hazelwood, D.F., and Viteri, F. Clinical significance of muscle potassium depletion in protein-calorie malnutrition. *J. Pediat.*, 80:319-330, 1972.
49. Schneider, R.E., and Viteri, F. Some morphologic and functional alterations of the gastrointestinal tract in protein-calorie malnourished children. *Am. J. Clin. Nutr.*, 25:1092-1102, 1972.
50. Viteri, F. Physical Fitness and Anemia. In: *The Proceedings of the Symposium sponsored by the Malnutrition Panels of the United States Japan Cooperative Medical Science Program (Tokyo, Japan, Nov. 28-29, 1972)*. Norio Shimazono and Tsuneo Arakawa (Eds.), *Malnutrition and Functions of Blood Cells*. pp. 559-583.
51. Viteri, F. Nutritional evaluation of sub-clinically protein calorie malnourished pre-school children. In: *Nutrition*. A. Chavez, H. Bourges and S. Basta (Eds.). *Proc. 9th International Congress Nutr. Mexico, 1972, Vol. 2, Prognosis for the Undernourished Surviving Child*. Basel. *Proceeding of the IX International Congress of Nutrition, Mexico, D.F., Mexico, Sept. 3-9, 1972*, pp. 362-367.
52. Viteri, F., Martínez, C., and Bressani, R. Evaluation of the protein quality of common maize, opaque-2 maize and common maize supplemented with amino acids and other sources of protein (session No. 4). In: *Nutritional Improvement of Maize*. R. Bressani, J.E. Braham, and M. Béhar (Eds.). *Proceedings of an International Conference held at the Institute of Nutrition of Central America and Panama (INCAP), Guatemala City, March 6-8, 1972*. Guatemala, C.A., Talleres Gráficos del INCAP, 1973, pp. 191-204.
53. Bressani, R., Viteri, F. and Elías, L.G. The usefulness of results with human beings in standardizing rat assays. In: *Proteins in Human Nutrition (Chapter 19)*, pp. 293-316. J.W.G. Porter and B.A. Rolls (Eds.). Academic Press, 1973.
54. Alvarado, J., Vargas, W., Díaz, N., and Viteri, F.E. Vitamin B₁₂ absorption in protein calorie malnourished children and during recovery. Influence of protein depletion and of diarrhea. *Am. J. Clin. Nutr.*, 26:595-599, 1973.
55. Contreras, C., and Viteri, F. Sialic acids content of red blood cells from protein calorie malnourished children and during recovery and from normal children and adults. *Canad. J. Phys. Pharmacol.*, 51:853-858, 1973.

56. Viteri, F.E., Flores, J.M., Alvarado, J., and Béhar, M. Intestinal malabsorption in malnourished children and during recovery. Relationship between severity of protein deficiency and the malabsorption process. *Am. J. Dig. Dis.*, 18:201-211, 1973.
57. Smith, F.R., Goodman, D.S., Arroyave, G., and Viteri, F. Serum Vitamin A, retinol-binding protein, and prealbumin concentrations. II. Treatment including supplemental Vitamin A. *Am. J. Clin. Nutr.*, 26:982-987, 1973.
58. Beghin, I., and Viteri, F.E. Nutritional rehabilitation centers: an evaluation of their performance. *J. Trop. Pediat. Env. Child. Hlth.*, 19:403-416, 1973.
59. Nichols, B.L., Alvarado, J., Kimzey, S.L., Hazlewood, C.F., and Viteri, F. Anomalies of the regulation of salt and water in protein calorie malnutrition. In: *Endocrine Aspects of Malnutrition. Marasmus, Kwashiorkor and Psychosocial Deprivation. Proceedings of a Symposium Sponsored by the Kroc Foundation held in May 1973 at its headquarters in the Santa Inez Valley, California, Lytt I. Gardner and Peter Amacher (Eds.)*, pp. 363-398.
60. Viteri, F.E. Nutritional Anemias in Central America. Iron and Folate Deficiencies. In: *Proceedings of XII Meeting of the Advisory Committee on Medical Research. PAHO Washington, D.C., July 1973.* 34 pages.
61. Nichols, B.L., Alvarado, J., Rodríguez, J.T., Hazlewood, C.F., and Viteri, F. Therapeutic implications of electrolyte water, and nitrogen losses during recovery from protein calorie malnutrition. *J. of Pediat.*, 84:759-768, 1974.
62. Schneider, R.E., Contreras, C., and Viteri, F. Studies on the luminal events of lipid absorption in protein calorie malnutrition (PCM) children; its relation with nutritional recovery and diarrhea. I. Capacity of the duodenal content to achieve micellar solubilization of lipids. *Am. J. Clin. Nutr.*, 27:777-787, 1974.
63. Schneider, R.E., and Viteri, F. Studies on the luminal events of lipid absorption in protein calorie malnutrition (PCM) children; its relation with nutritional recovery and diarrhea. II. Alteration in the bile salts of the duodenal content. *Am. J. Clin. Nutr.*, 27:788-796, 1974.
64. Viteri, F., and Torún, B. Anaemia and Physical Work Capacity. *Clinics in Haematology*, 3:609-626, 1974.
65. Viteri, F., and Schneider, R.E. Gastrointestinal alterations in protein calorie malnutrition. *Med. Clin. North Amer.*, 58: 1487-1505, 1974.
66. Nichols, B.L., and Viteri, F. On the pathogenesis of deranged nitrogen metabolism in protein calorie malnutrition. Reply to a letter to the Editor of *Journal of Pediatrics* by Dr. J.D.L. Hansen. *J. Pediat.*, 86:650-651, 1975.
67. Béhar, M., and Viteri, F. Protein-Calorie Malnutrition. *Progress in Food and Nutrition Science*, Vol. 1, No. 2, pp. 123-137. Pergamon Press, 1975.
68. Viteri, F.E., Torún, B., and Immink, M.D.C. Nutrition and Productivity. Effect of energy (calories) intake and supplementation on the productivity of agricultural laborers in Central America. In: *Proceedings of XIV Meeting of the Advisory Committee on Medical Research. PAHO, Washington, D.C., July 1975, 27 pages.*

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70. Viteri, F. Definition of the nutrition problem in the labor force. In: *Nutrition and Agricultural Development. Significance and potential for the tropics.* N.S. Scrimshaw and M. Béhar (Eds.). Proceedings of the 14th International Biological Symposium, held in Guatemala City, Guatemala, December 2-6, 1974. Chapter 8, New York, Plenum Press, 1976. pp. 87-98 (Basic Life Sciences, Vol. 7).
71. Solomons, N.W., and Viteri, F. Breath hydrogen during sleep. *The Lancet*, 2:637, 1976 (Letter to the Editor).
72. Mejía, L.A., Hodges, R.E., Arroyave, G., Viteri, F., and Torún, B. Vitamin A deficiency and anemia in Central American children. *Am. J. Clin. Nutr.*, 30:1175-1184, 1977.
73. Solomons, N.W., Viteri, F.E., and Hamilton, L.H. Application of a simple gas chromatographic technique for measuring breath hydrogen. *J. Lab. Clin. Med.*, 90:856-862, 1977.
74. Nichols, B.L., Bilbrey, G.L., Hazlewood, C.F., Kimzey, S.L., Liu, C.T., Viteri, F.E., Alvarado, J., and Beisel, W.R. Sequential changes in body composition during infection. Electron probe study. *Am. J. Clin. Nutr.*, 30:1439-1446, 1977.
75. Whalen, J.P., Horwith, M., Krook, L., McIntyre, I., Mena, E., Viteri, F., Torún, B., and Núñez, E.A. Calcitonin treatment in hereditary bone dysplasia with hyperphosphatasemia. A radiographic and histologic study of bone. *Am. J. Roentgenol.*, 129:29-35, 1977.
76. Béhar, M., and Viteri, F. Disturbances of Nutrition. I. Protein Energy Malnutrition. *Diseases of children in the subtropics and tropics.* 3rd Ed., pp. 196-221, 1978.
77. Nichols, B.L., Alvarado, J., Hazlewood, D.F., and Viteri, F. Magnesium supplementation in protein-calorie malnutrition. *Am. J. Clin. Nutr.*, 31:176-188, 1978.
78. Solomons, N.W., Viteri, F., and Rosenberg, I. Development of an internal sampling hydrogen (H₂) breath test for carbohydrate malabsorption in children: evidence for a circadian pattern of breath H₂ concentration. *Pediat. Res.*, 12:816-823, 1978.
79. Viteri, F.E., García Ibáñez, R. and Torún, B. Sodium iron NaFeEDTA as an iron fortification compound in Central America. Absorption studies. *Am. J. Clin. Nutr.*, 31:961-971, 1978.
80. Torún, B., Solomons, N.W., and Viteri, F. Lactose malabsorption and lactose intolerance: implications for general milk consumption. A position paper. Presented in: Joint FAO/WHO Meeting on Carbohydrates in Human Nutrition. Geneva, Switzerland, 16-26 September, 1979 and also published in *Arch. Latinoamer. Nutr.*, 29:445-494, 1979.
81. Solomons, N.W., García-Ibañez, R., and Viteri, F. Reduced rate of breath hydrogen excretion with lactose tolerance tests in young children using whole milk. *Am. J. Clin. Nutr.*, 32:783-786, 1979.

82. Solomons, N.W., Jacob, R.A., Pineda, O., and Viteri, F.E. Studies on the bioavailability of zinc in man. Effects of the Guatemalan rural diet and of the iron fortifying agent NaFeEDTA. *J. Nutr.*, 109:1515-1524, 1979.
83. Solomons, N.W., Jacob, R.A., Pineda, O., and Viteri, F.E. Studies on the bioavailability of zinc in man. II. Absorption of zinc from organic and inorganic sources. *J. Lab. Clin. Med.*, 94:335-343, 1979.
84. Solomons, N.W., Jacob, R.A., Pineda, O., and Viteri, F.E. Studies on the bioavailability of zinc in man. III. Effects of ascorbic acid on zinc absorption. *Am. J. Clin. Nutr.*, 32:2495-2499, 1979.
85. Solomons, N.W., García-Ibáñez, R., and Viteri, F. Reduced rate of breath hydrogen excretion with lactose tolerance tests in young children using whole milk. *Am. J. Clin. Nutr.*, 32:783-786, 1979.
86. Solomons, N.W., García, R., Schneider, R., Viteri, F., and Argueta von Kaenel, V. H₂ breath test during diarrhea. *Acta Paed. Scan.*, 68:171, 1979.
87. Young, V.R., Scrimshaw, N.S., Torún, B., and Viteri, F. Soybean protein in human nutrition: an overview. *J. Am. Oil Chemists' Soc.*, 56(3):110-120, 1979.
88. Torún, B., Schultz, Y., Viteri, F., and Brandfield, R.B. Growth, body composition and heart rate/VO₂. Relationship changes during the nutritional recovery of children with two different physical activity levels. *Biblhca. Nutr. Dieta.*, 27:55-56, 1979.
89. Viteri, F., Whitehead, R., and Young, V. (Eds.). Protein-Energy requirements under conditions prevailing in developing countries: current knowledge and research needs. United Nations University Press, Tokyo, 1979.
90. Solomons, N.W., García-Ibáñez, R., and Viteri, F.E. Hydrogen breath test of lactose absorption in adults: The application of physiological doses and whole cow's milk sources. *Am. J. Clin. Nutr.*, 33:545-554, 1980
91. Glass, R., Batres, R., Selle, C., García-Ibáñez, R., Solomons, N.W., and Viteri, F.E. The value of simple conjunctival examination in field screening of anemia. *Nutr. Rep. Internat.*, 21(3):405-412, 1980.
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93. Solomons, N.W., García-Ibáñez, R., Aycinena, P., Torún, B. and Viteri, F.E. Lactose intolerance in protein-energy malnutrition: a clinical case study and family study using a hydrogen (H₂) breath-analysis test for carbohydrate malabsorption. *Arquivos de Gastroenterologia (Sao Paulo)*, 16:137-145, 1980.
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