

## CURRICULUM VITAE

**NOMBRE** Fernando E. Viteri

**CARGO** Profesor, Departamento de Ciencias Nutricionales y Toxicología, Universidad de California, Berkeley

### ESTUDIOS CURSADOS

1955 Médico – Universidad de San Carlos, Ciudad de Guatemala, Guatemala

1965 Doctor en Medicina y Fisiología – Universidad de Cincinnati, Ohio

### ANTECEDENTES PROFESIONALES Y EXPERIENCIA

1962 Integrante de la Junta Americana de Medicina Interna

1961-1962 Becario de Hematología, Nutrición y Metabolismo, Universidad de Cincinnati, Hospital General de Cincinnati

1957-1960 Médico Residente de Medicina Interna

1960-1961 Científico investigador, Universidad de Tennessee, Oak Ridge National Laboratories, Oak Ridge, TN, EE.UU

1962-1980 Profesor de Fisiología y Jefe de la División de Biología y Nutrición, Instituto de Nutrición de América Central y Panamá (INCAP), y Universidad de San Carlos, Guatemala

1967-1972 A cargo de la evaluación hematológica de la población de América Central, para la Encuesta Nutricional de América Central.

1976-2002 Asesor y miembro de Grupos de Expertos para la Organización Mundial de la Salud (OMS), la Organización de las Naciones Unidas para la Agricultura y la Alimentación (FAO) y UNICEF Central y Argentina en diferentes oportunidades y para distintos programas de salud, alimentación y nutrición.

1981-82 Asesor Regional e Investigador del Departamento de Enfermedades no Transmisibles. Organización Panamericana de la Salud/Organización Mundial de la Salud, Washington, D. C.

1982-86 Asesor Regional y Jefe del Programa de Nutrición y Alimentos. Organización Panamericana de la Salud/Organización Mundial de la Salud, Washington, D. C.

1992-98 Miembro del Grupo Consultivo de Anemia Nutricional (International Nutritional Anemia Consultative Group - INACG); Miembro del Comité Directivo.

1986 - Profesor, Departamento de Ciencias Nutricionales, Universidad de California en Berkeley, CA, EE.UU.

1991 - Universidad de las Naciones Unidas: Coordinador del Programa Internacional de Nutrición con Hierro.

1994 – 2003 Miembro del Comité Internacional de Vigilancia Científica del estudio SU.VI.MAX, INSERM/ISTNA/CNAM, Francia

1998 Miembro del Programa Internacional de Nutrición, Departamento de Nutrición, Universidad de California, Davis

2002-2005 Investigador Principal, Children's Hospital Oakland Research Institute (CHORI)

2005 Investigador, Children's Hospital Oakland Research Institute (CHORI)

2003- 2007 Presidente del Comité Asesor Científico Internacional del Instituto de Desarrollo e Investigaciones Pediátricas (IDIP), Hospital Pediátrico de la Provincia de Buenos Aires (Sor María Ludovica).

## **PREMIOS Y DISTINCIONES**

Miembro electo de la Academia de Ciencias de Guatemala, 1977  
Galardonado con el Premio al Servicio Meritorio OPS/OMS, 1980  
Profesor Honorario de la Facultad de Medicina Francisco Marroquin, Guatemala, 1987  
Profesor Visitante, Conservatorio Nacional de Artes y Oficios, INSERM, Paris, Francia, 1992-93  
Profesor Extraordinario de la Universidad de Navarra, España, desde 1997.  
Tercer Premio por trabajo de investigación presentado en el XXXIX Congreso de Pediatría, Guatemala, 1995  
Primer Premio W.K.Kellogg por Trabajo de Investigación Latinoamericano en Nutrición Humana, 1997  
Primer Premio en el, IV Congreso de Pediatría Colombiano Bienal-COLSUBSIDIO-AMERICAS, 1999  
Miembro del Grupo de Trabajo “March of Dimes” para Nutrición y Desarrollo Humano Optimo, 1999 a 2001  
Premio Año 2000 de la Sociedad Internacional de Investigación en Nutrición, perteneciente a la Sociedad Americana de Ciencias Nutricionales.  
Conferencista principal en el XII Congreso Latinoamericano de Nutrición. Buenos Aires, Noviembre 2000  
Conferencista sobre Problemas Nutricionales en América Central America y sus soluciones en el Encuentro de Ministros de Salud de América Central en Madrid, Marzo, 2001  
Profesor en la Conferencia sobre Hierro del CDC/Emory/MI /ILSI: Creación de Estrategias Efectivas para Combatir la Deficiencia de Hierro. Atlanta, Georgia. Mayo 2001  
Investigador Electo de la Sociedad Americana de Ciencias Nutricionales, Abril, 2003  
Presidente Electo del Consejo Asesor Científico de la Sociedad Latinoamericana de Nutrición (SLAN), Diciembre 2003  
Miembro electo de la Sociedad Internacional de “Bioiron”, Diciembre 2004.  
Miembro Designado del Comité Asesor Científico del I Congreso Mundial de Nutrición en Salud Pública y VII Congreso de la Sociedad Española de Nutrición Comunitaria, Junio, 2005  
Miembro de Convergencia, elegico por la Secretaría Nacional de Ciencia y Tecnología - SENACYT-) Guatemala 2005, 2006, 2007.  
Galardonado con la Condecoración “Orden de Pedro de San José de Bethancourt”, mayor distinción al Servicio Público otorgada por el Gobierno de Guatemala a través del Ministerio de Salud, 2007.

## **TRABAJOS PUBLICADOS**

### *En inglés*

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 <sup>75</sup>Se 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).
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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., Córdón, 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. Duodenal 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.
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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.
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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.
69. Horwith, M., Núñez, E.A., Krook, L., Viteri, F., Torún, B., Mena, E., Suh, S.M., Eisenberg, E., MacIntyre, I., and Whalen, J.P. Hereditary bone dysplasia with hyperphosphatasemia: response to synthetic human calcitonin. *Clin. Endocrinol.*, 5: Suppl. 314s-352s, 1976.
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- 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).
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  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.
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