Carolina Vargas Martínez

carolina_vargas@tec.mx +525541443206 in carolinavargasphd

Passionate about nutrigenomics and nutrigenetics as important determinants of individual health. Committed to the health of the population through the study of not only biological but also social determinants of health. Interested in translational science and implementation research, especially focused on nutrition during the first thousand days of life and childhood to contribute to a healthy life across the life span.

EDUCATION

states.

Tufts University Friedman School of Nutrition Science and Policy Boston, MA Doctor in Phylosophy in Nutritional Biochemistry/Metabolism Specialization in cellular and molecular nutrition	2007
Tufts University Friedman School of Nutrition Science and Policy Boston, MA <i>Master of Science in Human Nutrition</i> Specialization in human nutrition	2000
Universidad Iberoamericana Mexico City Bachelor of Science in Nutrition and Food Science Specialization in human nutrition	1997
PROFESSIONAL EXPERIENCE	0000 mmonant
Institute for Obesity Research at Tecnológico de Monterrey Postdoctoral researcher	2022-present
Devise and design a research protocol to evaluate diet quality.	
Collaborate with different IOR investigators in the design of research protocols and in the writing	
of research grants.	·
Collaborate with interdisciplinary research groups to develop project strate	egies and study
interventions under different contexts for the study of obesity in Mexico.	
Instituto Nacional de Medicina Genómica	2008-2011
Postdoctoral researcher	
Developed nutrigenetic studies of PUFAs and inflammatory markers in different	health states.
• Carried out nutrigenomic studies related to obesity in children and adolescents.	
Coordinated clinical research tasks and activities.	
Prepared ethical and research documents.	
Coordinated communication with COFEPRIS to get exportation permits for huma	•
USDA Human Nutrition Research Center on Aging at Tufts University Graduate Research Assistant	1998-2006
	a different health
 Participated in research groups to explore the roles of vitamin B12 and folate in states. Specifically, studies on catabolism and bioavailability of folic acid. 	i dinerent nealtri
 Carried out gene-nutrient interactions studies specifically related to lipoprotein 	as and folic acid
metabolism in relation to obesity, cardiovascular disease and cancer.	
Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán	1995-1997
Undergraduate Research Assistant	1000 1007
Studied BCAA metabolism under protein deprivation conditions during pregnancy and lactating	
	ie, and addaing

RESEARCH AREAS OF INTEREST

Nutrigenomics and nutrigenetics of non-communicable diseases Obesitv Early childhood health and well-being Healthy diet Food and nutrition policies

PUBLICATIONS

- Arreola-Ornelas, H., Merino-Juárez, G.A., Contreras-Loya, D., Méndez-Carniado, O., Morales-Juárez, L., et. Al. La carga del sobrepeso y la obesidad en México de 1990 a 2021. Gac Med Mex. 2023;159:560-573 DOI: 10.24875/GMM.23000397
- Binia, A. Vargas-Martínez, C. Ancira-Moreno, M Gosoniu, L.M.. Montoliu, I. et. al. Improvement of cardiometabolic markers after fish oil intervention in young Mexican adults and the role of PPARa L162V and PPARy2 P12A. J Nutr Biochem (2017) 43:98-106. DOI:10.1016/j.jnutbio.2017.02.002
- Vargas-Martínez, C. Ordovas, JM. Wilson, PW. Selhub, J. The Glutamate Carboxypeptidase Gene II 1561 C>T Polymorphism Does Not Affect Folate Status In The Framingham Offspring Cohort. J Nutr (2002) 132: 1176-9. DOI:10.1093/jn/132.6.1176
- Torres, N. Vargas, C. Hernandez-Pando, R. Orozco, H. Hutson, S. M. Tovar, A. R. Ontogeny and subcellular localization of rat liver mitochondrial branched chain amino-acid aminotransferase. Eur J Biochem (2001) 268: 6132-9. DOI: 10.1046/j.0014-2956.2001.02563.x

TEACHING EXPERIENCE

Universidad Iberoamericana | León, Gto

2021-2024

Graduate program in Clinical nutrition. Adjunct professor of the following courses: Genetic and metabolic basis of nutrition science; Genetic basis of nutrition.

Universidad Iberoamericana | Mexico City

Undergraduate program in Nutrition and food sciences. Adjunct professor of the following courses: Nutrition and food research strategies; Cell biology and genetics; Nutrition physiology.

Escuela de Dietética y Nutrición | Mexico City 2020-2022 Graduate program in Clinical Nutrition. Adjunct professor of the following courses: Research seminar; Research project I; Research project II; Research project III.

Universidad Anáhuac Norte | Mexico City

Undergraduate program in Medicine, dentistry and nutrition sciences. Adjunct professor of the Health research methodology course.

VOLUNTARY WORK

CISV International, Mexico City chapter. Active global citizenship. CISV educates and inspires action for a more just and peaceful world. Risk Management team since April 2022.

Mujeres Líderes en STEAM, US-Mexico Leaders Network. Empowering Latino Women with STEM education. Mentor to high school women students interested in studying a degree in STEM areas since 2019.

Universidad Iberoamericana, Mexico City. Technical council of the Nutrition and Food Science undergraduate program in Universidad Iberoamericana. Council member since 2021.

2005

2015-2022