



nutrients



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Gene-Nutrient Interactions and Precision Nutrition in Human Health

Guest Editor:

Prof. Dr. A. Catharine Ross

Department of Nutrition, Institute
for Advancing Health through
Agriculture, Texas A&M
University, College Station, TX
77843, USA

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to promote a broad and comprehensive understanding of nutrient–gene interactions and their effects to the new field of precision nutrition. It is now well established that a sound understanding of gene–nutrient interactions is fundamental to precision nutrition—we must understand the interactions of nutrients with genes and the ways in which genetic makeup affects nutrient usage if we are to provide accurate and well-tailored nutritional advice at the individual and population levels. Some genes are intrinsically involved in gene–nutrient interactions because the products of these genes are directly responsible for nutrient uptake, transport, metabolism, or function. Other genes are quantitatively regulated by nutrients at the levels of transcription, translation, epigenetic modification, and by other mechanism, all of which may be affected by genomic variation. We welcome manuscripts on all aspects of how the genes themselves, genetic patterns, and nutrients interact at the basic cellular and physiological levels, and how they serve as determinants of individual and population health.



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Special *Issue*



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Prof. Dr. Lluís Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
2. Research Institute of Biomedical and Health Sciences (IUIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las Palmas, Spain

Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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Nutrients Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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