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Zinc in Health and Disease

Guest Editors:

Prof. Samir Samman

Honorary Professor in Nutrition & Metabolism, University of Sydney
NSW 2006 Australia

Dr. Nicola Lowe

Centre for Global Development,
Faculty of Health and Wellbeing,
University of Central Lancashire,
Preston PR1 2HE, UK

Dr. Arthur Grider

Department of Foods and
Nutrition, The University of
Georgia, Athens, GA 30602, USA

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Message from the Guest Editors

Dear Colleagues,

Zinc contributes to the proper functioning of numerous enzymes, the structural integrity of cellular components, and regulation of gene expression. Zinc is widely distributed in foods, and its bioavailability is affected by other dietary constituents. Regulation of zinc metabolism is achieved through a balance of absorption and excretion and involves adaptive mechanisms. Zinc ions influence a number of signal transduction pathways, including insulin signaling, and regulate leptin secretion from adipose tissue, potentially linking cellular zinc metabolism to apoptosis, insulin resistance and dyslipidemia. The aim of this focus issue is to explore zinc bioavailability, biomarkers of zinc status, and the relationships between zinc intake and chronic disease.

Dr. Samir Samman

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Dr. Arthur Grider

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Special Issue



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1. Centro de Investigación
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(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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Contact Us

Nutrients Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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