

Special Issue

Antioxidants in Diet: Metabolic Impacts and Mechanisms of Action

Message from the Guest Editor

What can potentially be a defensive strategy against oxidative damage by reactive oxygen species? The excessive production of reactive oxygen species (superoxide, peroxide, and hydroxyl radical) damages various cellular functions and causes chronic diseases such as diabetes and cancer. Plant phenolic phytochemicals, vitamin C, and vitamin E are antioxidants that decrease oxidative stress by quenching reactive oxygen species. Therefore, edible plants that are rich in phenolic phytochemicals, vitamin C, and vitamin E are beneficial. Considerable evidence showing these phytochemicals are pharmacologically safe but poorly bioavailable in the cells is now available. Large oral doses are safe but are cleared from the system via mechanisms such as glucuronidation. This area needs more attentive research and carries limitless potential in terms of serving as an effective therapeutic for various cancers, diabetes, and obesity.

Guest Editor

Dr. Sita Aggarwal
Department of Chemistry and Physics, Southeastern Louisiana
University, Hammond, LA 70402, USA

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Nutrients
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nutrients@mdpi.com

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Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

Editors-in-Chief

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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