# **Special Issue**

# Advanced Determination and Nutritional Assessment of Trace Elements in Food: Beneficial and Harmful Trace Elements

# Message from the Guest Editors

In food, elements found in low concentrations (mg kg-1) are commonly defined as trace elements, and they are essential for human nutrition. Nonetheless, some trace elements do not have an established role and are classified as non-essential or inorganic contaminants. Low levels of inorganic contaminants, such as arsenic, cadmium, lead and mercury, have toxic effects on human health and are regulated by health agencies. Furthermore, food components undergo biotransformation processes after consumption, and bioaccessibility and bioavailability studies are currently being conducted to enhance the accuracy of potential risk assessment. This Special Issue welcomes original research articles and systematic reviews related to the determination and nutritional assessment of trace elements in food, such as the optimization of analytical methods, novel methods based on the Green Chemistry principles, and bioaccessibility and bioavailability studies for trace elements in foodstuffs. Original research articles and reviews on the risk assessment of trace elements in novel foods, such as plant-based and alternative proteins foods, are also welcome in this Special Issue.

### **Guest Editors**

Dr. Raquel Fernanda Milani

Institute of Food Technology (ITAL), P.O. Box 139, Campinas 13070-178, SP, Brazil

Dr. Marcelo Antônio Morgano

Institute of Food Technology (ITAL), P.O. Box 139, Campinas 13070-178, SP, Brazil

### Deadline for manuscript submissions

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# **Foods**

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

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## Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

#### **Editor-in-Chief**

#### Prof. Dr. Arun K. Bhunia

- 1. Department of Food Science, Purdue University, West Lafayette, IN 47907, USA
- 2. Department of Comparative Pathobiology, Purdue University, West Lafavette. IN 47907. USA

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