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Food Processing, Cooking and the Digestive System Modify the Bioaccessibility of Bioactive Compounds in Foods

Guest Editors:

Prof. Dr. Angela Conte

Department of Life Sciences,
University of Modena and Reggio
Emilia, Via Amendola 2, 42100
Reggio Emilia, Italy

Dr. Davide Tagliazucchi

Department of Life Sciences,
University of Modena and Reggio
Emilia, Via Amendola 2, 42100
Reggio Emilia, Italy

Dr. Serena Martini

Department of Life Sciences,
University of Modena and Reggio
Emilia, Via Amendola 2, 42100
Reggio Emilia, Italy

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Message from the Guest Editors

Dear Colleagues,

The health benefits of the bioactive compounds of foods from plant or animal sources mainly depend on their bioaccessibility and bioavailability. The potential of bioactive compounds to exert their effects relies on their release from the matrix, and changes during digestion, absorption, metabolism and biodistribution.

In vitro standardised methods to simulate the different phases of digestion, including large intestinal fermentation, are widely used and permit the bioaccessibility of bioactive compounds to be determined. In vitro standardised gastrointestinal digestion can also be used to evaluate the influence of different food processing technologies on bioactive compounds bioaccessibility. Storage and processing conditions are important factors influencing the bioaccessibility/bioavailability of bioactive compounds in food formulations, and it is, therefore, important to consider the role these processes play.

The study of how food processing technologies and digestion affect the bioaccessibility/bioavailability of bioactive compounds is important for a full understanding of how these molecules interact with human physiological and pathological processes.



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Special Issue



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Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science,
Purdue University, West
Lafayette, IN, USA

2. Department of Comparative
Pathobiology (Courtesy), Purdue
University, West Lafayette, IN,
USA

Message from the Editor-in-Chief

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Contact Us

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

Tel: +41 61 683 77 34
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