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New and Clean Technologies for Extraction Using Microwave Energy

Guest Editors:

Prof. Dr. Jesus Miguel Lopez Rodilla

Department of Chemistry, Universidade da Beira Interior, FibEnTech-UBI, UMR Rua Marques de Ávila e Bolama, 6201-001 Covilhã, Portugal

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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Message from the Guest Editors

In recent years, we have seen the appearance of new technologies for extraction, providing faster separation from the matrix and very much comparable with validated and well-known traditional tedious and hard labor methods. The new technologies for the extraction involved are directed mainly for the laboratory processes. The objective could be food profiling, analysis of content for researching added value compounds, food labelling, authenticity, contaminant analysis, guality control, and value determination, amongst others. One field in particular has been developing in a very interesting way, applying microwave energy in order to accelerate the process of extraction. Microwaves can heat very fast and effectively and promote the use of less or no solvent at all, whilst improving extraction efficiency by rising the pressure. The use of microwaves is widely spread now to digest samples in order to analyze metal contaminants or nutrients. Using similar approaches, the extraction follows a new and potential route for expanding the capabilities of the technology.









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Editor-in-Chief

Prof. Dr. Arun K. Bhunia

Department of Food Science, Department of Comparative Pathobiology (Courtesy), Purdue University, West Lafayette, IN, USA

Message from the Editor-in-Chief

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