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Micro- and Nano-Encapsulation of Volatile and Non-volatile Bioactive Compounds, Their Controlled Release in Food Systems, and Targeted Delivery in the Digestive System

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Message from the Guest Editors

Volatile and non-volatile bioactive compounds play important roles in food safety and the sensory and nutritional properties of food. However, most bioactive compounds are unstable under harsh food processing conditions and in the human digestive system. Hence, encapsulation is mandatory to ensure their protection and effective application in various food systems. The efficient encapsulation is also crucial for control and targeted delivery, ensuring their efficient applications. There are synergistic influences from carrier agents and encapsulation techniques that impact the stability, bioavailability, and control release of bioactive compounds depends. The ultimate targeted benefit from a bioactive compound often requires careful consideration of encapsulation techniques, encapsulation conditions, and suitable carrier agents. Therefore, this Special Issue aims to feature high-quality reviews and original research articles on the micro- and nano-encapsulation of volatile and non-volatile compounds, encapsulation techniques, efficient carrier agents/systems, controlled release of micro- and nano-encapsulated bioactive compounds in foods or through food systems.



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Special Issue



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Message from the Editor-in-Chief

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