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## Advances in NIR Spectroscopy Analytical Technology in Food Industries

Guest Editors:

**Prof. Dr. Ernestina Casiraghi**

Department of Food,  
Environmental and Nutritional  
Sciences (DeFENS), Università  
degli Studi di Milano, Via Celoria,  
2, 20133, Milano, Italy

**Dr. Silvia Grassi**

Department of Food,  
Environmental and Nutritional  
Sciences (DeFENS), Università  
degli Studi di Milano, Via G.  
Celoria 2, 20133 Milan, Italy

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### Message from the Guest Editors

The concept of Industry 4.0 has prompted a reorganization of the control systems to optimize the production, guaranteeing safer food. Process Analytical Technology, a.k.a. PAT.

Near Infrared Spectroscopy (NIRS) serves the PAT approach as promising process analyser among e-sensing technologies, thanks to its ability in fingerprinting materials and simultaneously analysing different physicochemical phenomena occurring along the process.

The implementation of NIRS Analytical Technology in Food Industries offers some obvious advantages which include controlled and optimized utilization of raw materials, reduction in process cycle time, replacement of slow and costly laboratory testing, and, most importantly, it enables continuous learning, envisioning process and product innovation.

This Special Issue is dedicated to bridge the gap between NIRS potentials and its actual implementation as Analytical Technology in Food Industries. The goal is to close the control loop providing an efficient and automated processing management that could contribute to the minimisation of the environmental footprint of food processing.



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# Special Issue



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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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## Contact Us

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*Foods* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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