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Whole-Cell System and Synthetic Biology

Guest Editors:

Prof. Dr. Zhihong Xin

Key Laboratory of Food Processing and Quality Control, College of Food Science and Technology, Nanjing Agricultural University, Nanjing 210095, China

Dr. Jingjing Tian

Key Laboratory of Food Processing and Quality Control, College of Food Science and Technology, Nanjing Agricultural University, Naniing 210095, China

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Message from the Guest Editors

The whole-cell system has been of great interest recently and has advanced the analysis and manufacturing techniques in the past decade, benefitted by the development of molecular biology and synthetic biology. Key issues gaps in the area are as follows: (1) Gene interactions and regulatory networks still need to be explored. (2) Technical approaches need to be upgraded to edit the whole cell system. (3) The performance of the whole-cell system needs to be improved. (4) How to effectively apply the whole cell system in food, environment and other fields needs to be understood. Therefore, the aim of this Special Issue is to summarize and broaden the knowledge in new gene circuits, innovative molecular modification methods and the application of whole cell systems.

Authors are invited to submit original research and review articles which address the areas discussed above. Topics include but are not limited to:

- Identification and mining of new molecular networks in whole-cell systems;
- Methods for upgrading and the modification of whole-cell systems;
- Application of whole-cell systems in food. environment and other fields













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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

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