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Engineered and Cell-Based Meat and Seafood

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Deadline for manuscript submissions:

closed (10 October 2020)

Message from the Guest Editors

It has been estimated that the world population will reach 9 billion by 2050, for which food production must increase by 70% and meat production must increase 100% to meet the global demand. The current agricultural practices and food production systems are unsustainable. Particularly, in the seafood supply chain, there is an unmet need to develop alternative seafood products. Hence, there is an urgent need to develop and adopt new technologies for seafood and meat production including cell-based and plant-based meat and seafood. In-vitro cultured muscle from meat-producing animals is an emerging technology that plague conventional production methods. Cell-based products could be produced as disease and pathogen-free products resulting in foods without chemical and drug residue. Furthermore, cell-based products could provide clear traceability and solve the mislabeling issue.

Although the cell-based and plant-based meat and seafood industry is growing rapidly, this industry is still very new and requires extensive investment and research to be able to meet the market requirement and compete with harvested meat and seafood, in terms of texture, flavor, appearance, and price.



mdpi.com/si/41971

Special Issue



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Message from the Editor-in-Chief

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