

Special Issue

Biotechnology and Innovation in Sustainable Food System

Message from the Guest Editors

Dear Colleagues: Biotechnology has brought significant innovation to the food system, offering new and improved ways to produce, process, and distribute food. In this Special Issue, research areas may include (but are not limited to) the following:

1. Rapid detection methods: Biotechnology has led to the development of fast detection methods for foodborne pathogens.
2. Antibiotic alternatives: Antibiotic resistance is a growing concern in the food industry, and biotechnology has offered potential options to traditional antibiotic use in food production.
3. Blockchain technology: Blockchain technology can improve food traceability and transparency, allowing for better tracking of food products from farm to table.
4. CRISPR-Cas technology: CRISPR-Cas technology can be used to edit the DNA of foodborne pathogens, making them less virulent and reducing their ability to cause illness.
5. Nanotechnology: Nanotechnology can be used to create antimicrobial coatings for food packaging, reducing the risk of contamination and extending the shelf life of food products.

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