



challenges

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Current Challenges in Food Microbiology

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Message from the Guest Editors

Dear Colleagues,

Food safety concerns caused by microbial contaminants or their toxic metabolites are currently an enemy to fight on a global scale. Measures of contamination prevention or reduction are therefore extremely needed to warrant consumer's health. Use of beneficial microorganisms to contrast colonization and growth of hazardous ones in food production plants and in food products is a valid arm to reduce this health risk. In this Special Issue of the journal *Challenges*, we would like to collect research, research ideas or review articles describing the progresses achieved to solve this problem in different food production sectors through the exploitation of beneficial microbial agents or their products, as well as natural preservatives. In particular, remedies to the following food safety concerns may be addressed: contamination by ubiquitous microbial pathogens, biofilm formation, emerging pathogens, antimicrobial resistance spread, formation of biogenic amines or other toxic compounds.

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Guest Editors



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Special Issue

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Message from the Editor-in-Chief

Addressing scientific advancements and technological processes responding to societal needs are the new frontiers that humankind needs to face and cope with. Discovery and advances in basic research, synthetic biology, biochemistry, material science and biosystems engineering, are providing cutting edge progress and solutions. Scientists from multidiscipline fields are invited to discuss challenging science and research, and technology innovations in *Challenges* aimed towards solving current problematic issues.

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