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The Role of Biofilms in the Development and Dissemination of Microbial Resistance within the Food Industry

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Message from the Guest Editors

Biofilms are multicellular sessile microbial communities embedded in hydrated extracellular polymeric matrixes. This is common in microbial life in most environments, while those formed on food-processing surfaces are of considerable interest in the context of food hygiene. Biofilm cells express properties that are distinct from planktonic ones; one such property is their notorious resistance to antimicrobial agents. A great deal of ongoing research has investigated how and why surface-attached microbial communities develop such resistances, and several mechanisms are to be acknowledged (e.g., heterogeneous metabolic activity, cell adaptive responses, diffusion limitations, genetic and functional diversification, and microbial interactions). This Special Issue aims to deliver deep insight into all these mechanisms, focusing on the role of biofilms in the development and dissemination of microbial resistance within the food industry.



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Special Issue



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Message from the Editor-in-Chief

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