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Detersive Formulations for Cleaning and Disinfection in the Food Industry II

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Message from the Guest Editors

Food industries require regular cleaning and disinfection operations to reach a high quality of food conforming to legal dispositions. The washing process has to remove amylaceous, lipid, and protein-based dirt mainly, although these are usually mixed, creating mixed dirt. The existence of microorganisms can also generate the formation of biofilms that are difficult to remove.

To achieve the required degree of cleaning and disinfection, washing protocols are established and detergent formulations are adapted to the characteristics of the dirt and the nature of the surfaces of the equipment and industrial facilities, usually made of stainless steel. These protocols and formulations can incorporate surfactants (anionic, nonionic, cationic, etc.), enzymes (amylases, lipases, proteases, etc.), nanoparticles, ozone, disinfectants, and other chemical compounds that allow effective cleaning for the different types of dirt that can be found in these industries.

Keywords: cleaning food industries; detergent; surfactants; biofilm; disinfection; enzymes; nanoparticles; ozone



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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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