Special Issue

Nano-systems for Antimicrobial Therapy

Message from the Guest Editors

Antimicrobial nanoparticles and nanocomposite materials have caused increasing interest over the past 20 years. Several nano-systems have been shown to be able to contribute to fight bacterial proliferation, prevent infections, and limit the enormous problem of biofilm formation on surfaces, prostheses, internalized medical devices, and in all cases where microbial presence is a factor of risk for human health. The development of innovative approaches for the realization of microbicidal and antibacterial nano-systems is flourishing and increasing scientific, technological, and industrial interests are paving the way to new types of active materials. The time is right for an overview of the considerable efforts that are being carried out, and which are still needed to obtain efficient nano-systems with the ability to limit the proliferation of micro-organisms, or to achieve their complete eradication.

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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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