

Special Issue

Photosensitizers and Drug Delivery Systems for Antimicrobial Photodynamic Therapy

Message from the Guest Editors

Infectious diseases constitute a relevant health problem worldwide, especially considering the emergence of antimicrobial resistance (AMR) and new pathogen outbreaks. The development of alternative treatments to antibiotics is urgent, and represents one of the measures to tackle the AMR crisis. Antimicrobial photodynamic therapy (aPDT) is a potential treatment option with the advantage when compared to antibiotics that it does not present a single biomolecule or biological process target. The main mechanism of action of aPDT relies on the production of oxygen reactive species, which damage different types of biomolecules, mostly lipids and proteins. In this sense, photodynamic inactivation has already been proven on different species of bacteria, fungi and viruses. In this present Special Issue, studies reporting original data or updated literature reviews concerning photosensitizers and delivery methods for antimicrobial photodynamic therapy are welcome.

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