

Special Issue

Antimicrobial Sonodynamic and Photodynamic Therapies

Message from the Guest Editors

Global changes have influenced the existing infectious diseases, such as vector-borne illness, and the emergence of new pathogens, which may result in epidemics and pandemics. Moreover, the overuse of antimicrobial agents (antibiotics and antifungals) has led to the problem of antimicrobial resistance. Multidrug-resistant pathogens are difficult to treat and cause diseases with high morbidity and mortality; sometimes no option of treatment is available. Microbial biofilms are also a challenge, because they require high concentrations of antimicrobials for their inactivation and are responsible for chronic and recurrent diseases. Therefore, the development of alternative therapies is encouraged, and antimicrobial photodynamic and sonodynamic therapies (aPDT and aSDT) have been studied in the battle against new and/or resistant microbes. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: new photosensitizers (PS) and formulations, biofilms, combination therapy, cell biology, molecular biology, biophotonics, oxidative stress, and virulence.

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