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Pharmaceutical Formulations with Antimicrobial Properties

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Numerous studies on the systemic administration of antimicrobial drugs can be found in the literature. However, there are many challenges related to site-specific drug delivery, unwanted side effects, and even potential toxicity. In order to address these, it is necessary to explore new approaches to the administration of active principles with antimicrobial properties. Therefore, in this issue, we will focus on new delivery systems for antimicrobial applications, with a major emphasis on topical and targeted delivery. Examples of antimicrobial applications include wound healing; the prevention and treatment of periodontal diseases and tooth decay; and the treatment of ear, skin, urinary tract, vaginal, or respiratory infections. The systems used to release antimicrobial principles could take the form of gels, hydrogels, emulsions, micro- and nanoparticles (spheres, capsules, liposomes), or nanofibers.

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