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Towards improving in drug delivery using silver nano-techniques

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The emergence of multidrug resistant bacteria has necessitated the development of novel groups of antibiotics that effectively block or subvert bacterial growth. It has been reported that different efforts and diverse investments have been made to develop novel strategies for improving the concept of antibiotic delivery that could enhance the limited activity of those vital antibiotics against such types of bacteria. In the present study, amoxicillin trihydrate and neomycin sulphate were used for the first time as both reducing and capping agents in synthesis of silver nanoparticles (AgNPs). The synthesized AgNPs were evaluated for their antibacterial and synergistic activity with antibiotics against selected human pathogenic bacteria.

Biography

Shaaban K Mohamed has completed his PhD at the Minia University and Postdoctoral studies from Didsburg University School of Chemistry, Germany and Manchester Metropolitan University, UK. He is a member of RSC and received the Knowledge Exchange award 2013, MMU, UK. He has published more than 260 papers in reputed journals and has been serving as an Editorial Board Member of reputed journals such as *International Journal of Chemistry and Pharmaceutical Research*, *Greener Journal of Pharmacy and Pharmacology*, and *Journal of Pharmaceutical and Applied Chemistry*.

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