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**Utilizing eco-friendly nanoparticle techniques in improving drug deliver****Shaaban K Mohamed<sup>a,b\*</sup>, Mohamed A Mohamed<sup>c</sup> and Nivien A Nafady<sup>d</sup>**<sup>a</sup>Manchester Metropolitan University, UK<sup>b</sup>Minia University, Egypt<sup>c</sup>Agricultural Research Center, Egypt<sup>d</sup>Assuit University, Egypt.

The emergence of multidrug resistant (MDR) bacteria has necessitated the development of novel groups of antibiotics that effectively block or subvert bacterial growth [1,2]. 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 [3,4]. 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.

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