Letter to the editor: Gold nanoparticle: bactericidal effect and safety?

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Editor, I read the recent report by Song et al. with a great interest [1]. I agree with the hypothesis of Song et al. but I have some critical concern on discussion and conclusion [1]. Song et al. reached to a conclusion that “the gold nanoparticles combined with amber suppressor tRNA could be a future antibacterial agent. Because it can be easily delivered to cells and is only toxic to one species of bacteria with little side effects to human cells [1].” First, the gold nanoparticle has a bactericidal effect without specificity in its nature. Hence, with or without combination with suppressor tRNA, it still seems to present non specific bactericidal activity [2]. Second, the complete investigations on the side effects of this combination have to be done. Indeed, several side effects of gold nanoparticle in human cells have to be mentioned [3].

References