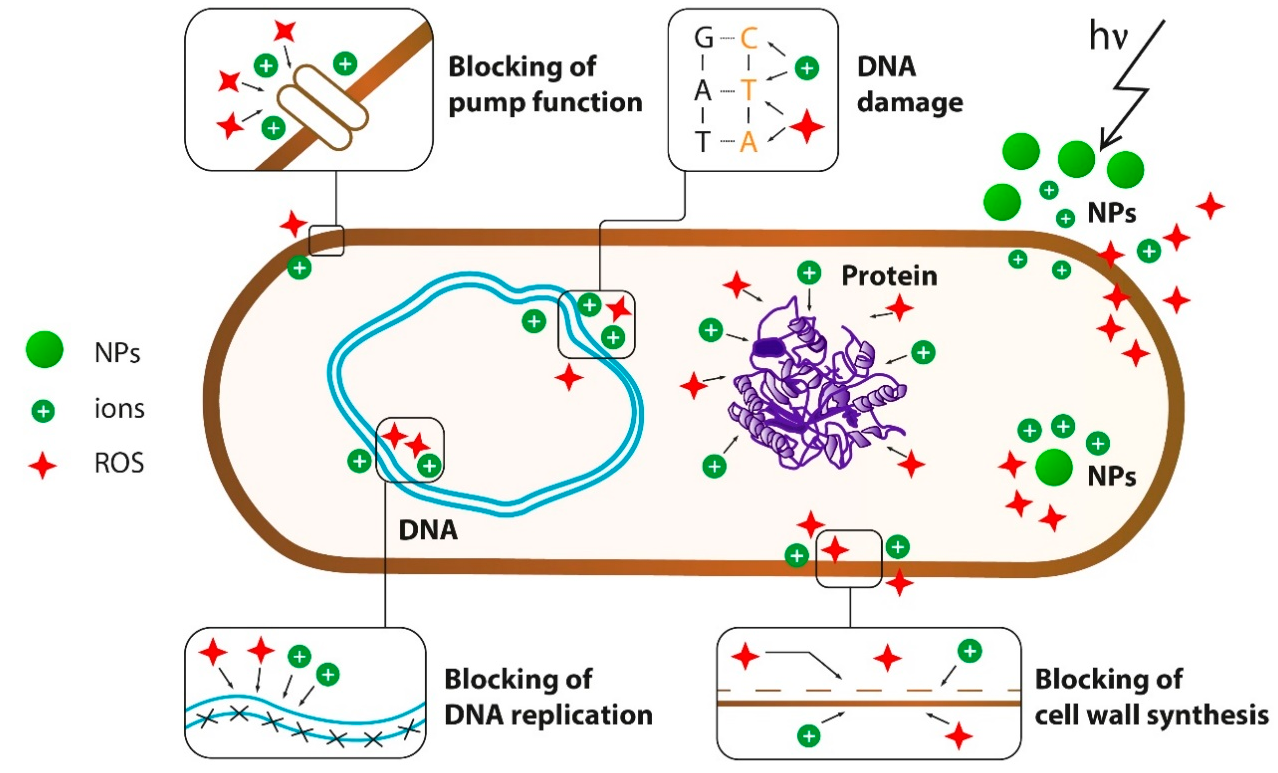


**Fig. 1: Stages of biofilm formation(13)**



**Fig. 2: Actions of metal oxide nanoparticles on bacterial cell.**

Brown line: cell surface (cell wall and membrane), blue line: DNA, and arrow: electromagnetic irradiation (21)