

ELECTRONIC SUPPLEMENTARY INFORMATION

Synthesis and Antimicrobial Activity of Aminoglycoside-Conjugated Silica Nanoparticles on Clinical and Resistant Bacteria

Shrish Agnihotri,^{a,c} Rajiv Pathak,^b Diksha Jha,^b Indrajit Roy,^c Hemant K. Gautam,^b Ashwani K. Sharma^a and Pradeep Kumar^{*a}

^a Nucleic Acids Research laboratory, CSIR-Institute of Genomics and Integrative Biology, Mall Road, Delhi-110007, India

^b Microbial Biotechnology Laboratory, CSIR-Institute of Genomics and Integrative Biology, Sukhdev Vihar, Mathura Road, New Delhi-110025, India

^c Department of Chemistry, University of Delhi, Delhi-110007, India

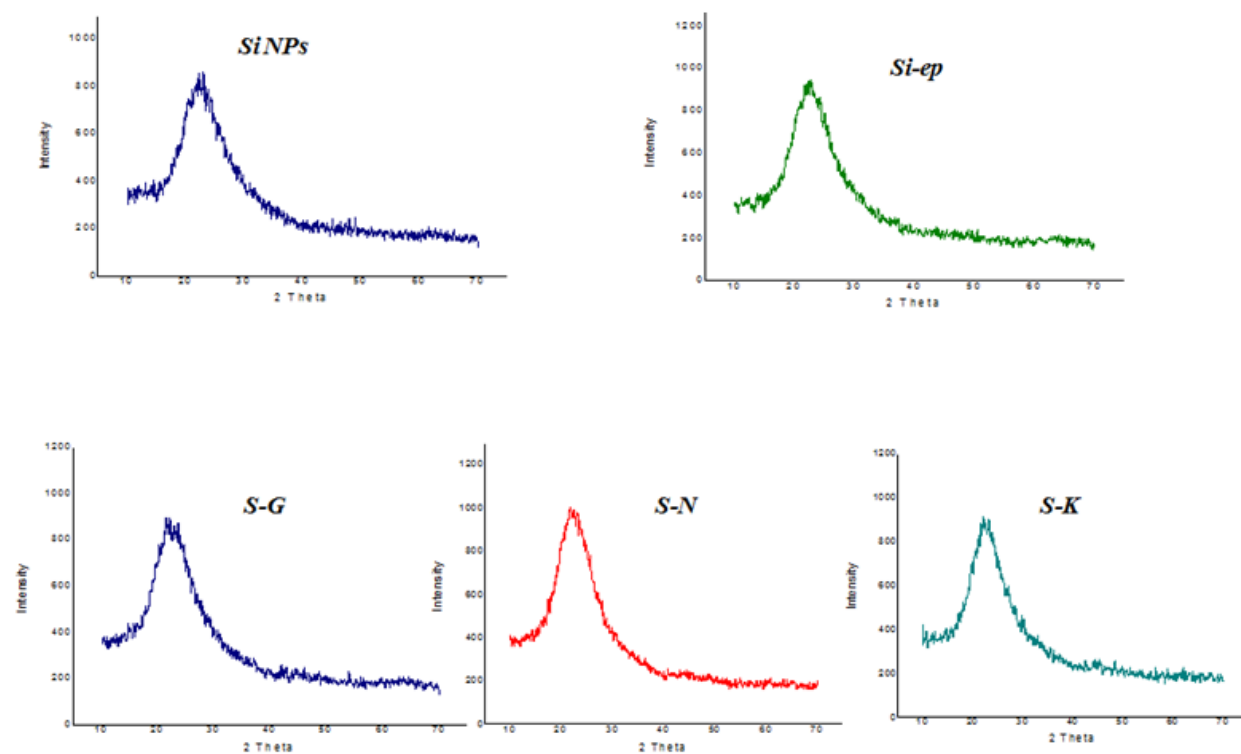


Figure S1. XRD spectra of native and modified silica nanoparticles.

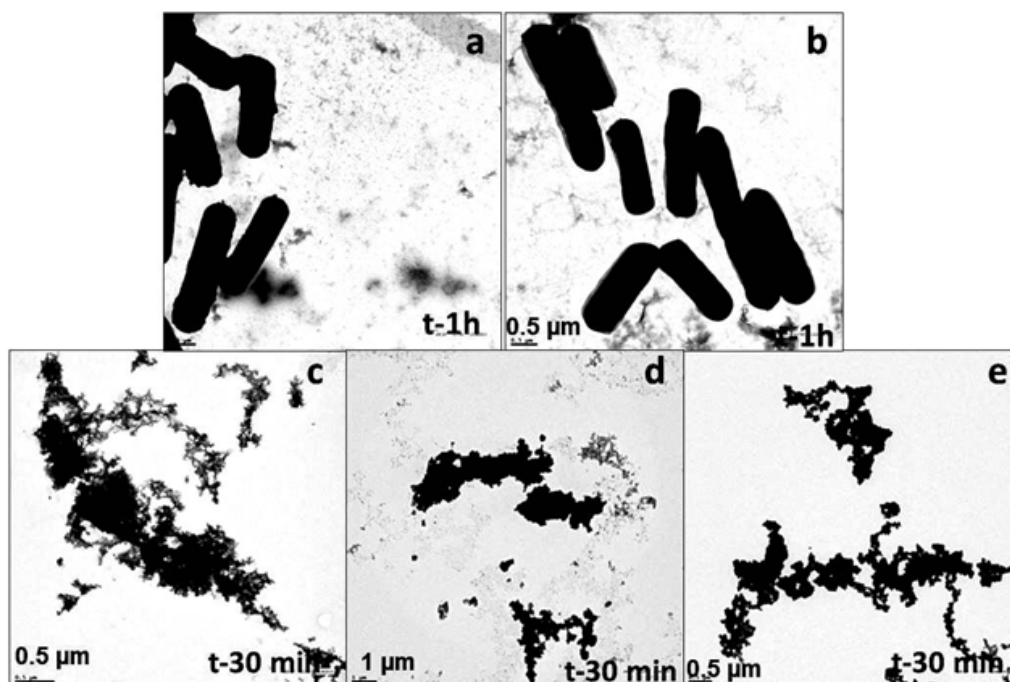


Figure S2. TEM images of *Bacillus cereus* (BC) (a) untreated, (b) treated with native silica nanoparticles (Si-NPs) at concentration of 2000 μg/ml for 1 h, (c) treated with silica-gentamicin (S-G) at concentration of 350 μg/ml (5x MIC) for 30 min, (d) treated with silica-kanamycin (S-K) at concentration of 1900 μg/ml (5x MIC) for 30 min, and (e) treated with silica-neomycin (S-N) at concentration of 400 μg/ml (5x MIC) for 30 min.