

Supporting Information

Dioscorea bulbifera mediated synthesis of novel

Au_{core}Ag_{shell} nanoparticles with potent antibiofilm and antileishmanial activity

Sougata Ghosh,¹ Soham Jagtap,¹ Piyush More,¹ Usha J. Shete,² Neeraj O. Maheshwari,² Shilpa J. Rao,³ Rohini Kitture,⁴ Sangeeta Kale,⁴ Jayesh Bellare,⁵ Shivprasad Patil,² Jayanta K. Pal³ and Balu A. Chopade^{6*}

¹*Institute of Bioinformatics and Biotechnology, University of Pune, Pune-411007, India;* ²*Nanomechanics Laboratory, Department of Physics, Indian Institute of Science, Education and Research, Pune, India;* ³*Cell and Molecular Biology Laboratory, Department of Biotechnology, University of Pune, Pune-411007, India;* ⁴*Department of Applied Physics, Defense Institute of Advanced Technology, Girinagar, Pune-411025, India;* ⁵*Department of Chemical Engineering, Indian Institute of Technology, Bombay, Powai, Mumbai-400076, India;* ⁶*Department of Microbiology, University of Pune, Pune-411007, India.*

chopade@unipune.ac.in

List of figures	Page no.
Figure S1. Force curve for <i>A. baumannii</i> biofilm formation (untreated control) and inhibition (treated with Au _{core} Ag _{shell} NPs)	S2
Figure S2. Characterization of Au _{core} Ag _{shell} NPs synthesized by DBTE employing transmission electron microscopy. Core shell nanoparticles seen at various magnifications (a) inset bar indicating 50 nm and (b) with inset bars equivalent to 20 nm.	S2

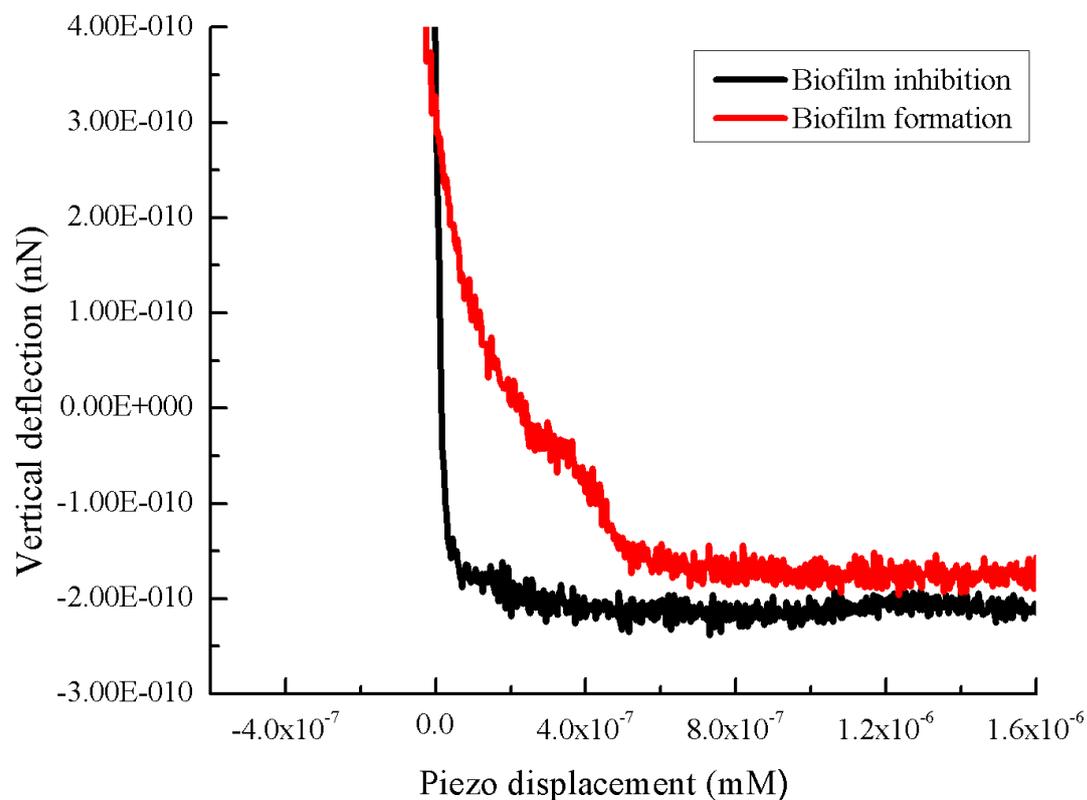


Figure S1. Force curve for *A. Baumannii* biofilm formation (untreated control) and inhibition (treated with $\text{Au}_{\text{core}}\text{Ag}_{\text{shell}}\text{NPs}$).

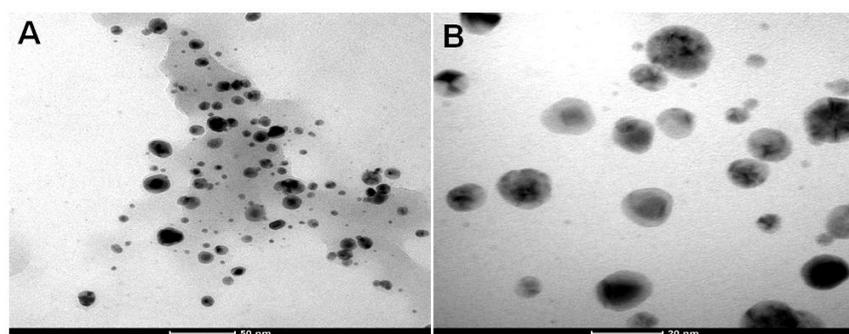


FIGURE S2: Characterization of $\text{Au}_{\text{core}}\text{Ag}_{\text{shell}}\text{NPs}$ synthesized by DBTE employing transmission electron microscopy. Core shell nanoparticles seen at various magnifications (a) inset bar indicating 50 nm and (b) with inset bars equivalent to 20 nm.