



Supplementary Materials

Substrate-Independent Antibacterial Coatings with Optimal Concentration of Covalently Immobilised Silver Nanoparticles That Support Osteogenesis

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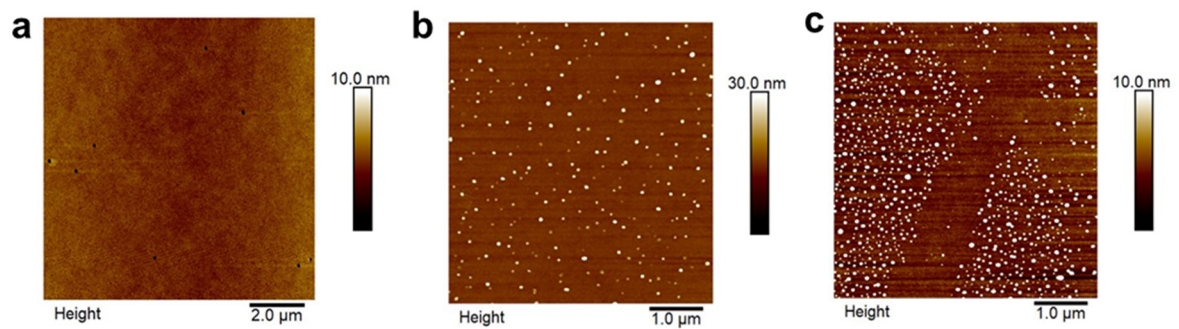
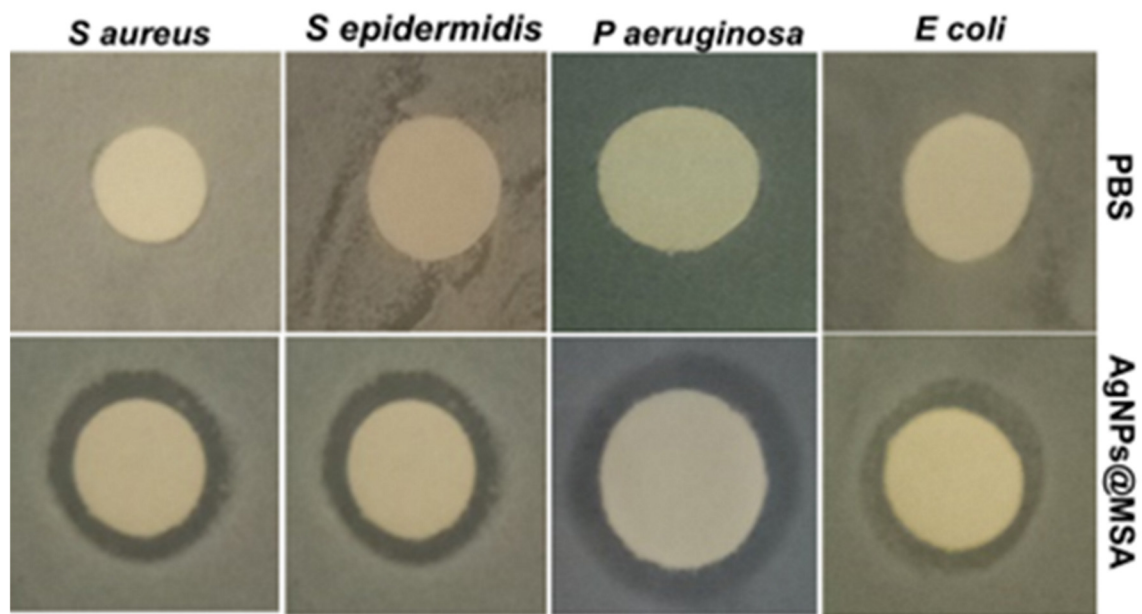
Table S1. List of primers used for RT-qPCR.

TNFα	Forward primer: 5'-CTGAACCTCGGGGTGATCGG-3'
	Reverse primer: 5'-GGCTTGTCACCTCGAATTTTGAGA-3'
IL18	Forward primer: 5'-TGGCCGACTTCACTGTACAAC-3'
	Reverse primer: 5'-TGGGGTTCCTGGCACTTTG-3'
IL1β	Forward primer: 5'-TGGAGAGTGTGGATCCCAAG-3'
	Reverse primer: 5'-GGTGCTGATGTACCAGTTGG-3'
IL6	Forward primer: 5'-ATAGTCCTTCCTACCCCAATTTCC-3'
	Reverse primer: 5'-GATGAATTGGATGGTCTTGGTCC-3'
IL10	Forward primer: 5'-GAGAAGCATGGCCCAGAAATC-3'
	Reverse primer: 5'-GAGAAATCGATGACAGCGCC-3'
IL1ra	Forward primer: 5'-CTCCAGCTGGAGGAAGTTAAC-3'
	Reverse primer: 5'-CTGACTCAAAGCTGGTGGTG-3'
CD206	Forward primer: 5'-AGACGAAATCCCTGCTACTG-3'
	Reverse primer: 5'-CACCCATTCGAAGGCATTC-3'
Arginase	Forward primer: 5'-GGAATCTGCATGGGCAACCTGTGT-3'
	Reverse primer: 5'-AGGGTCTACGTCTCGCAAGCCA-3'
CD11c	Forward primer: 5'-ACTTCACGGCCTCTCTTCC-3'
	Reverse primer: 5'-CACCAGGGTCTTCAAGTCTG-3'
CCR7	Forward primer: 5'-ATGACGTACCTACAGCCTG-3'
	Reverse primer: 5'-CAGCCCAAGTCCTTGAAGAG-3'
iNOS	Forward primer: 5'-CAGAAGTGCAAAGTCTCAGACAT-3'
	Reverse primer: 5'-GTCATCTTGTATTGTTGGGCT-3'
CD86	Forward primer: 5'-CTGCTCATCATTGTATGTAC-3'
	Reverse primer: 5'-ACTGCCTTCACTCTGCATTG-3'
18S	Forward primer: 5'-CGGAAGTGAAGCCATGATTAAG-3'
	Reverse primer: 5'-GTATCTGATCGTCTTCGAACCTCC-3'



Table S2. The annular radii of bacterial inhibition zones of samples treated with *S. epidermidis*, *S. aureus*, *E. coli* and *P. aeruginosa*.

Samples	Zone of Inhibition (mm)			
	<i>S. epidermidis</i>	<i>S. aureus</i>	<i>E. coli</i>	<i>P. aeruginosa</i>
Control	-	-	-	-
POX	-	-	-	-
Ag-6h	2.5 ± 0.707	1.4 ± 0.91	1.8 ± 0.53	1.4 ± 0.47
Ag-24h	3.3 ± 0.62	1.08 ± 0.01	1.2 ± 0.45	2.5 ± 1.18

**Figure S1.** AFM images of (a) POX, (b) Ag-6h, and (c) Ag-24h.**Figure S2.** Zone of inhibition assay of uncoated coverslips, control and AgNPs@MSA against bacterial strains including *E. coli*, *S. epidermidis*, *P. aeruginosa* and *S. aureus*.