

## Supplementary information

### Antimicrobial Electrodeposited Silver-Containing Calcium Phosphate Coatings

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**Planktonic bacteria reduction on the Ag/Ca-P coatings:**

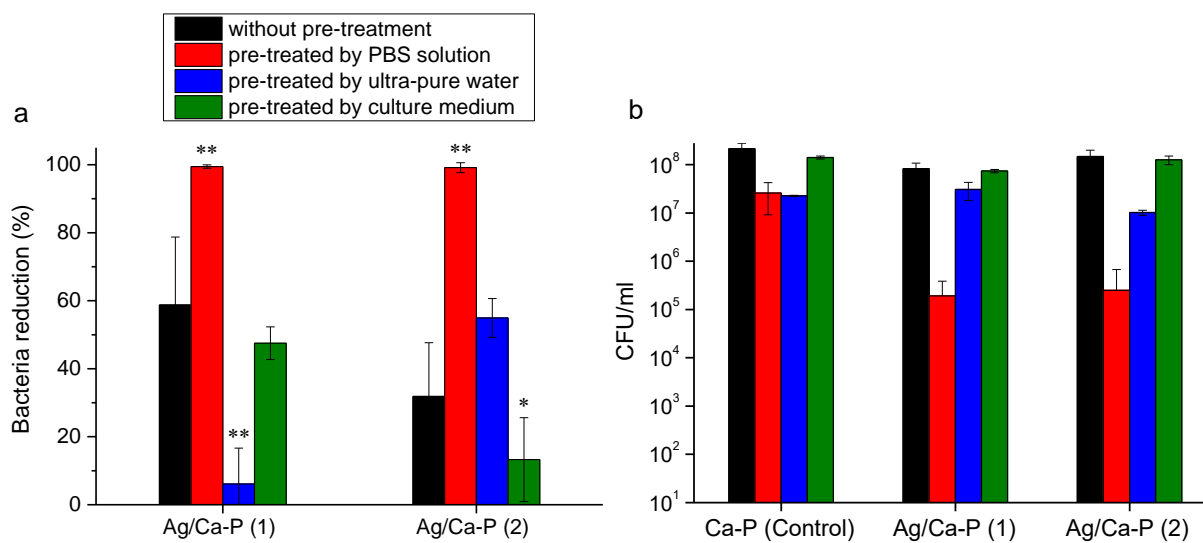


Fig. S11. (a) Percentage of bacteria reduction against *S. aureus*, and (b) number of CFUs within planktonic suspension.

**An image of coated Ti disc:**

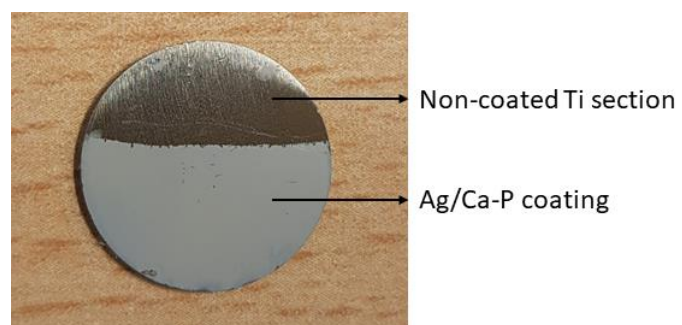


Fig. S12. A titanium disc partially coated with Ag/Ca-P coating.

Fluorescence microscopy images of *S. aureus* on non-coated Ti section of the samples:

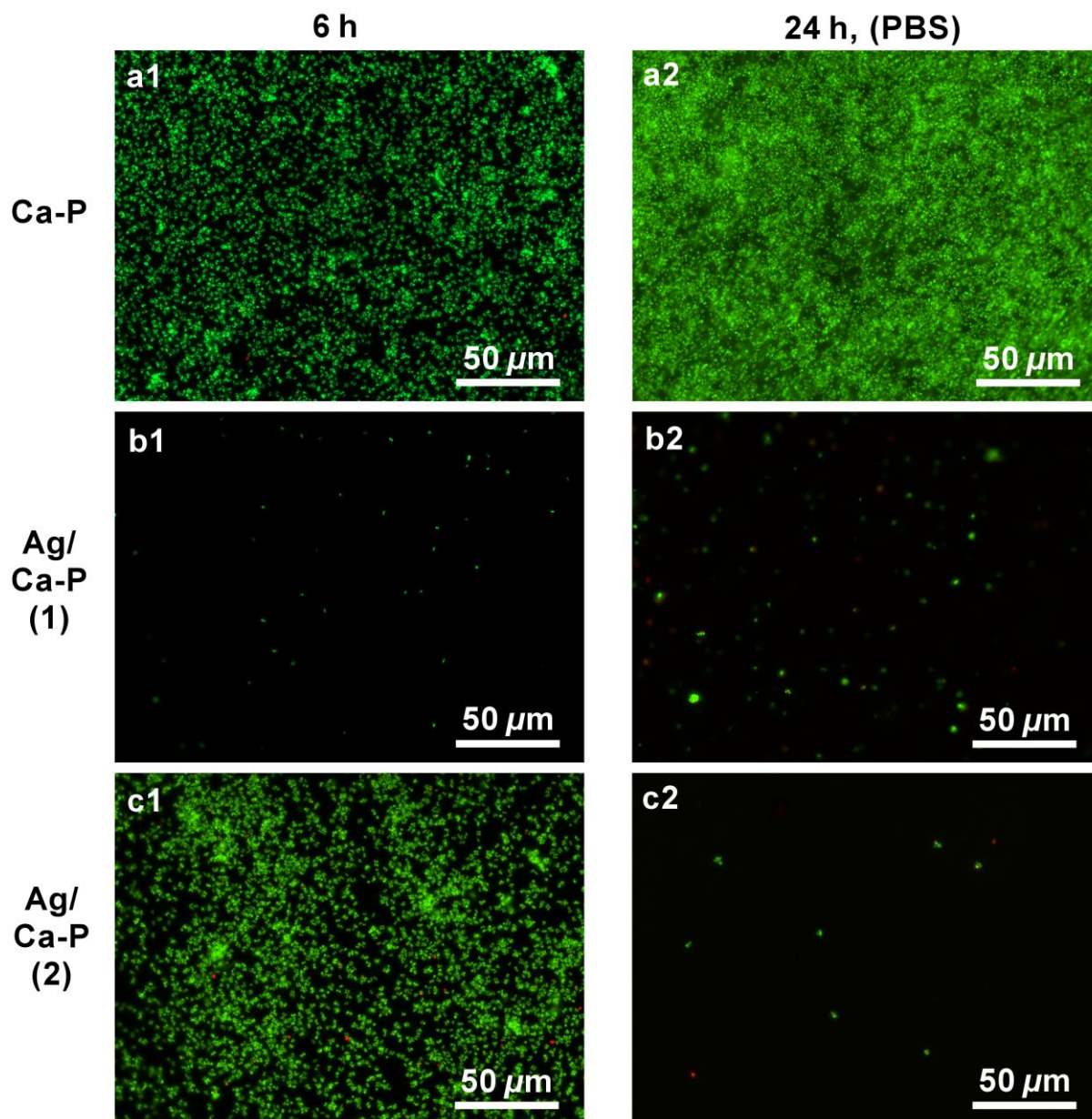


Fig. S13 Fluorescence microscopy images of *S. aureus* on non-coated Ti section of samples in (a) Ca-P coating as control, (b) Ag/Ca-P(1) coating and (c) Ag/Ca-P(2) coating after incubation for (a1 – c1) 6h and (a2 – c2) 24h on coatings pre-treated by PBS. Green and red indicate live and dead bacteria, respectively.

**EDS analysis of the Ag/Ca-P(2) coating after pre-treatment:**

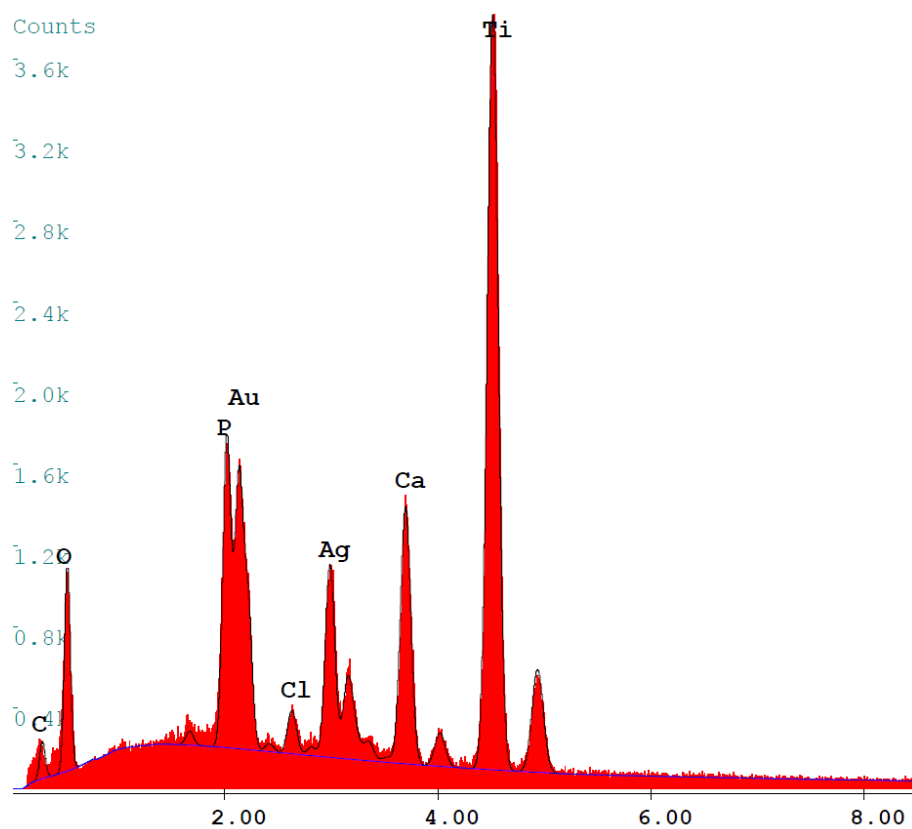


Fig. S14 Energy dispersive x-ray analysis spectra of Ag/Ca-P(2) coating after pre-treatment by PBS solution.