Supporting Information

Biopolymers-Calcium Phosphate Antibacterial Coating Reduces the Pathogenicity of Internalized Bacteria by Mesenchymal Stromal Cells

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Table SI-1: $dhkl_{exp}$ and $dhkl_{th}$ correspond to the plan spacing obtained from FFT pattern and from AMS data.[1]

Hybrid			Inorganic		
hkl	$dhkl_{exp}$ (nm)	$dhkl_{th}$ (nm)	hkl	$dhkl_{exp}$ (nm)	$dhkl_{th}$ (nm)
100	0.8155	0.2628	$0\bar{3}0$	0.2688	0.2718
200	0.4077	0.2718	$3\bar{3}0$	0.2628	0.2718
300	0.2718	0.2527	300	0.2683	0.2718

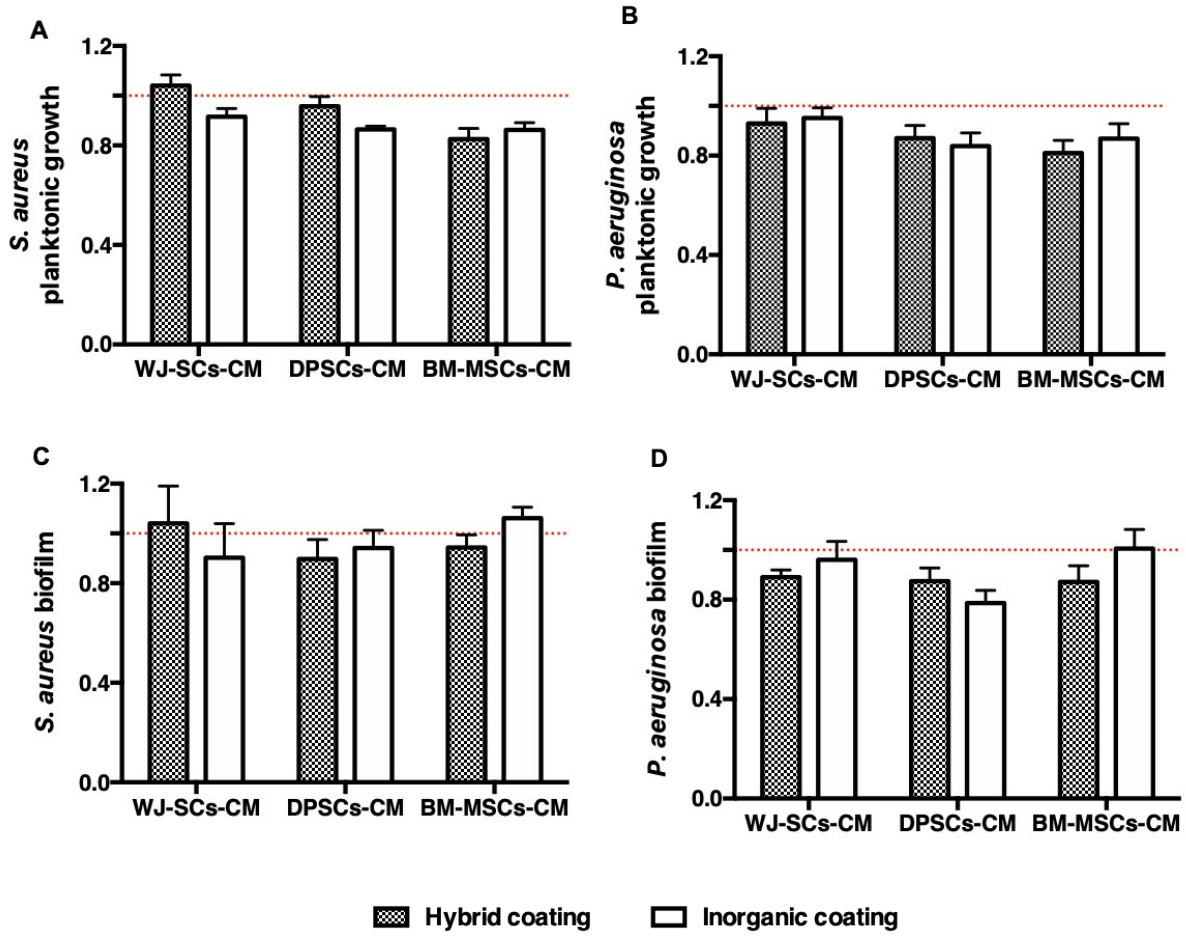

Figure SI-1: *Antibacterial and antibiofilm effects of conditioned media (CM) from stromal cells cultured on the Hybrid and Inorganic coatings.* (A) Planktonic growth of *S. aureus* and (B) planktonic growth of *P. aeruginosa* strains in the presence of CM. (C) Biofilm formation of *S. aureus* and (D) Biofilm formation of *P. aeruginosa* strains in the presence of CM. The results are normalized to CM of stromal cells cultured on uncoated substrate (red dashed lines) (n=4, Mann & Whitney test).

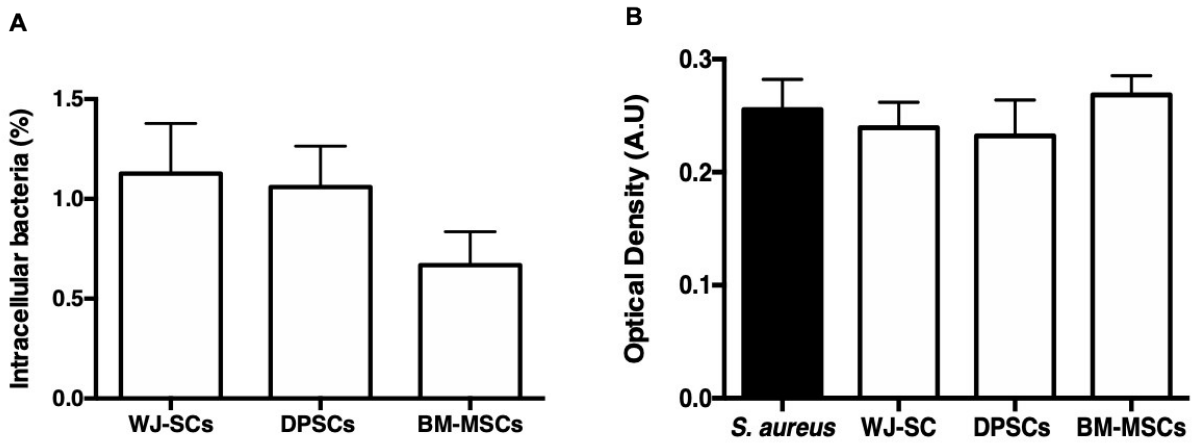

Figure SI-2: (A) Intracellular rate of *S. aureus* by stromal cells cultured on uncoated substrate. (B) Biofilm formation by internalized bacteria by stromal cells cultured on uncoated substrate *versus* non-internalized ones.

References:

(1) Hughes, J. M.; Cameron, M.; Crowley, K. D. Structural Variations in Natural F, OH, and Cl Apatites. *Am. Mineral.* **1989**, *74*, 870–876.