

Comparative Study of Crystallization, Mechanical Properties, and In Vitro Cytotoxicity of Nanocomposites at Low Filler Loadings of Hydroxyapatite for Bone-Tissue Engineering Based on Poly(L-lactic Acid)/Cyclo Olefin Copolymer

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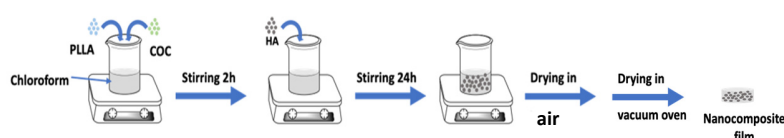


Figure S1. Preparation of PLLA/COC-nHA by physical blending method.

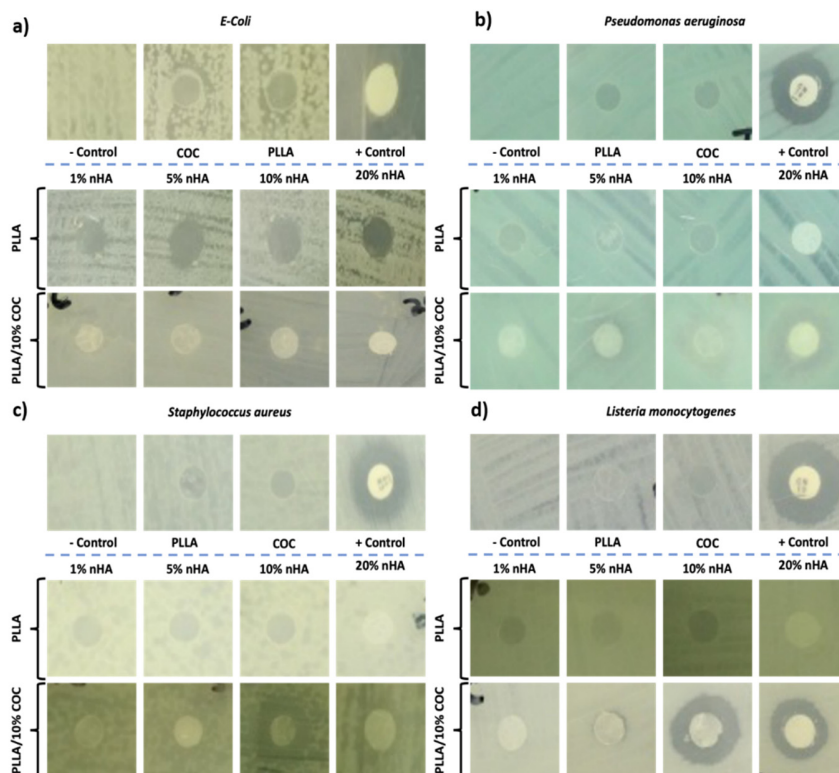


Figure S2. Antimicrobial activity of PLLA, COC, PLLA/nHA, PLLA/10% COC/nHA with (a) *E. Coli*, (b) *Pseudomonas aeruginosa*, (c) *Staphylococcus aureus* and (d) *Listeria monocytogenes*.

Table S1. PLLA/COC-nHA and PLLA-nHA nanocomposites composition prepared in 40 mL of Chloroform.

Polymer System	Sample Code	Weight of PLLA (g)	Weight of COC (g)	Weight of HA (g)
PLLA/COC-10	PC10	0.90	0.10	-
PLLA/COC-10-1wt%nHA	PC10-HA1	0.90	0.10	0.01
PLLA/COC-10-5wt%nHA	PC10-HA5	0.90	0.10	0.05
PLLA/COC-10-10wt%nHA	PC10-HA10	0.90	0.10	0.10
PLLA/COC-10-20wt%nHA	PC10-HA20	0.90	0.10	0.20
PLLA	PLLA	1.00	-	-
PLLA-1wt%nHA	P-HA1	0.99	-	0.01
PLLA-5wt%nHA	P-HA5	0.95	-	0.05
PLLA-10wt%nHA	P-HA10	0.90	-	0.10
PLLA-20wt%nHA	P-HA20	0.80	-	0.20