

Appendix: Supplementary information

Vessel subtype beneficial for osteogenesis enhanced by strontium-doped sodium titanate nanorods through modulating macrophage polarization

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Table S1
Primers used for real-time PCR.

Gene	Forward primer sequence (5'-3')	Reverse primer sequence (5'-3')
iNOS	CAAGCTGAACTTGAGCGAGGA	TTTACTCAGTGCCAGAAGCTGGA
Arg-1	AGCTCTGGGAATCTGCATGG	ATGTACACGATGTCTTTGGCAGATA
IL-10	GCCAGAGCCACATGCTCCTA	GATAAGGCTTGGCAACCCAAAGTA A
TNF- α	GCCAGGAGGGAGAACAGAAACTC	GGCCAGTGAGTGAAAGGGACA
VEGF	ACATTGGCTCACTTCCAGAAACAC	TGGTTGGAACCGGCATCTTTA
PDGF-BB	GACTTGAACATGACCCGAGCAC	CGTCTTGCACTCGGCGATTA
GAPDH	TGTGTCCGTCGTGGATCTGA	TTGCTGTTGAAGTCGCAGGAG

iNOS, inducible nitro oxide synthase; Arg-1, arginase-1; TNF- α , tumor necrosis factor α ; VEGF, vascular endothelial growth factor; PDGF-BB, platelet-derived growth factor-BB; GAPDH, glyceraldehyde-3-phosphate dehydrogenase.

Table S2

Elemental compositions of nanorods scratched from ST, STSr2, STSr4 and STSr7 coatings as detected by EDX under the STEM model of TEM.

Coatings	Elemental composition (At. %)				Stoichiometric formula
	Ti	O	Na	Sr	
ST	16.8±0.8	50.0±1.0	33.2±0.4	—	Na ₂ TiO ₃
STSr2	16.8±0.9	50.1±0.9	25.5±0.3	7.6±0.3	Na _{1.54} Sr _{0.23} TiO ₃
STSr4	16.7±0.7	50.2±0.7	17.9±0.2	15.2±0.3	Na _{1.08} Sr _{0.46} TiO ₃
STSr7	16.6±0.8	50.3±1.0	8.3±0.1	24.8±0.4	Na _{0.50} Sr _{0.75} TiO ₃

Figure. S1 Concentration of Sr ions in medium after being soaked for 3 days

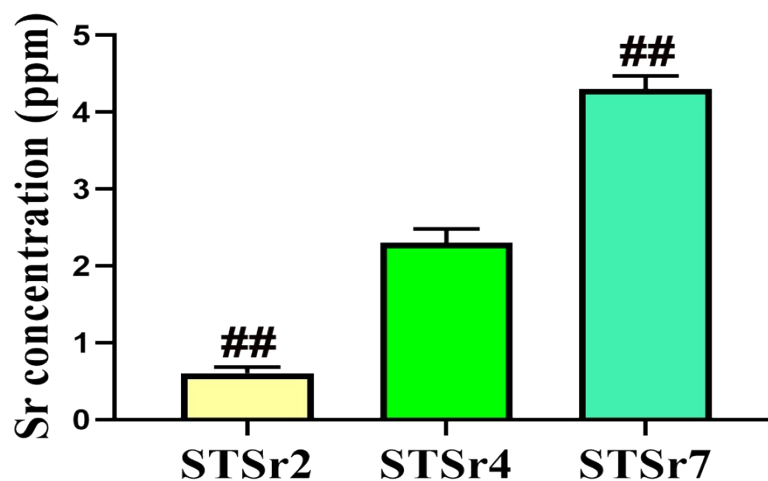


Fig. S1 Concentration of Sr ion in medium. ##p<0.01 compared to STSr4.