

Functionalized mesoporous bioactive glass scaffolds for enhanced bone tissue regeneration

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Supplementary Information

Gene	Direction	Primer sequence (5'-3')
Runx2	Forward	ATCCAGCCACCTTCACTTACACC
	Reverse	GGGACCATTGGGAAGTATAGG
ALP	Forward	GTCCCACAAGAGCCCACAAT
	Reverse	CAACGGCAGAGCCAGGAAT
BSP	Forward	TGGATGAACCAAGCGTGA
	Reverse	TCGCCTGACTGTCGATAGCA
OCN	Forward	CAGTAAGGTGGTGAATAGACTCCG
	Reverse	GGTGCCATAGATGCGCTTG
GAPDH	Forward	TTCGACAGTCAGCCGCATCTT
	Reverse	ATCCGTTGACTCCGACCTTCA

Table S1 Nucleotide sequences for real-time RT-PCR primers

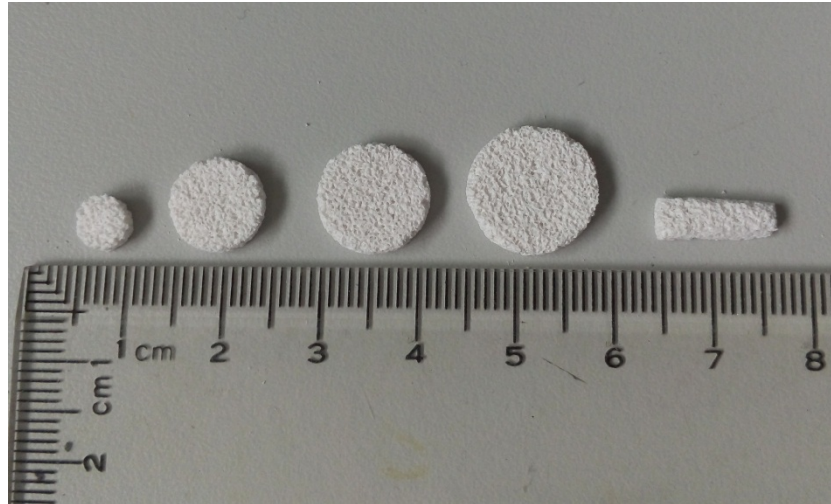


Figure S1. Photograph of MBGS with different sizes or shapes

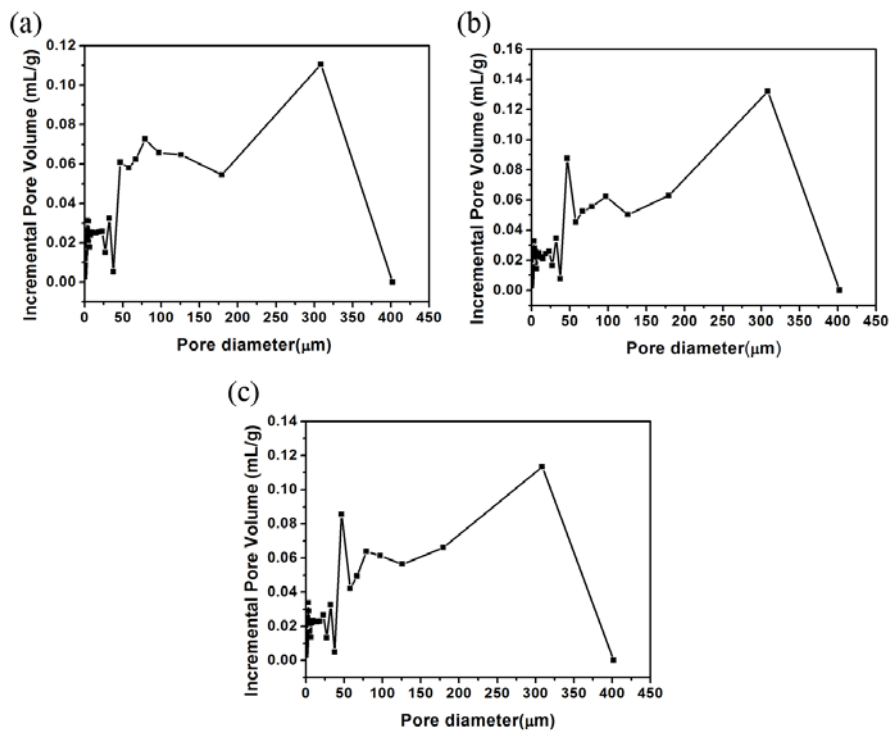


Figure S2. Mean macroporous diameter of (a) MBGS, (B) N-MBGS and (c) C-MBGS measured by mercury intrusion porosimetry(MIP) method

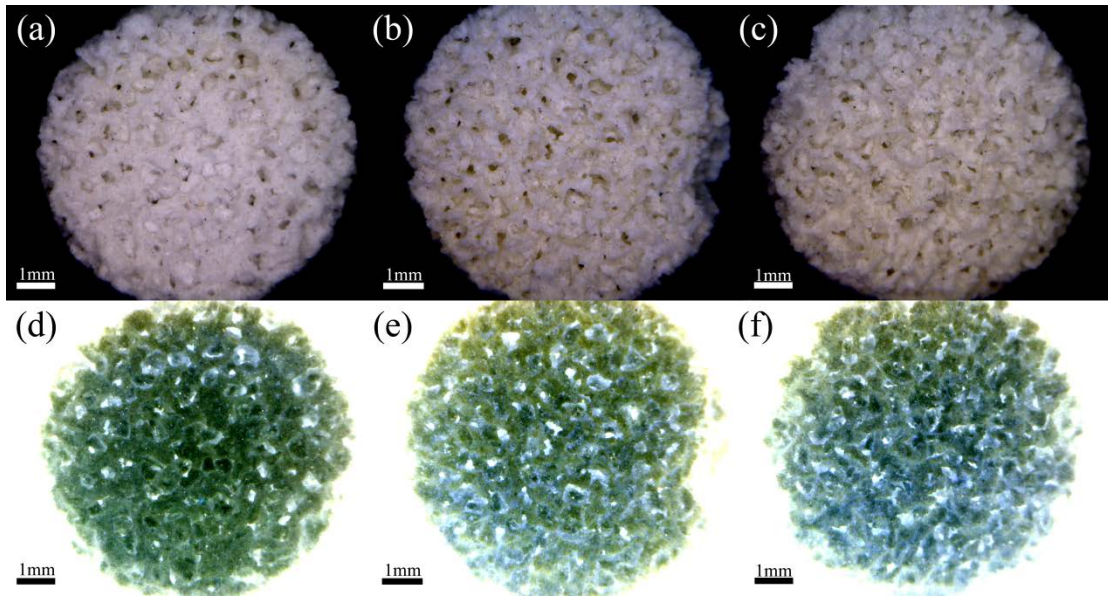


Figure S3. Digital microscopic photograph of (a) MBGS, (b) N-MBGS and (c) C-MBGS; Reverse color photographs of (d)MBGS, (e) N-MBGS and (f) C-MBGS.

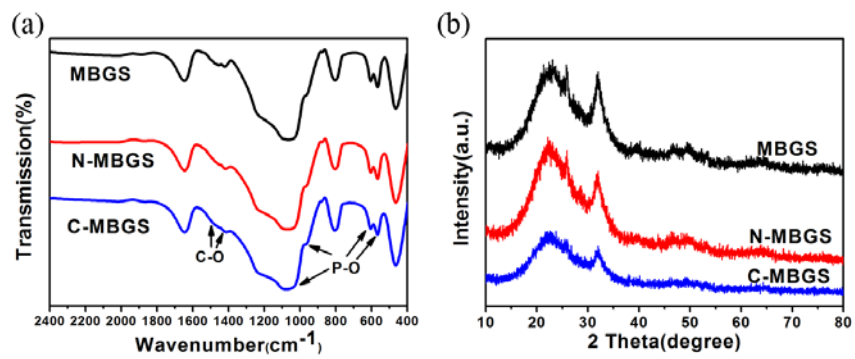


Figure S4. (a) FT-IR spectra and (b) Wide-angle XRD patterns of MBGS, N-MBGS and C-MBGS after soaking in simulated body fluids for 24h

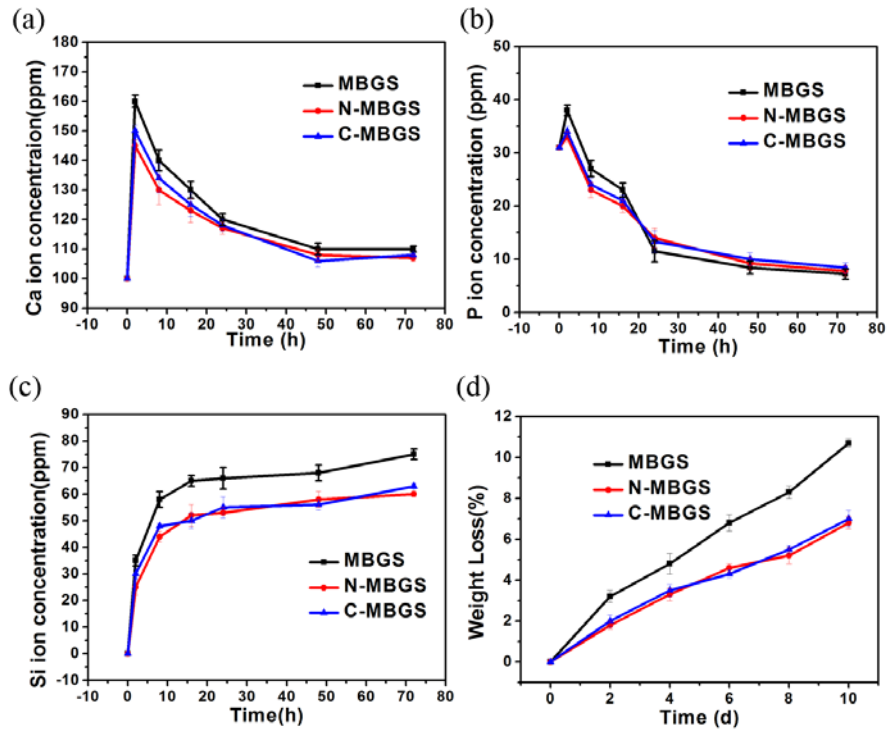


Figure S5. The change of (a) Ca, (b) P and (c) Si ions in SBF after soaking MBGS, N-MBGS and C-MBGS for different times. (d) Weight loss of scaffolds in PBS (pH=7.4).