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Supporting Information

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Monodispersed Bioactive Glass Nanoclusters with Ultralarge Pores and Intrinsic Exceptionally High miRNA Loading for Efficiently Enhancing Bone Regeneration

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**Monodispersed bioactive glass nanoclusters with ultra-large pores and intrinsic exceptionally high miRNA loading for efficiently enhancing bone regeneration**

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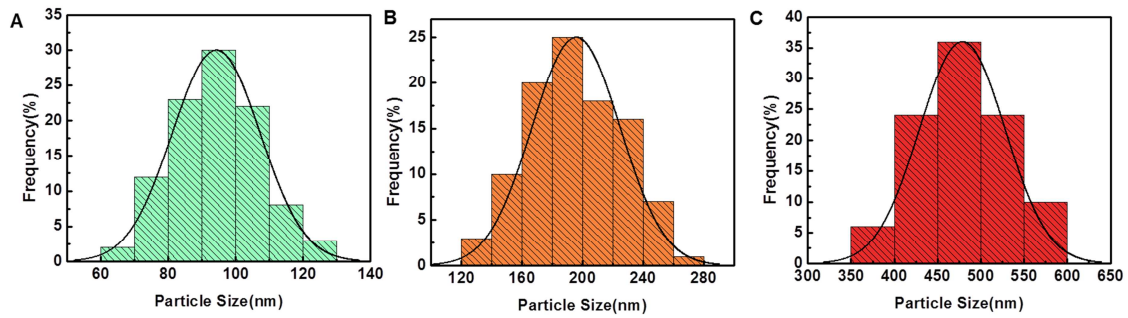
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**Table S1. Gene-specific primers for qRT-PCR analysis.**

Gene	Forward primer(5'-3')	Reverse primer(5'-3')
<i>Runx2</i>	TCTTCCCAAAGCCAGAGCG	TGCCATTCGAGGTGGTTCG
<i>Opn</i>	ATGAGGCTGCAGTTCTCCTGG	TATAGGATCTGGGTGCAGGCT
<i>Alp</i>	CAGTAAGGTGGTGAATAGACT	GGTGCCATAGATGCGCTTG



**Figure S1. Size distribution of 10% BGNC(A), 20% BGNC(B) and 30% BGNC(C) based on TEM images.**

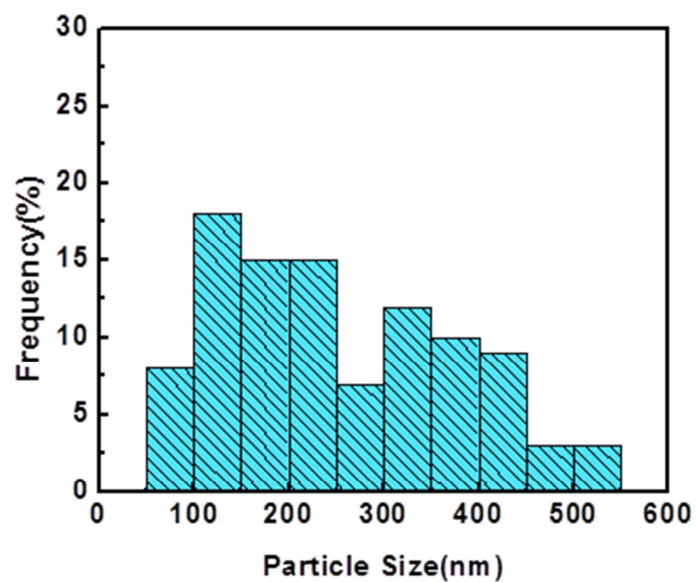


Figure S2. Size distribution of 6% BGNC.

Table S2. Surface area, pore volume and pore size of of BGNC and BGN

Samples	$S_{\text{BET}}$ ( $\text{m}^2 \text{g}^{-1}$ )	$D_p$ (nm)	$V_p$ ( $\text{m}^3 \text{g}^{-1}$ )
BGNC	213.611	20.056	1.138
BGN	236.620	3.468	0.342

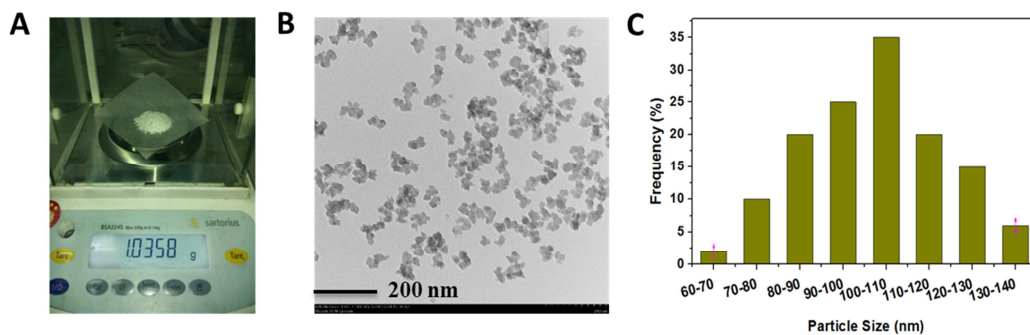


Figure S3. Large-scale fabrication of BGNCs. (A) Gram-scale synthesis; (B) TEM image and (C) Particle size distribution.

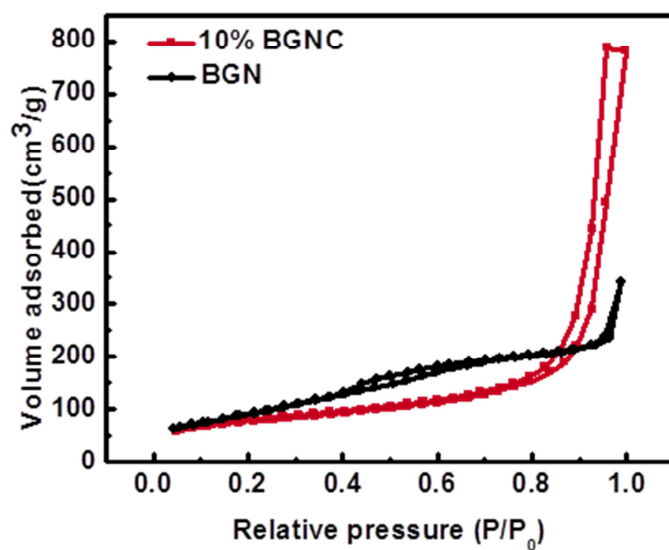


Figure S4. N<sub>2</sub> adsorption-desorption isotherms BGNC and BGN.