



Supplementary Materials

Supermagnetic Sugarcane Bagasse Hydrochar for Enhanced Osteoconduction in Human Adipose Tissue-Derived Mesenchymal Stem Cells

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Table S1. Element, binding energies and atomic concentrations (%) from XPS analysis of SCBH@Fe₃O₄.

Element Name	Binding Energy (eV)	Atomic% Concentration
C 1s	284.6	33.81
Fe 2p	711.14	13.86
O 1s	532.18	50.80

Table S2. The detailed thermal characteristics of SCB-H and SCB-H@Fe₃O₄.

Material Studied	TGA		
	Stages of Thermal Degradation (°C)	Weight Loss (%) in the Stage	Amount Loss in (mg) in the Stage
SCB-H	30–140	17.43	0.832
	140–353	19.41	0.927
	353–500	13.04	0.623
	500–800	13.17	0.622
SCB-H@Fe ₃ O ₄	30–187	8.524	0.750
	187–302	5.921	0.521
	302–567	12.15	1.070
	567–654	5.77	0.508
	654–800	14.14	1.25



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