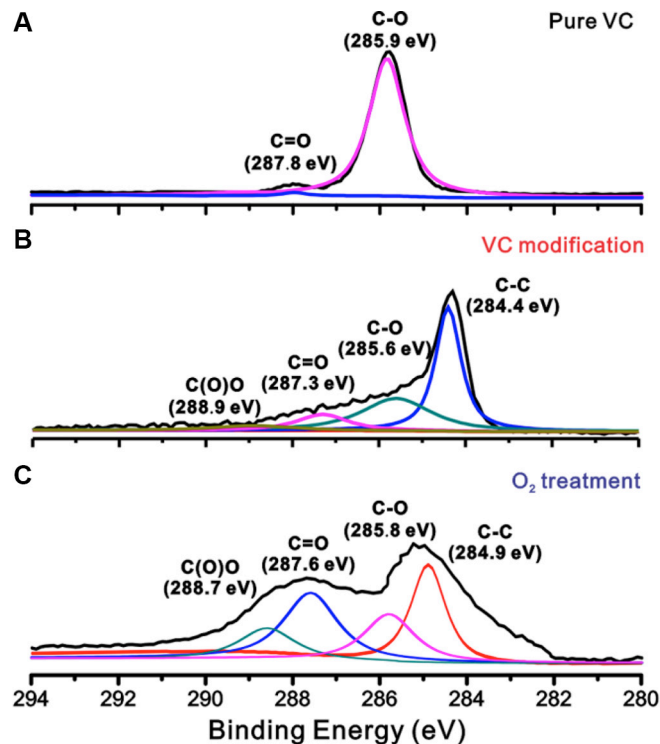


New strategy to rescue the inhibition of osteogenesis of human bone marrow-derived mesenchymal stem cells under oxidative stress: combination of vitamin C and graphene foams

Supplementary Materials



Supplementary Figure S1: High-resolution C (1s) XPS of Pure VC, VC modified GF and O₂ plasma-treated GF. The X-ray photoelectron spectroscopy (XPS) (Axis Ultra DLD, Kratos) was measured by utilizing an Al K α X-ray source operated at 40 eV.

Supplementary Table S1: Primers for RT-PCR in this study

genes	forward	reverse
<i>Runx2</i>	5'-TCTTAGAACAATCTGCCCTTT	5'-TGCTTTGGTCTTGAAATCACA
<i>Osx</i>	5'-CCTCCTCAGCTCACCTTCTC	5'-TTGGGAGCCCAAATAGAAA
<i>Sox-2</i>	5'-GCCTGGGCGCCGAGTGGA	5'-GGGCGAGCCGTTTCATGTAGGTCTG
<i>oct-4</i>	5'-AGGTGTTTCAGCCAAACGACC	5'-TGATCGTTTGCCTTCTGTC
<i>nanog</i>	5'-ATCCAGCTTGTCCTCCAAAG	5'-ATTTTCATTCGCTGGTTCTGG
β -actin	5'-CAATGTGGCCGAGGACTTTG	5'-CATTCTCCTTAGAGAGAAGTGG