**Supplementary Information:**

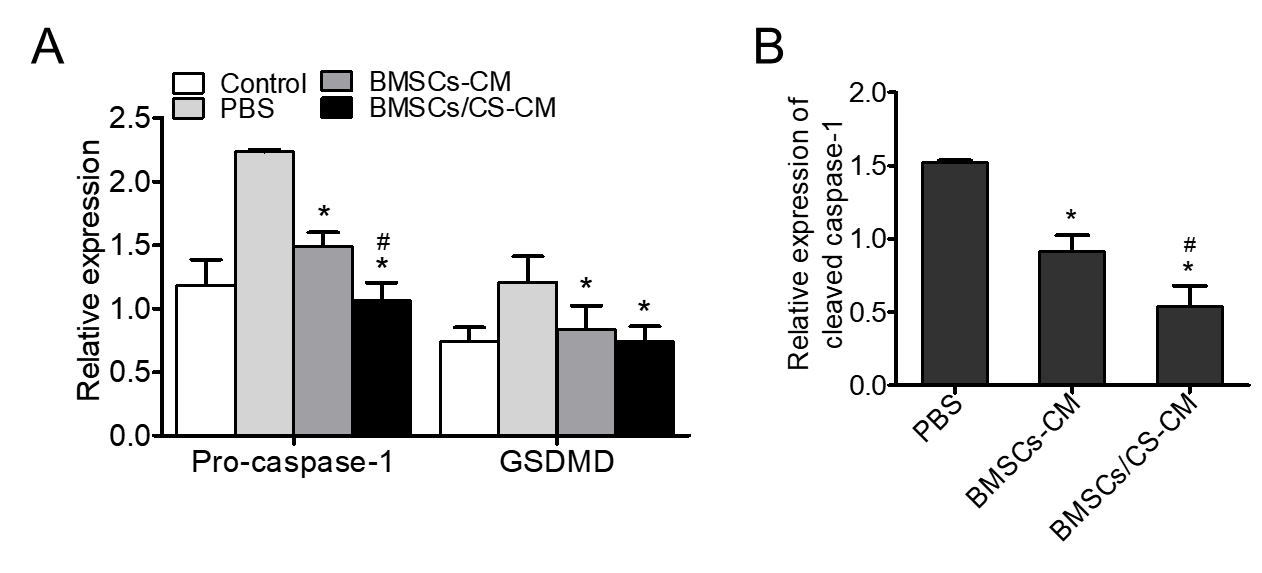
**Chitosan Hydrogel Enhances the Therapeutic Efficacy of BMSCs for Myocardial Infarction by Alleviating Vascular Endothelial Cell Pyroptosis**

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**Supplemental Table 1**: Primers used for real-time PCR

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | Gene | Forward primer | Reverse primer | | mEGF | TTGACAAGTGGCAGGAGGTC | ATCCCTACGTCCGTCCAGAA | | mPGF | ACTTGGGAACACAAGAAGCCT | CTCTCCAGAGCCGAATGTCC | | mHGF | TTCTTTCAGCCCGGCATCTC | CAAGAACTTGTGCCGGTGTG | | mIGF-1 | GCATACCTGCCTGGGTGTC | TTTGTCGATAGGGACGGGGA | | mTNF-α | ACAGAAAGCATGATCCGCG | GCCCCCCATCTTTTGGG | | mIL-6 | GAGGATACCACTCCCAACAGACC | AAGTGCATCATCGTTGTTCATACA | | mIL-18 | AGCAGTGGTTTTCAGCTGGG | GGCAGGAGTCCAGAAAGCAT | | mCaspase-11 | TGCAGAGCTATTACTCGCGG | GAGGCTTGGACGTGACTTGA | | mCaspase-1 | GAAACGCCATGGCTGACAAG | ACTTGAGGGTCCCAGTCAGT | | mGAPDH | CCCTTAAGAGGGATGCTGCC | ACTGTGCCGTTGAATTTGCC | | hIL-1β | CAACCAACAAGTGATATTCTCCATG | GATCCACACTCTCCAGCTGCA | | hIL-18 | AAGATGGCTGCTGAACCAGT | GAGGCCGATTTCCTTGGTCA | | hCaspase-1 | ATGGCCGACAAGGTCCTC | TTAATGTCCTGGGAAGAGGTA | | hNLPR3 | GCTGGCATCTGGGGAAACCT | CTTAGGCTTCGGTCCACACA | | hGSDMD | CTCGCCGACTTCCGTAAACT | TCCAGCGATCCTGGGTTCTA | | hICAM-1 | TCTTCCTCGGCCTTCCCATA | AGGTACCATGGCCCCAAATG | | hGAPDH | AATGGGCAGCCGTTAGGAAA | GCGCCCAATACGACCAAATC | |

**Supplemental Figure:**



**Supplemental Figure 1.** (A) Quantitative data of the expression of Pro-caspase-1 and GSDMD. (B) Quantitative data of the expression of Cleaved-caspase-1. Data are expressed as mean ± SEM. \*P < 0.05 versus PBS; #P < 0.05 versus BMSCs-CM. All experiments were performed in triplicate. BMSCs-CM, BMSCs conditioned medium; BMSCs/CS-CM, conditioned medium of co-culture BMSCs with CS hydrogel.