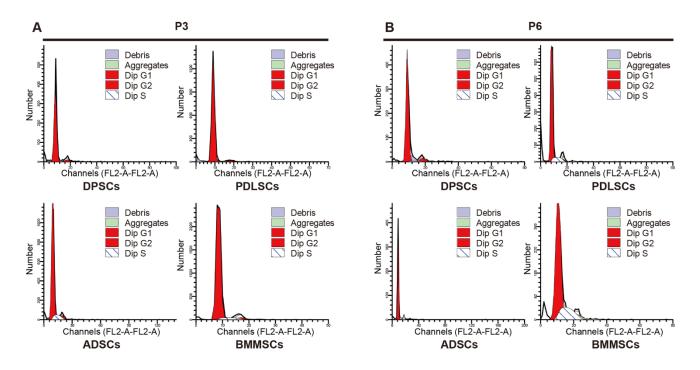
## Original Article

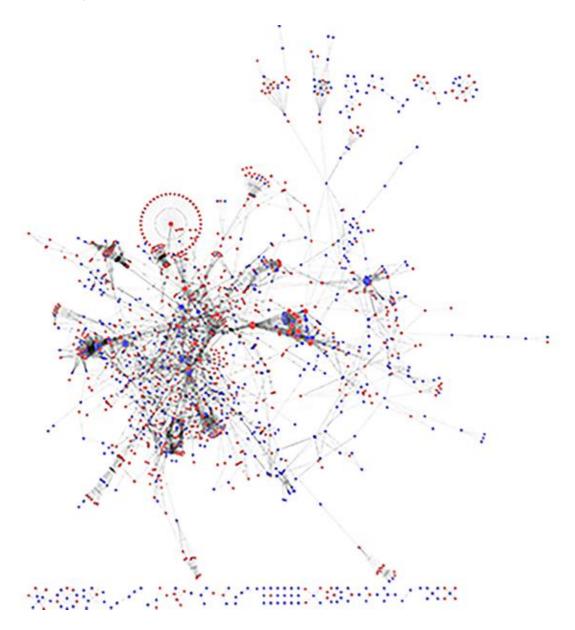
# Maintained Properties of Aged Dental Pulp Stem Cells for Superior Periodontal Tissue Regeneration

Linsha Ma<sup>1,#</sup>, Jingchao Hu<sup>1,#</sup>, Yu Cao<sup>1</sup>, Yilin Xie<sup>1</sup>, Hua Wang<sup>2</sup>, Zhipeng Fan<sup>1</sup>, Chunmei Zhang<sup>1</sup>, Jinsong Wang <sup>1,3</sup>, Chu-Tse Wu<sup>2,\*</sup>, Songlin Wang<sup>1,3,\*</sup>

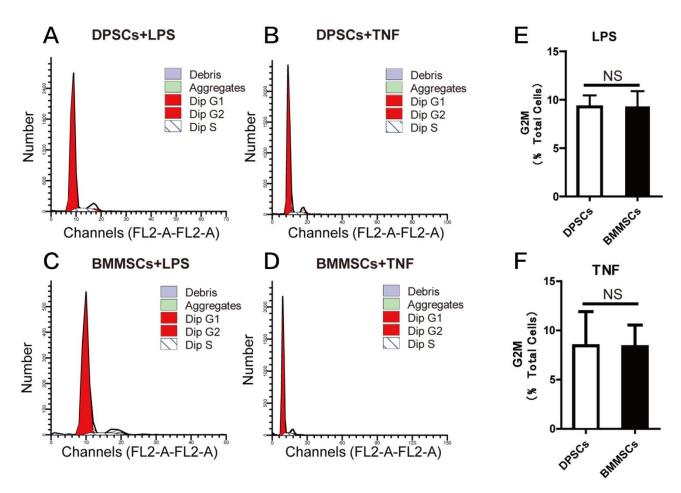
<sup>&</sup>lt;sup>1</sup>Molecular Laboratory for Gene Therapy & Tooth Regeneration, Beijing Key Laboratory of Tooth Regeneration and Function Reconstruction, Capital Medical University, School of Stomatology, Beijing, China <sup>2</sup>Department of Experimental Hematology, Beijing Institute of Radiation Medicine, Beijing, China <sup>3</sup>Department of Biochemistry and Molecular Biology, Capital Medical University School of Basic Medical Sciences, Beijing, China



**Supplementary Figure 1.** Cell cycle analysis of DPSCs, PDLSCs, ADSCs and BMMSCs. (**A**) Cell cycle analysis of DPSCs, PDLSCs, ADSCs and BMMSCs at passage three. (**B**) Cell cycle analysis of DPSCs, PDLSCs, ADSCs and BMMSCs at passage six.



**Supplementary Figure 2.** Signal-net analysis of the most important candidate genes contributing to the characteristics of DPSCs and BMM SCs. The red represents the upregulated genes and the blue represents the downregulated genes.



Supplementary Figure 3. Cell cycle analysis of DPSCs and BMMSCs under TNF $\alpha$  and LPS stimulation. (A) Cell cycle analysis of DPSCs under TNF $\alpha$  stimulation. (C) Cell cycle analysis of BMMSCs under LPS stimulation. (D) Cell cycle analysis of BMMSCs under TNF $\alpha$  stimulation. (E, F) Quantitative analyses of percentage of G2 phase in DPSCs and BMMSCs under TNF $\alpha$  and LPS stimulation. Values are means  $\pm$  SDs. Student's t-tests were used to determine statistical significance. Error bars represent SDs (n = 10). NS: no significance.