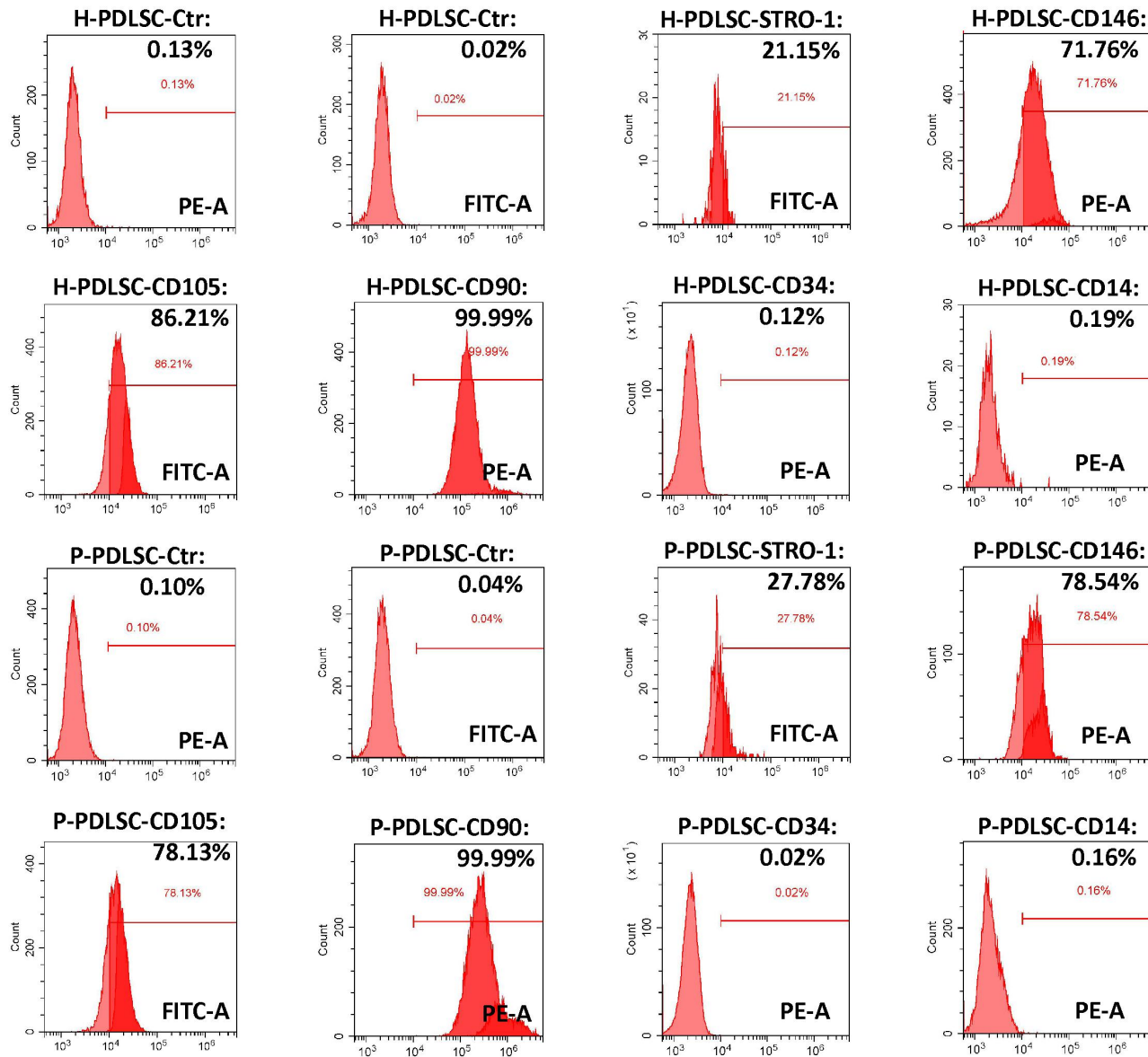


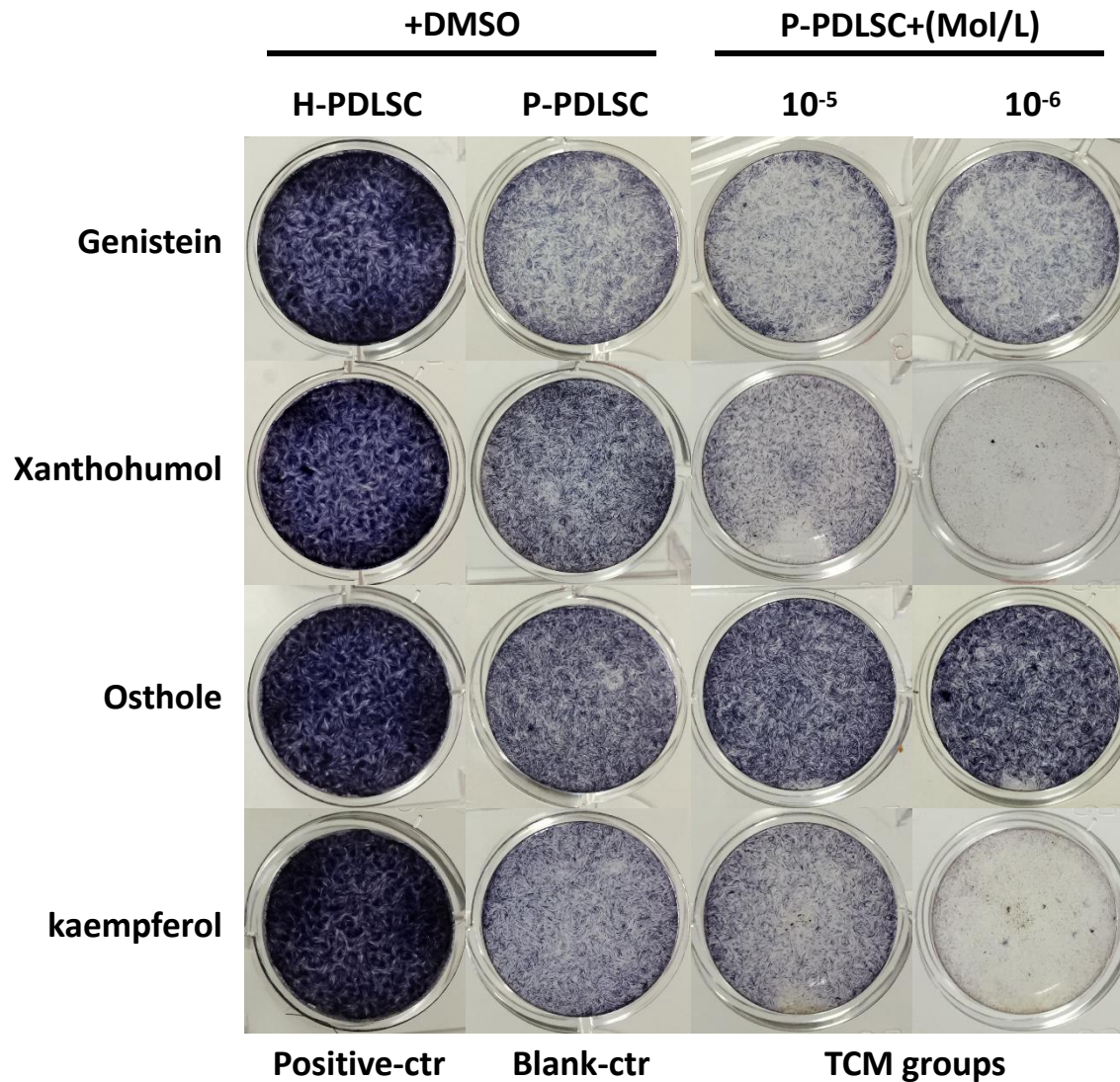
Osthole improves function of periodontitis periodontal ligament stem cells via epigenetic modification in cell sheets engineering

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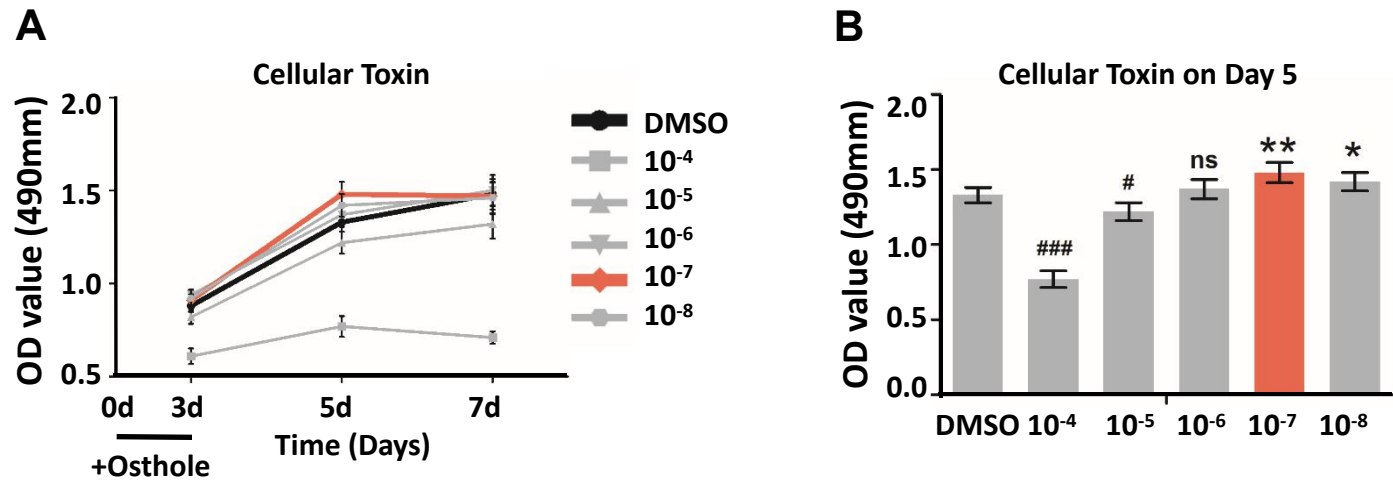
Supplementary figure 1

Flow cytometry analysis of MSC-markers. Analyses were performed via flow cytometry detecting PE or FITC conjugated monoclonal antibodies for human Stro-1, CD146, CD105, CD90, CD34, CD 14 or isotype matched control IgGs. Ctr: control.



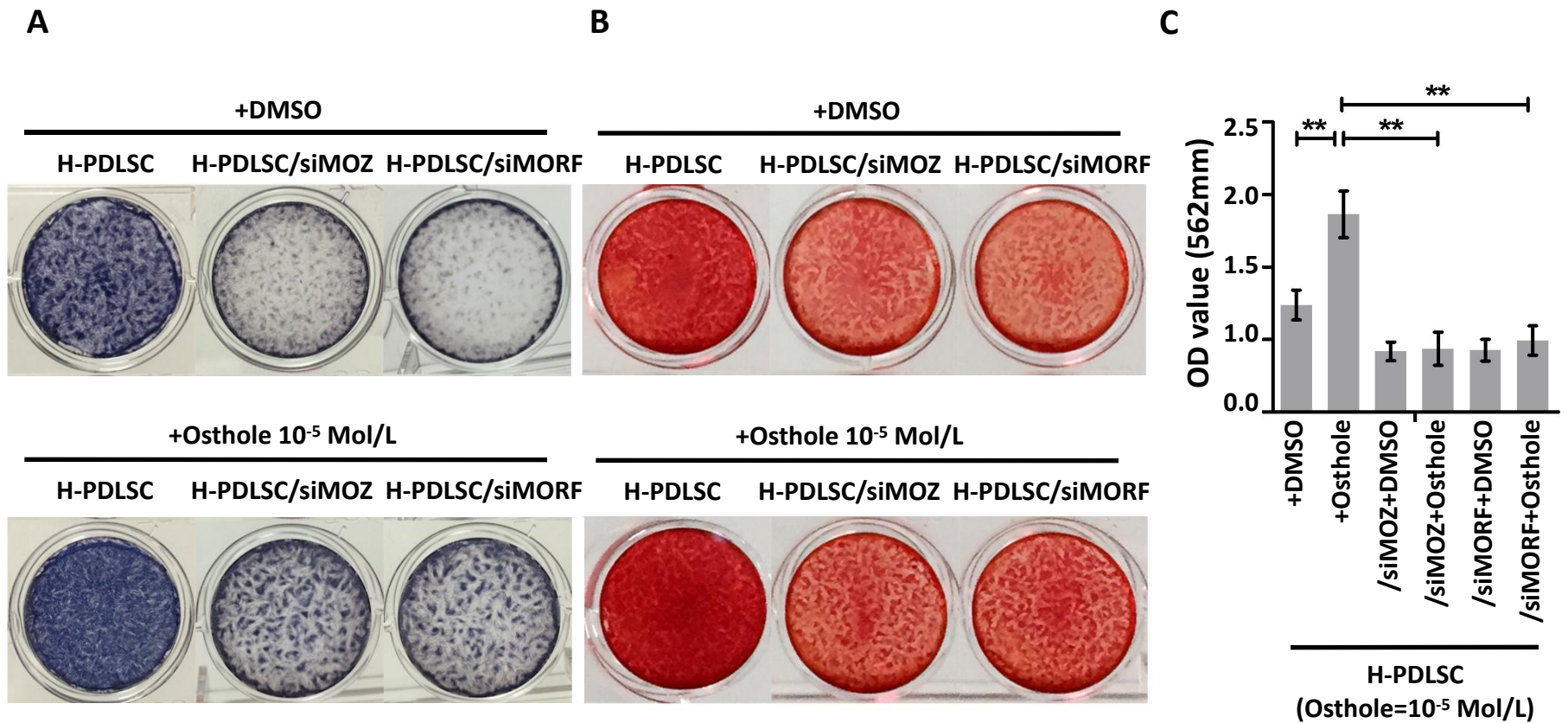
Supplementary figure 2

Osteogenic effect of TCMs on P-PDLSCs. First panel showed cells with Genistein treatment. Second panel showed cells with Xanthohumol treatment. Third panel showed cells with Osthole treatment. Fourth panel showed cells with Kaempferol treatment. Positive-ctr: positive control group, Blank-ctr: blank control.



Supplementary figure 3

Proliferation of P-PDLSCs after Osthole treatment. (A) MTT assay of P-PDLSCs with different concentrations of Osthole (0 Mol/L, 10^{-4} Mol/L, 10^{-5} Mol/L, 10^{-6} Mol/L, 10^{-7} Mol/L and 10^{-8} Mol/L) on day 3, 5 & 7. (B) MTT assay of P-PDLSCs with Osthole treatment of the same concentrations as above on day 5. */#: $P < 0.05$, **: $P < 0.01$, ###: $P < 0.001$, ns: $P \geq 0.05$, $n = 3$.



Supplementary figure 4

Osteogenic differentiation of H-PDLSCs/siMOZ or H-PDLSCs/siMORF with 10⁻⁵ Mol/L Osthole. (A) ALP staining in H-PDLSCs with Osthole treatment after 7 days osteogenic induction. (B) ARS staining in H-PDLSCs with Osthole treatment after 21 days osteogenic induction. (C) Quantification for light absorbance at 562 nm. **: P < 0.01, n = 3.