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

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This Article contains errors in Figure 1 and Figure 2.

In Figure 1A, the ARS staining images in the lower row for H-PDLSC+DMSO and P-PDLSC+Osthole, 10^{-8} Mol/L are incorrect. Furthermore, in Figure 2A, the APS staining image for H-PDLSC+DMSO in P6 is incorrect. The correct Figure 1 and Figure 2 and accompanying legends appear below.

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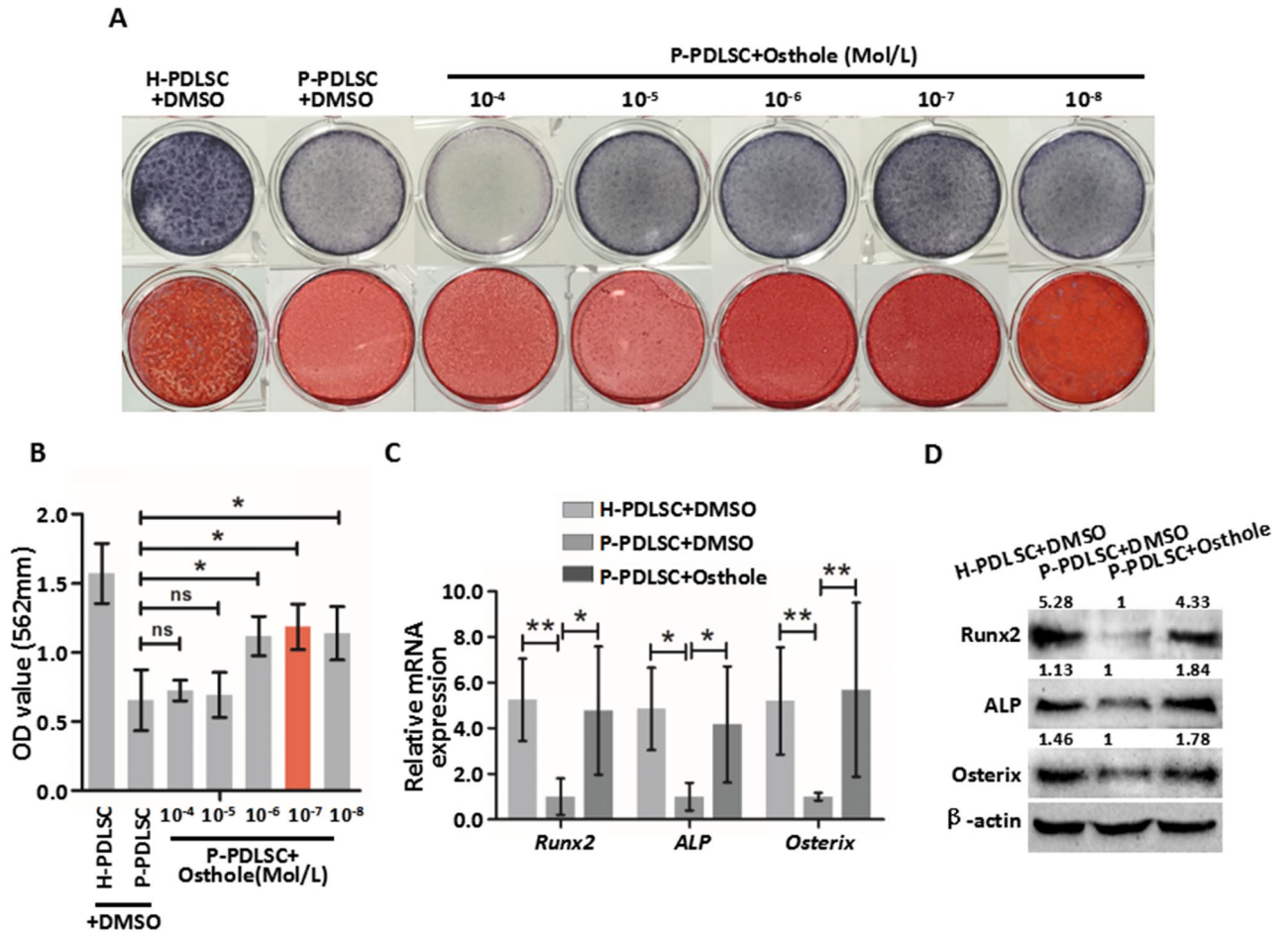


Figure 1. Osteole reverses defective osteogenic ability of P-PDLSCs. **(A)** ALP staining and ARS staining after 7 days (ALP staining) and 21 days (ARS staining) in H-PDLSCs and P-PDLSCs with different concentrations of Osteole (0 Mol/L, 10⁻⁴ Mol/L, 10⁻⁵ Mol/L, 10⁻⁶ Mol/L, 10⁻⁷ Mol/L and 10⁻⁸ Mol/L). **(B)** Quantification of ARS staining for light absorbance at 562 nm. **(C)** Gene expression of Runx2, ALP and Osterix in H-PDLSCs, P-PDLSCs and P-PDLSCs with 10⁻⁷ Mol/L Osteole as assayed by qRT-PCR. **(D)** Protein expression of Runx2, ALP and Osterix in H-PDLSCs, P-PDLSCs and P-PDLSCs with 10⁻⁷ Mol/L Osteole as assayed by Western blot. **P* < 0.05, ***P* < 0.01, ns: *P* ≥ 0.05, n = 3.

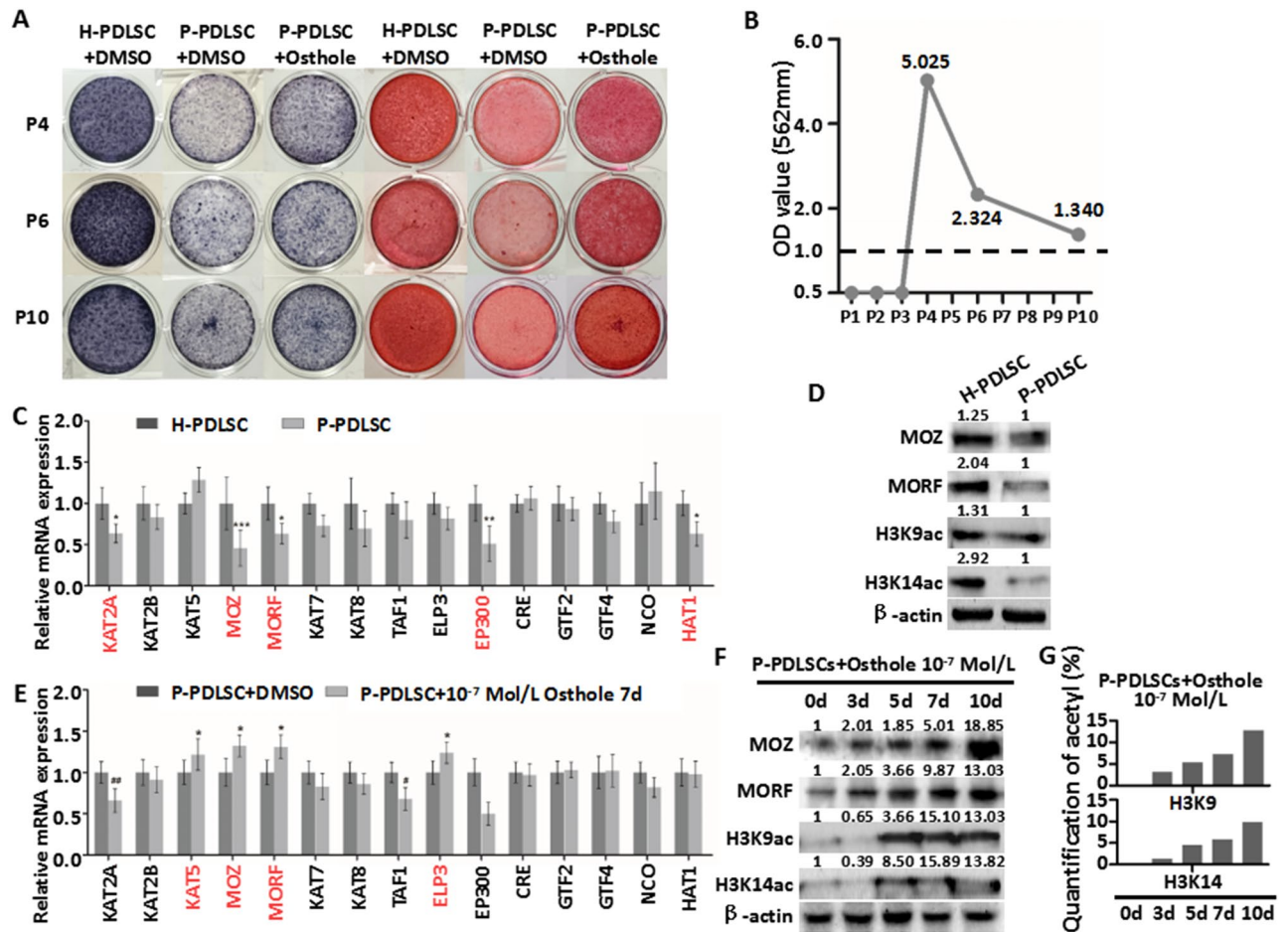


Figure 2. Osteole reverses defective osteogenesis of P-PDLSCs through histone acetylation. (A) ALP staining and ARS staining of H-PDLSCs, P-PDLSCs and P-PDLSCs with 10^{-7} Mol/L Osteoles in P4 (with stimulation), P6 (without stimulation) and P10 (without stimulation). (B) Quantification of ARS staining for light absorbance at 562 nm. (C) qRT-PCR showed gene expression of fifteen histone acetylases in H-PDLSCs and P-PDLSCs. (D) Protein expression of MOZ, MORF, H3K9ac and H3K14ac in H-PDLSCs and P-PDLSCs as assayed by western blot. (E) qRT-PCR showed gene expression of fifteen histone acetylases in P-PDLSCs and P-PDLSCs with 10^{-7} Mol/L Osteole measured by qRT-PCR. (F) Protein expression of MOZ, MORF, H3K9ac and H3K14ac in P-PDLSCs with 10^{-7} Mol/L Osteole treatment on day 0, 3, 5, 7, 10 as assayed by western blot. (G) Level of acetylation of H3K9 and H3K14 in P-PDLSCs with 10^{-7} Mol/L Osteole treatment on day 0, 3, 5, 7, 10 as assayed by EpiQuik Global Acetyl Histone Quantification Kit. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, no mark: $P \geq 0.05$, $n = 3$.



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