Supplemental information

IncRNA H19 facilitates the proliferation and differentiation of human dental pulp stem cells via EZH2-dependent LATS1 methylation Zhen Du, Xiaoming Shi, and Aizhong Guan

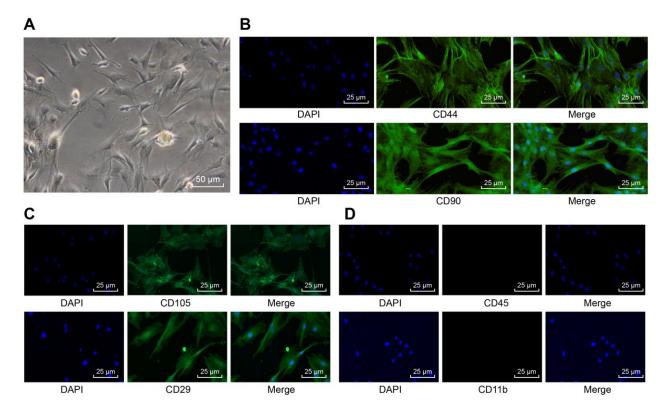


Figure S1 Successful isolation and culture of hDPSCs. A, morphology of hDPSCs observed under an inverted microscope (\times 200). B, expression of hDPSC surface markers (CD44 and CD90) detected by immunofluorescence (\times 400). C, expression of hDPSC surface markers (CD105 and CD29) detected by immunofluorescence (\times 400). D, expression of hDPSC surface markers (CD45 and CD11b) detected by immunofluorescence (\times 400).

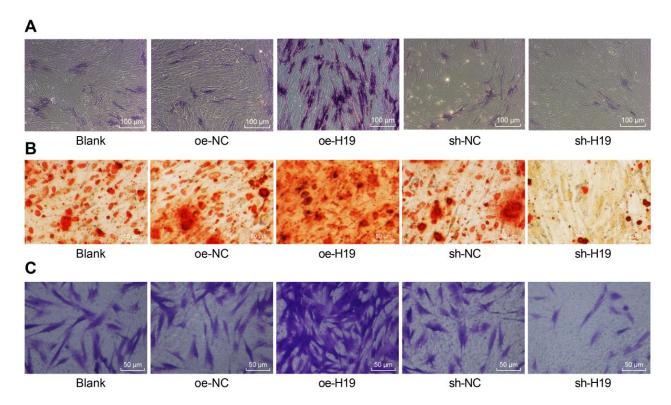


Figure S2 A, ALP staining detection (\times 100). B, the formation of mineralized nodules assessed by Alizarin red staining (\times 200). C, cell migration determined by Transwell assay (\times 200).

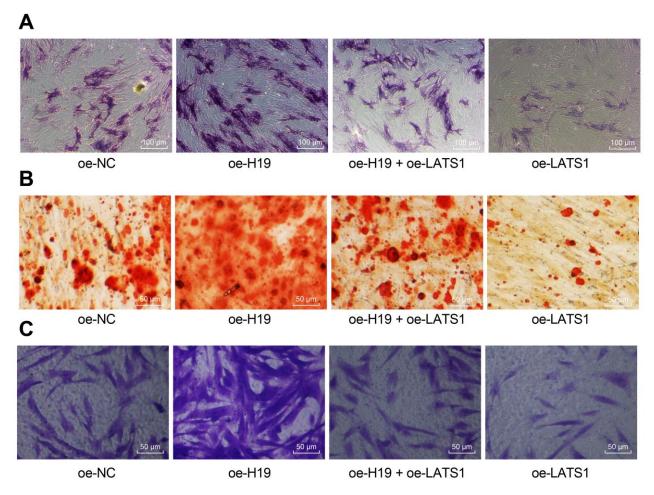


Figure S3 A, ALP staining detection (\times 100). B, the formation of mineralized nodules examined by Alizarin red staining (\times 200). C, migration of hDPSCs evaluated by Transwell assay (\times 200).

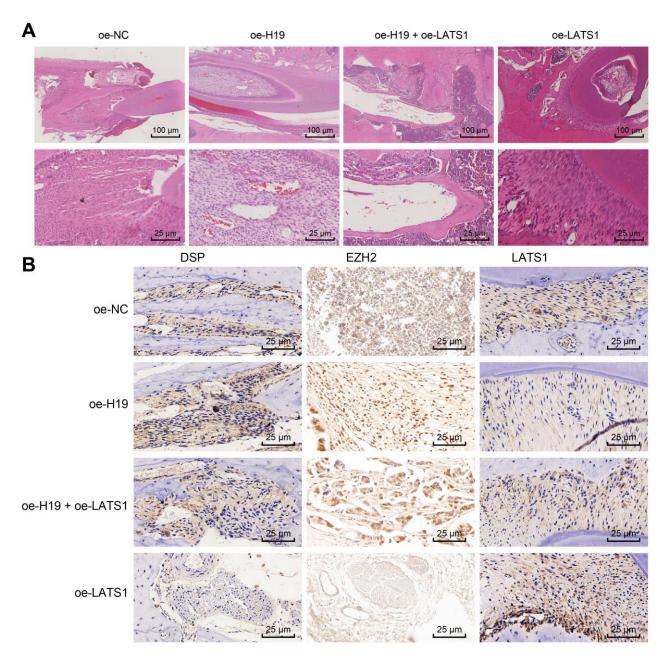


Figure S4 A, the formation of dentin and dental pulp-like cells assessed by HE staining (\times 100). B, the expressions of DSPP, EZH2 and LATS1 in dentin and dental pulp-like tissues evaluated by immunohistochemistry (\times 200).

 Table S1 Primer sequences for RT-qPCR

Gene	Primer sequence
H19	F: 5'-TTCAAAGCCTCCACGACTCT-3'
	R: 5'-GCTCACACTCACGCACACTC-3'
ALP	F: 5'-CCACGTCTTCACATTTGGTG-3'
	R: 5'-AGACTGCGCCTGGTAGTTGT-3'
DMP1	F: 5'-ACA GCAGCTCAGCAGAGA GT-3'
	R: 5'-TAATAGCCGTCTTGGCAGTC-3'
OCN	F: 5'-GGCAGCGAGGTAGTGAAGAG-3'
	R: 5'-CTGGAGAGCAGAACTGG-3'
DSPP	F: 5'-GTCGCTGTTGTCCAAGAAGA-3'
	R: 5'-ATCCTCATCTGCTCCATTCC-3'
LATS1	F: 5'-CCACCCTACCCAAAACATCTG-3'
	R: 5'-CGCTGCTGATGAGATTTGAGTAC-3'
GAPDH	F: 5'-ATGGAGAAGGCTGGGGCTC-3'
	R: 5'-AAGTTGTCATGGATGACCTTG-3'

Notes: RT-qPCR, reverse transcription quantitative polymerase chain reaction; F, forward; R, reverse; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; ALP, alkaline phosphatase; DMP1, dentin matrix protein 1; OCN, osteocalcin; DSPP, dentin sialophosphoprotein; LATS1, large tumour suppressor 1.