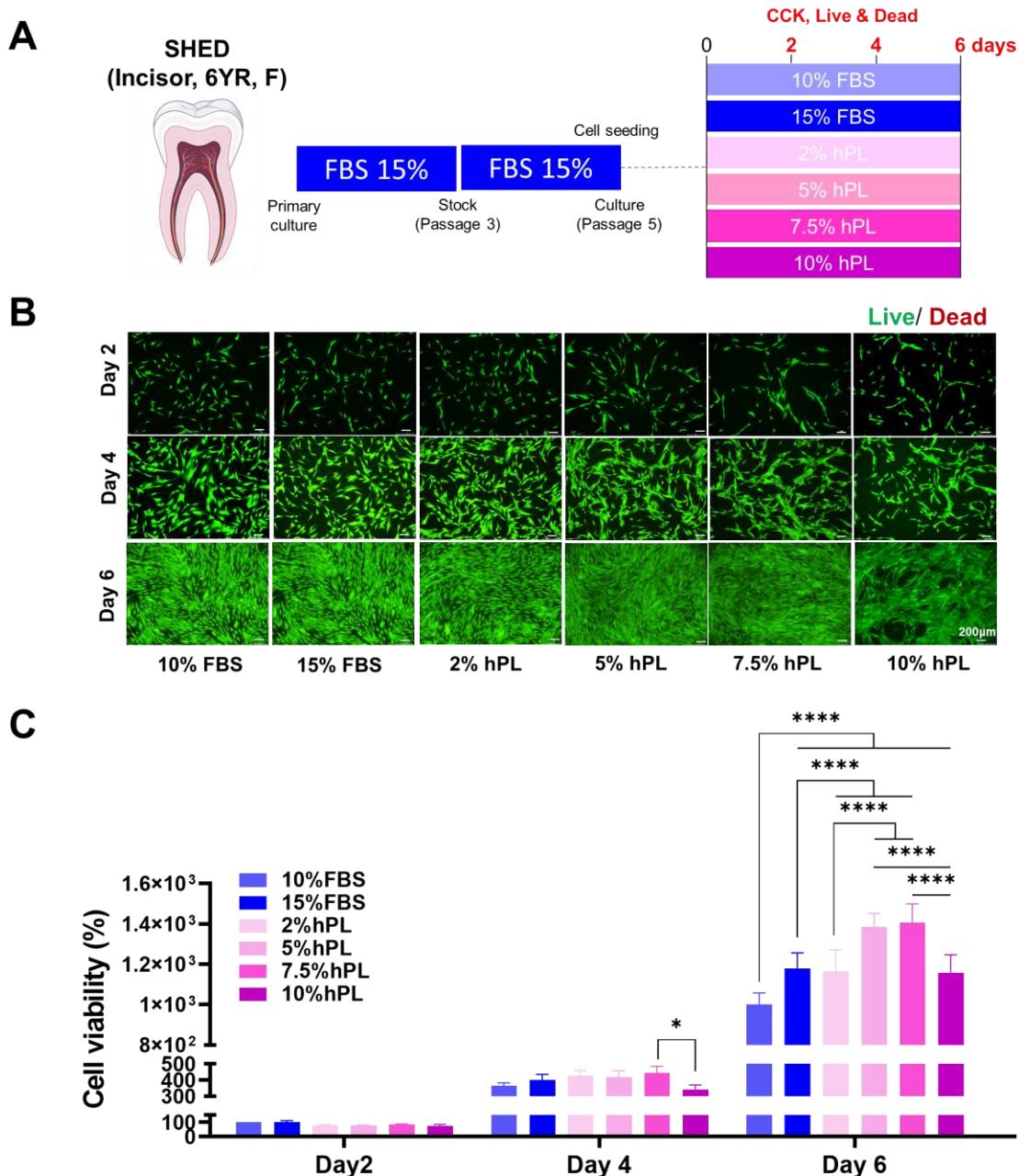


**Supplementary Figure and table**



**Figure S1.** Cell proliferation effect on SHED according to the concentration of hPL. A) Schematic diagram illustrating the experimental protocol. SHED cultured under 10% FBS-contained medium was seeded in 10/15% FBS or 2/5/7.5/10% hPL supplemented medium. CCK and Live and dead assay were performed after 2, 4, and 6 days. B) Representative images of Live & Dead assay and C) CCK results at days 2, 4, and 6. There was no difference in proliferation rate among groups at day 2, 4. However, a tendency for increased proliferation was observed at day 6 depending on the concentration of FBS or hPL. Particularly, the 2% hPL group exhibited a similar result to the 15% FBS group, and the hPL group demonstrated the highest level in the 5% and 7.5% hPL groups, with a subsequent decrease in the 10% group.

**Table S1.** Primer sequences used in the qRT-PCR

Name	Forward	Reverse
COL1A	5'-CGTGACCAAAAACCAAAAGTGC-3'	5'-GGGTGGAGAACAGAAA-3'
ALP	5'-ACACCTTGACTGTGGTTACT-3'	5'-CCTTGTAGCCAGGCCGTTA-3'
DMP1	5'-GGACGGCTCTGAGTCGA-3'	5'-TGGGTTTCCCTGCTGTTG-3'
DSPP	5'-AGAAGGACCTGGCCAAAAAT-3'	5'-TCTCCTCGGCTACTGCTGTT-3'
OCN	5'-AGACTCCGGCGCTACCTAACAAAT-3'	5'-CAGCTGTGCCGTCCATACT-3'
RUNX2	5'-GACCGACACAGCCATATAAA-3'	5'-TCCCTAACCTGAAACCAAAG-3'
PPAR- $\gamma$ 2	5'- AGCCTGCGAAAGCCTTTGGT-3'	5'-GGCTTCACATTAGCAAACCTGG -3'
FABP4	5'- ACGAGAGGATGATAAACTGGTGG-3'	5'-GCGAACTTCAGTCCAGGTCAAC -3'
LPL	5'-CTGCTGGCATTGCAGGAAGTCT-3'	5'-CATCAGGAGAAAGACGACTCGG-3'
Col-IIA	5'-GTGACAAAGGAGAGGGCTGGA-3'	5'-ACCTCTAGGCCAGAAGGAC-3'
SOX9	5'-ATCTGAAGAAGACTGCGAG-3'	5'-TCAGAAAGTCTCCAGAGCTTG-3'
ACAN	5'-CTGCTTCCGAGGCATTCAG-3'	5'-CTTGGGTACGATCCACTCC-3'
MASH-1	5'-CCAGTTGTACTTCAGCAC-3'	5'-TGCCACTTGAGTTGGAC-3'
NeuroD	5'-CCACGGATCAATCTTCAG-3'	5'-CATGATGTGAATGGCTATCG-3'
Nestin	5'-GCCCTGACCACTCCAGTTA-3'	5'-GGAGTCCTGGATTTCCCTCC-3'
GFAP	5'-GAGCACAAGGATGTGATGT-3'	5'-AGAGGCGGAGCAACTAT-3'
$\beta$ -tubulin	5'-GAAGCCAGCAGTGTCTAAA-3'	5'-GAGGACGAGGCCATAATAC-3'
GAPDH	5'-GAGCATCTCCCTCACAAATT-3'	5'-GGGTGCAGCGAACTTTAT-3'