

Table S1. Primer sequences used for quantitative polymerase chain reaction (qPCR).

Gene name	Primer sequences (5'→ 3')
Bone morphogenetic protein 1 (<i>BMP1</i>)	F: CAGTTTGACTTCTTTGAGACAGAGGGC R: TGTGAGTCCACTGCGCACCTCCACG
Colony Stimulating factor 1(<i>CSF1</i>)	F: ATGACAGACAGGTGGAAGTCCAG R: TCACACAACCTCAGTAGGTTTCAGG
Fibroblast growth factor 1 (<i>FGF1</i>)	F: ACCGAGAGGTTCAACCTGCC R: GCCATAGTGAGTCCGAGGACC
Fibroblast growth factor 11 (<i>FGF11</i>)	F: GGCATCGTCACCAAAGTGT R: GCAGTCCCTCAGCATTTCATG
Glial cell derived neurotrophic factor (<i>GDNF</i>)	F: CCCCAGCCATCCAGTCATTC R: ATCGCACTGCCAAGGTTCTC
Glucose-6-phosphate isomerase (<i>GPI</i>)	F: AGGCTGCTGCCACATAAGGT R: AGCGTCGTGAGAGGTCACCTG
Heparin binding epidermal growth factor-like growth factor (<i>HBEGF</i>)	F: ATCGTGGGGCTTCTCATGTTT R: TTAGTCATGCCCAACTTCACTTT
Insulin-like growth factor 1 (<i>IGF1</i>)	F: ATAGAGCCTGCGCAATGGAATAAAG R: AGAAATCCAGAGAGATGGGAGATG
Inhibin subunit beta A (<i>INHBA</i>)	F: ACACAACAACTTTTGCTGCC R: TCGTGTCACCACTGTCTTCTC
Notch ligand jagged-1 (<i>JAG1</i>)	F: TCGGGTCAGTTCGAGTTGGA R: CGTTCACGTTCTGCATGGAC
Midkine (<i>MDK</i>)	F: CGCGGTCGCCAAAAAGAAAG R: TACTTGCAGTCGGCTCCAAAC
Nerve growth factor (<i>NGF</i>)	F: ATACAGGCGGAACCACTC R: TGCTCCTGTGAGTCCTGTTG
Neurotrophin 3 (<i>NTF3</i>)	F: CAGAACATCACGGCGGAAAC R: ACAGACTCTCACTGTCACATACC
Neuregulin 1 (<i>NRG1</i>)	F: CCGCAGCATCACTTCACACAAAG R: AAGTGGATGGAACCACAGAAAGG
Platelet derived growth factor C (<i>PDGFC</i>)	F: CTCCTGGTTAAACGCTGTGG R: TATCCTCCTGTGCTCCCTCT
Secreted phosphoprotein 1 (<i>SPP1</i>)	F: TTCTGATTGGGACAGCCGTG R: TCTCATCATTGGCTTTCCGCT
Transforming growth factor beta 1 (<i>TGFB1</i>)	F: AGCGACTCGCCAGAGTGTTA R: GCAGTGTGTTATCCCTGCTGTCA
Vascular endothelial growth factor (<i>VEGF</i>)	F: CTTCTGAGTTGCCCAGGAGA R: GGATGGAGGAAGGTCAACCA
Glyceraldehyde 3-phosphate dehydrogenase (<i>GAPDH</i>)	F: AAATCAAGTGGGGCGATGC R: AGGGGGCAGAGATGATGACC

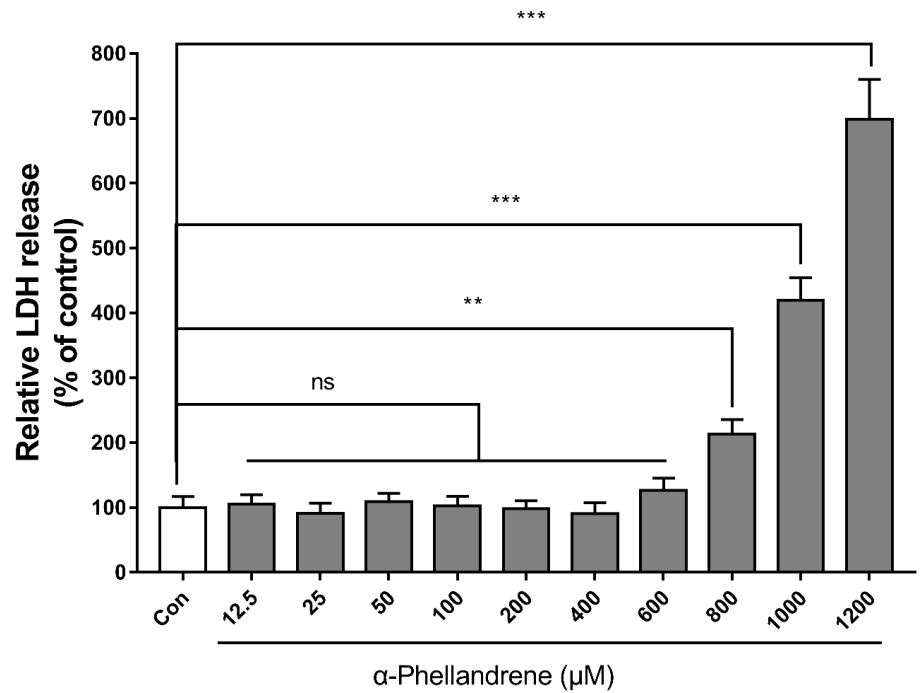


Figure S1. α -phellandrene up to 600 μ M does not induce cytotoxicity in dermal papilla cells (DPCs). DPCs were cultured for 72 h with vehicle (dimethyl sulfoxide; DMSO) as a control (Con), or various concentrations of α -phellandrene (12.5-1,200 μ M). The cell death in response to α -phellandrene treatment was analyzed by lactate dehydrogenase (LDH) assay. Results are shown as mean \pm standard error of the mean (SEM) of three independent experiments. Statistically significant differences are marked as ** $p < 0.01$ and *** $p < 0.001$ vs control (Con).