



**Supplementary Fig. 2.** Relative mRNA expression levels confirming growth factor gene expressions, such as *5α-reductase-1* (A), *VEGFα* (B), *FGF7* (C), and *FGF10* (D), in the HFDPs via qRT-PCR. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.005$ , independent samples t-test. LED, light-emitting diode; OLED, organic light-emitting diode; HFDPs, hair follicle dermal papilla cells; qRT-PCR, quantitative reverse transcription polymerase chain reaction.