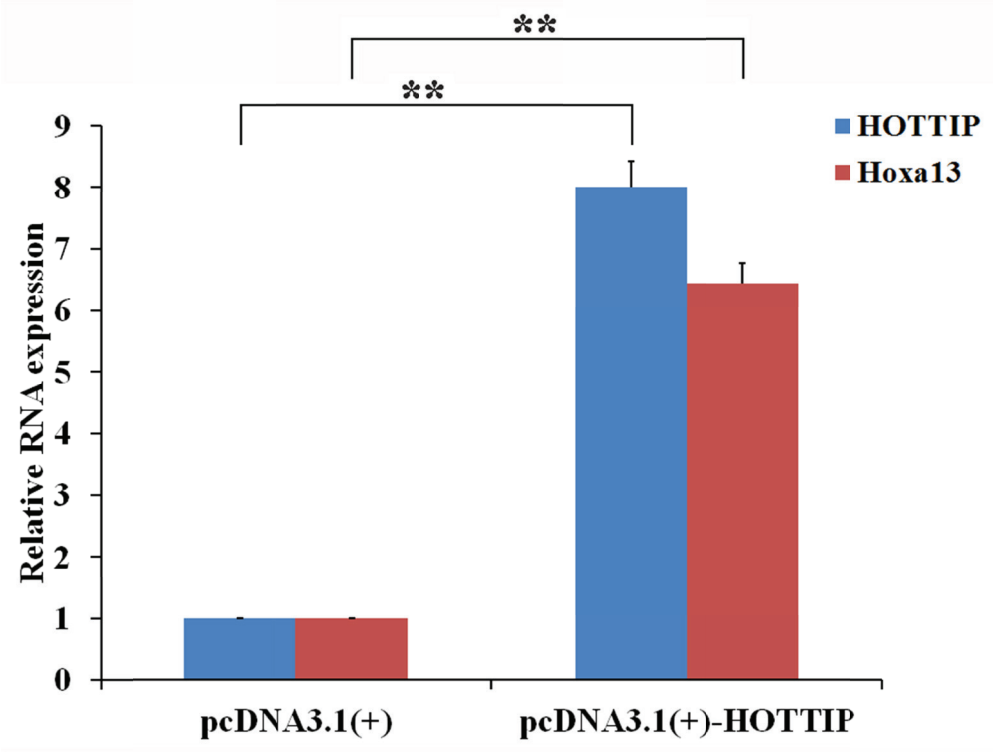
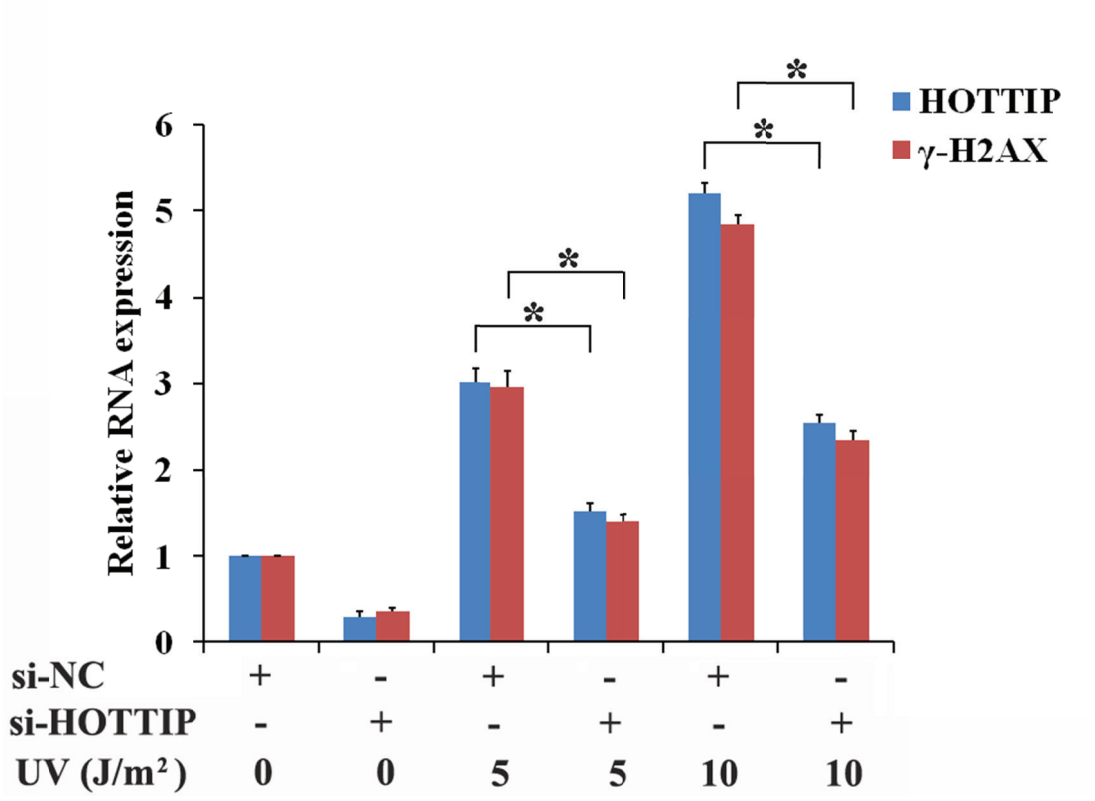
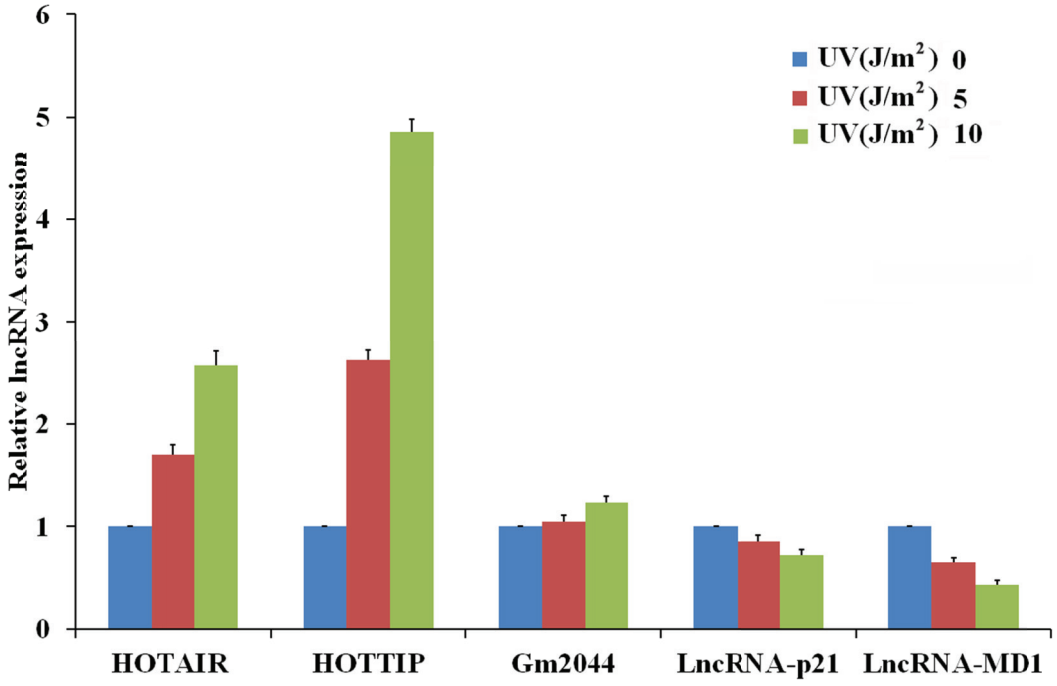
Supplementary Fig. S1. LncRNA-HOTTIP promotes the expression of Hoxa13. The efficiency for overexpression of HOTTIP and the Hoxa13 expression was analyzed by RT-qPCR assay in GC-1 cells after 24 hours transfected with pcDNA3.1(+) or pcDNA3.1(+)-HOTTIP. $**P < 0.01$.



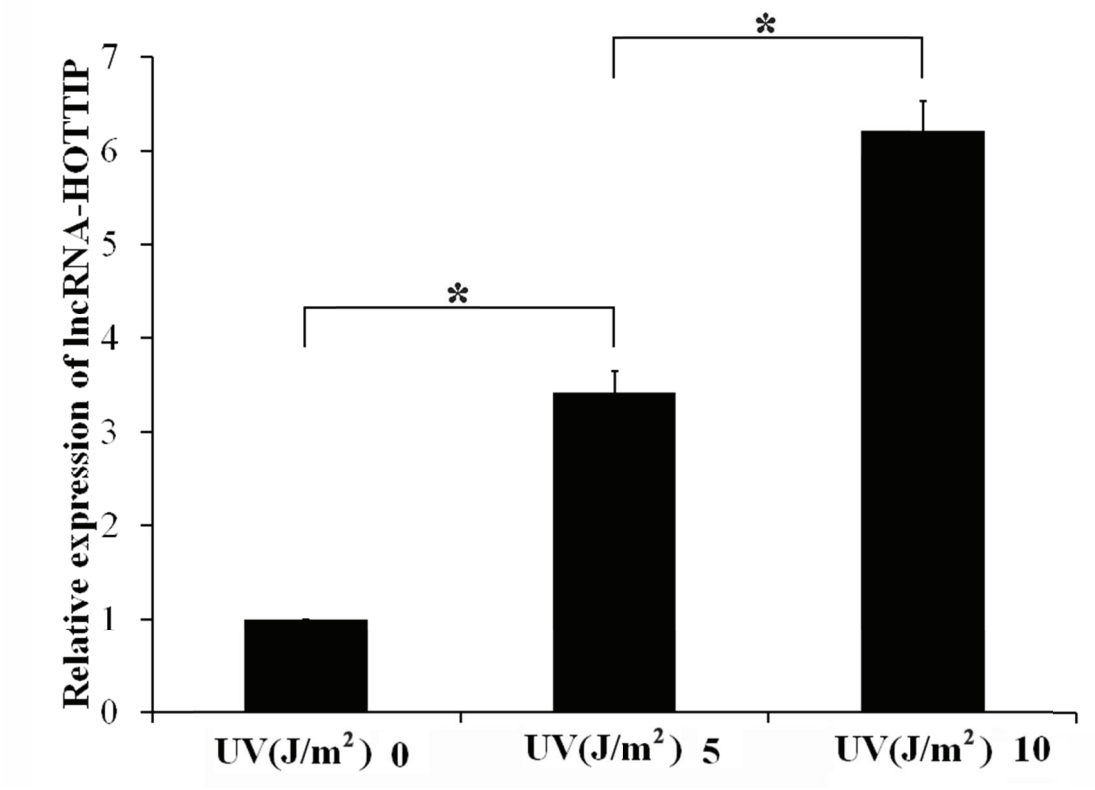
Supplementary Fig. S2. LncRNA-HOTTIP can promote γ-H2AX transcription in UV-induced DNA damage for GC-1 cells. GC-1 cells were transfected with si-NC or si-HOTTIP, and were treated by UV 0, 5 and 10 J/m^2 stimulation after 24 hours transfection, and then the isolated RNA was analyzed by using RT-qPCR. NC, negative control; *$P < 0.05$.



Supplementary Fig. S3. UV induces the expression of lncRNA-HOTAIR/HOTTIP and inhibits the expression of lncRNA-p21/MD-1. GC-1 cells were treated by UV 0, 5 and 10 J/m^2 stimulation and then were analyzed by RT-qPCR assay after 24 hours.



Supplementary Fig. S4. UV promotes the expression of lncRNA-HOTTIP in skin cell TE353-3K. TE353-3K cells were treated by UV 0, 5 and 10 J/m^2 stimulation and then were analyzed by RT-qPCR assay after 24 hours. *$P < 0.05$.



Supplementary Table S1. List of primer pairs for construction of expression vector.

Gene	Forward primer sequence (5'-3')	Reverse primer sequence (5'-3')
pcDNA3.1(+)-Hoxa13	TGACGGATCCGTCATGTTTCTCTACGG	ATGCGAATTCTTAACTAGTGGTCTTGAGTT

Supplementary Table S2. List of primer pairs for real-time quantitative PCR.

Gene	Forward primer sequence (5'-3')	Reverse primer sequence (5'-3')
HOTTIP	GAAAGGGGTGAACTGGAGTTGT	AGGTTCCTTCTTGGTGAA
Hoxa13	CCTTCAGACGCCAGCTCCTAT	TCCCGTTCGAGTTCTTTCAAC
β-actin	CACAGCTTCTTTGCAGCTCCTT	CGTCATCCATGGCGAACTG