

Supplementary Table

circRNA	P-value	FC	(T-HaCaT
		HaCaT)	Regulation
hsa_circRNA_008913	0.011599779	2.4891	down
hsa_circRNA_018225	0.020579294	2.0163703	down
hsa_circRNA_000868	0.017855967	1.8038514	down
hsa_circRNA_102526	0.014703508	1.6756018	down
hsa_circRNA_100834	0.011660387	1.6685229	down
hsa_circRNA_401506	0.012626576	1.6653973	down
hsa_circRNA_402587	0.018003813	1.5717613	down
hsa_circRNA_044839	0.00958485	1.5461621	down
hsa_circRNA_082572	0.039666	1.5422146	down
hsa_circRNA_405195	0.037688753	1.4521699	down
hsa_circRNA_026885	0.044244502	1.4292548	down
hsa_circRNA_000883	0.014178319	1.3978473	down
hsa_circRNA_101751	0.048857894	1.3787196	down
hsa_circRNA_100715	0.009448169	1.3682153	down
hsa_circRNA_101312	0.02202431	1.3511357	down
hsa_circRNA_062712	0.022682898	1.3395123	down
hsa_circRNA_100994	0.035338301	1.3376659	down
hsa_circRNA_040704	0.010781448	1.3337344	down
hsa_circRNA_103353	0.041389599	1.3320067	down
hsa_circRNA_102125	0.044174804	1.3301556	down
hsa_circRNA_100716	0.014447211	1.3091135	down
hsa_circRNA_104471	0.026165405	1.3022023	down

hsa_circRNA_102208	0.037587253	1.2962831	down
hsa_circRNA_000124	0.0171697	1.2864407	down
hsa_circRNA_072084	0.022425608	1.2837063	down
hsa_circRNA_102072	0.040832856	1.2836026	down
hsa_circRNA_066670	0.028088047	1.2784431	down
hsa_circRNA_000863	0.011454349	1.278423	down
hsa_circRNA_024770	0.02332009	1.2722777	down
hsa_circRNA_091551	0.010036337	1.269827	down
hsa_circRNA_101029	0.03962305	1.2630345	down
hsa_circRNA_104799	0.031448244	1.2489962	down
hsa_circRNA_000941	0.0396853	1.2435475	down
hsa_circRNA_402671	0.044449571	1.2366959	down
hsa_circRNA_005135	0.00641096	1.2190768	down

Supplementary Figures

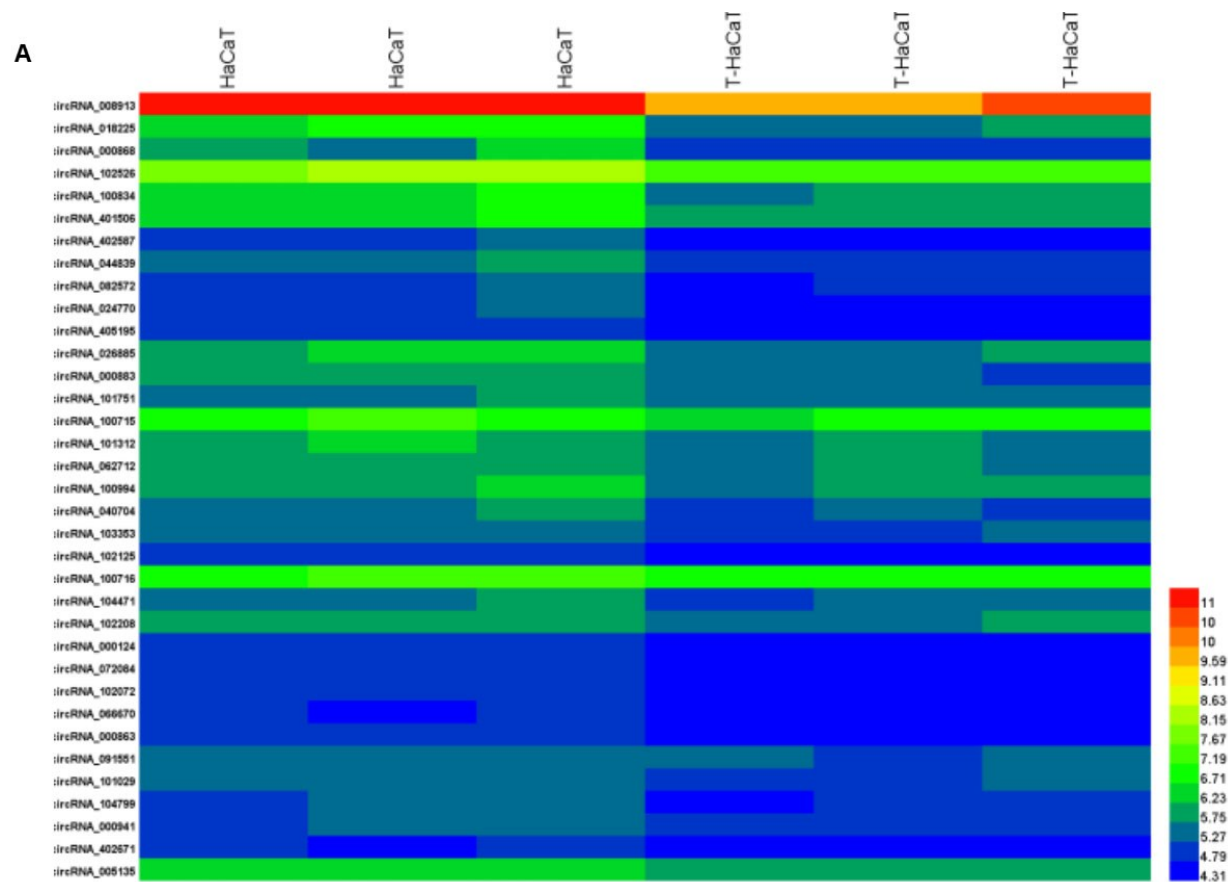


Fig. S1 circRNA expression profiles of HaCaT cells and T-HaCaT cells.

Abbreviations: T-HaCaT arsenite-transformed HaCaT cells, which are HaCaT cells exposed to 1 μ M arsenite for 40 passages. A circRNA microarray was accomplished with HaCaT cells and T-HaCaT cells according to the standard protocols of Arraystar. (A) A heat map of the 35 down-regulated circRNAs in T-HaCaT cells.

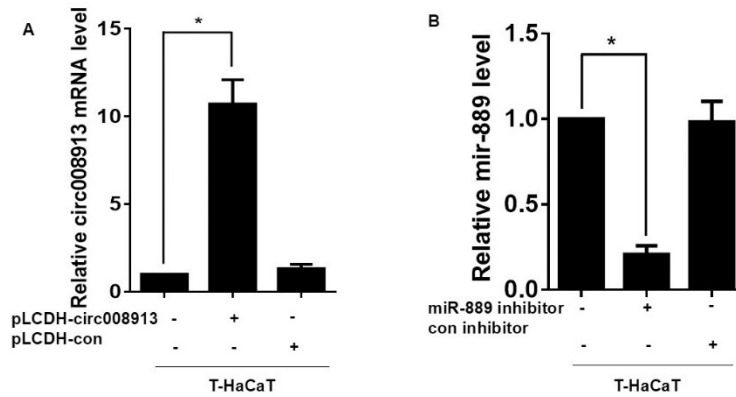


Fig. S2 The effects of pLCDH-circ008913 and an miR-889 inhibitor on the levels of circ008913 and miR889 in T-HaCaT cells. Abbreviation: T-HaCaT arsenite-transformed HaCaT cells, which are HaCaT cells exposed to 1 μ M arsenite for 40 passages. T-HaCaT cells were exposed to pLCDH-circ008913 (50 nM) or to pLCDH-control (50 nM) for 24 h. (A) The levels of circ008913 were determined by quantitative RT-PCR, $n = 3$. $*P < 0.05$, different from T-HaCaT cells in the absence of pLCDH-circ008913. T-HaCaT cells were cultured in the presence of an miR-889 inhibitor (50 nM) or a negative control for 24 h. (B) The levels of miR-889 were determined by quantitative RT-PCR, $n = 3$. $*P < 0.05$, different from T-HaCaT cells in the absence of an miR-889 inhibitor.