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## **Supplemental Information**

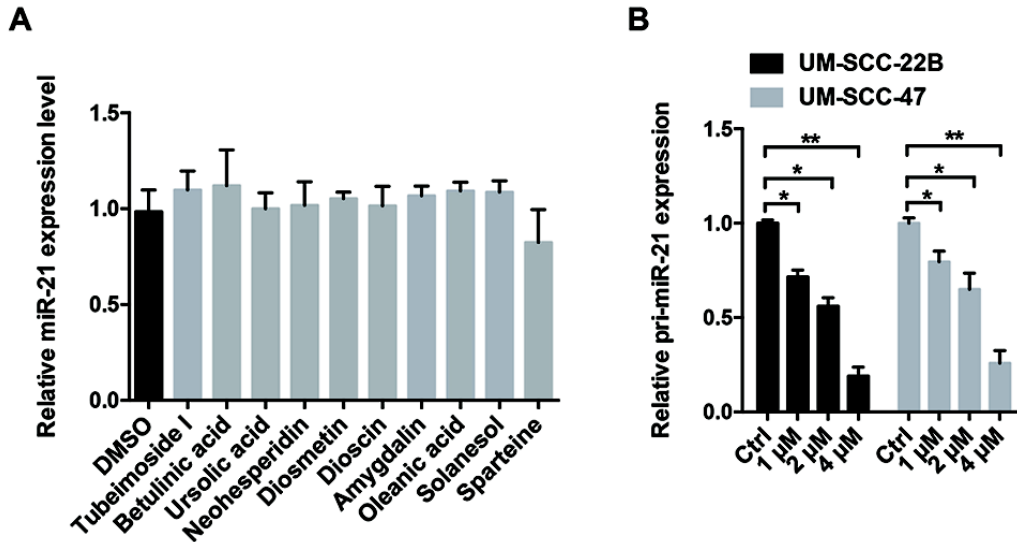
**Targeting miR-21 with Sophocarpine Inhibits**

**Tumor Progression and Reverses Epithelial-**

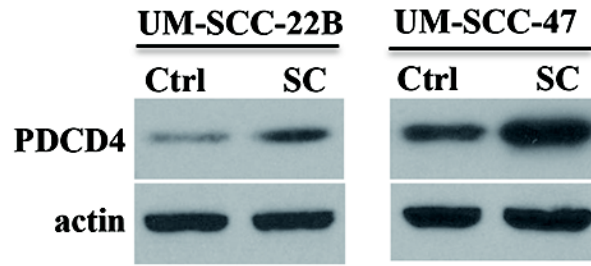
**Mesenchymal Transition in Head and Neck Cancer**

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## Supplemental Information



**Figure S1.** (A) UM-SCC-22B was treated with 10 different natural agents (4  $\mu$ M) as indicated for 48 h. Then real-time PCR was performed to detect the expression of miR-21. (B) UM-SCC-22B or UM-SCC-47 cells were treated with increased concentrations of SC and the relative miR-21 expression level was detected using real-time PCR assay. Data are shown as mean  $\pm$  SD of three independent experiments. \* $P < 0.05$ , \*\* $P < 0.01$  compared with DMSO control.



**Figure S2.** UM-SCC-22B or UM-SCC-47 cells were treated with SC (4  $\mu$ M) or DMSO for 48 h. Western blot assay was performed to detect the protein expressions of PDCD4. Actin as used as the loading control.

**Table S1. Primer sequences for qPCR**

<b>Primer name</b>	<b>Primer sequence (5'-3')</b>
Vimentin-F	GACGCCATCAACACCGAGTT
Vimentin-R	CTTTGTCGTTGGTTAGCTGGT
E-cadherin-F	CGGTGGTCAAAGAGCCCTTACT
E-cadherin-R	TGAGGGTTGGTGCAACAACGTCGTTA
Actin-F	AACAAGAGGCCACACAAATAGG
Actin-R	CAGATGTACAGGAATAGCCTCCG
U6-F	CAGGGGCCATGCTAAATCTTC
U6-R	CTTCGGCAGCACATATACTAAAAT
mir21-F	GTAGCTTATCAGACTGATGTTGA
mir10a-F	TACCCTGTAGATCCGAATTTGTG
mir15a-F	TAGCAGCACATAATGGTTTGTG
mir99a-F	AACCCGTAGATCCGATCTTGTG
mir124a-F	TAAGGCACGCGGTGAATGCC
mir155-F	TTAATGCTAATCGTGATAGGGGT
mir34a-F	TGGCAGTGTCTTAGCTGGTTGT
mir9-F	TCTTTGGTTATCTAGCTGTATGA
let7a-F	TGAGGTAGTAGGTTGTATAGTT