

iScience, Volume 27

Supplemental information

**Screening and molecular mechanism research
on bile microRNAs associated with chemotherapy
efficacy in perihilar cholangiocarcinoma**

**Shijie Fu, Haizhen Du, Yuyang Dai, Kanglian Zheng, Guang Cao, Liang Xu, Yujie
Zhong, Chuanxin Niu, Yan Kong, and Xiaodong Wang**

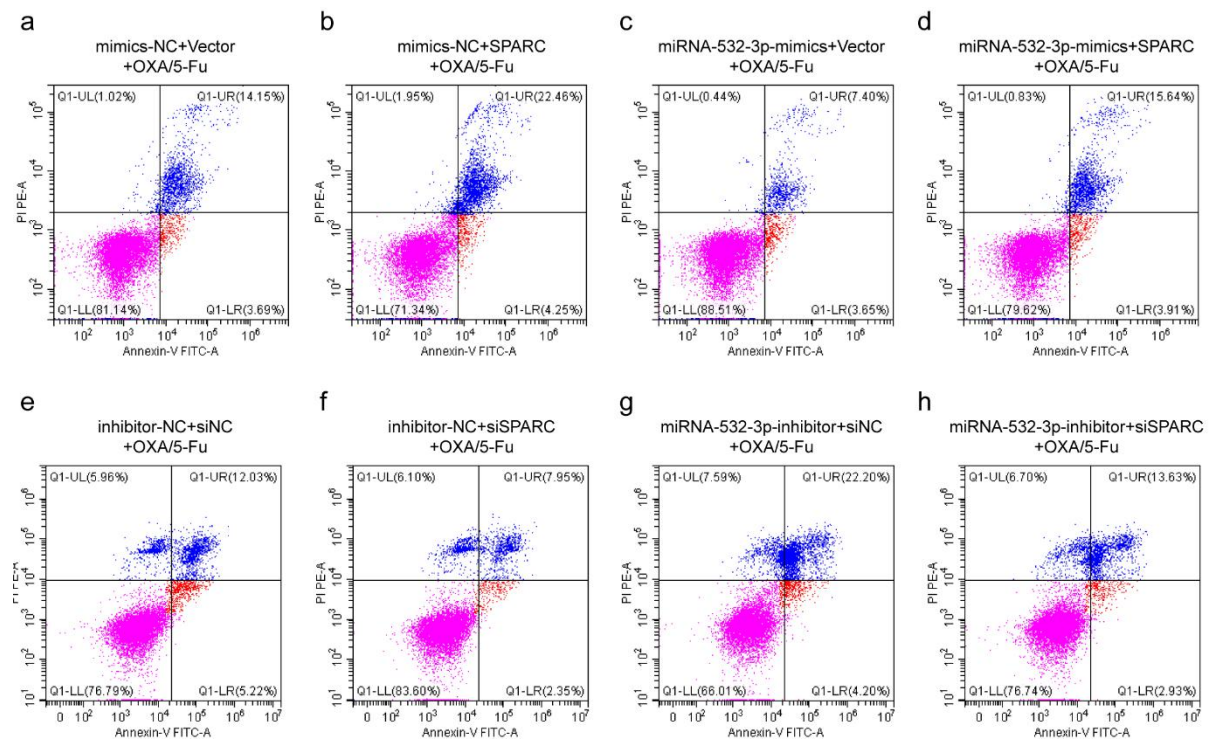


Figure S1. Representative flow cytometry analysis of apoptosis in QBC939 and FRH0201 cells after treatment with OXA/5-Fu and modulation of miR-532-3p and SPARC expression. (a-d) QBC939 cells were treated with OXA (5 $\mu\text{mol/L}$) and 5-Fu (10 $\mu\text{mol/L}$) following co-transfection with either miR-532-3p mimics (50 nM) or control (NC) and either SPARC (2 μg) or vector. (e-h) FRH0201 cells were treated with OXA (20 $\mu\text{mol/L}$) and 5-Fu (80 $\mu\text{mol/L}$) following co-transfection with either miR-532-3p inhibitor (100 nM) or control (NC) and either siSPARC (100 nM) or siNC. SPARC secreted protein acidic and rich in cysteine, OXA oxaliplatin, 5-Fu 5-fluorouracil, siRNA small interfering RNA, NC negative control.

Table S1 The sequences of miRNA mimics, inhibitor, and siRNA

Gene	Sequences (5'-3')
miR-532-3p-mimics	Sense: CCUCCCACACCCAGGCUUGCA Anti-sense: UGCAAGCCUUGGGUGUGGGAGG
miR-1250-5p-mimics	Sense: ACGGUGCUGGAUGGUGGCCUUU Anti-sense: AAAGGCCACAUCCAGCACCGU
miR-4772-5p-mimics	Sense: UGAUCAGGCAAAAUUGCAGACU Anti-sense: AGUCUGCAAUUUUGCCUGAUCA
mimics-NC	Sense: UCACAACCUCCUAGAAAGAGUAGA Anti-sense: UCUACUCUUUCUAGGAGGUUGUGA
miR-532-3p-inhibitor	UGCAAGCCUUGGGUGUGUGGGAGG
miR-1250-5p-inhibitor	AAAGGCCACAUCCAGCACCGU
miR-4772-5p-inhibitor	AGUCUGCAAUUUUGCCUGAUCA
inhibitor-NC	UCUACUCUUUCUAGGAGGUUGUGA
si-SPARC	AACAAGACCUUCGACUCUCC
si-NC	GCUCACAGCUCAAUCCUAAUC

miR: microRNA; siRNA: small interfering RNA; NC: negative control; SPARC: secreted protein acidic and rich in cysteine.

Table S2 Primer sequences in qPCR

Gene	Forward 5' -3'	Reverse 5' -3'
miR-532-3p	GGGCCTCCCACACCCAAGG	CAGTGCGTGTCGTGGAGT
miR-1250-5p	GGGACGGTGCTGGATGTG	CAGTGCGTGTCGTGGAGT
miR-4772-5p	GGGTGATCAGGCAAAATTG	CAGTGCGTGTCGTGGAGT
miR-3611	GGGTTGTGAAGAAAGAAA	CAGTGCGTGTCGTGGAGT
U6	CTCGCTTCGGCAGCACA	AACGCTTCACGAATTTGCGT
SPARC	TGAGGTATCTGTGGGAGCTAATC	CCTTGCCGTGTTTGCAGTG
β -actin	CATGTACGTTGCTATCCAGGC	CTCCTTAATGTCACGCACGAT

qPCR: quantitative polymerase chain reaction; miR: microRNA; SPARC: secreted protein acidic and rich in cysteine.