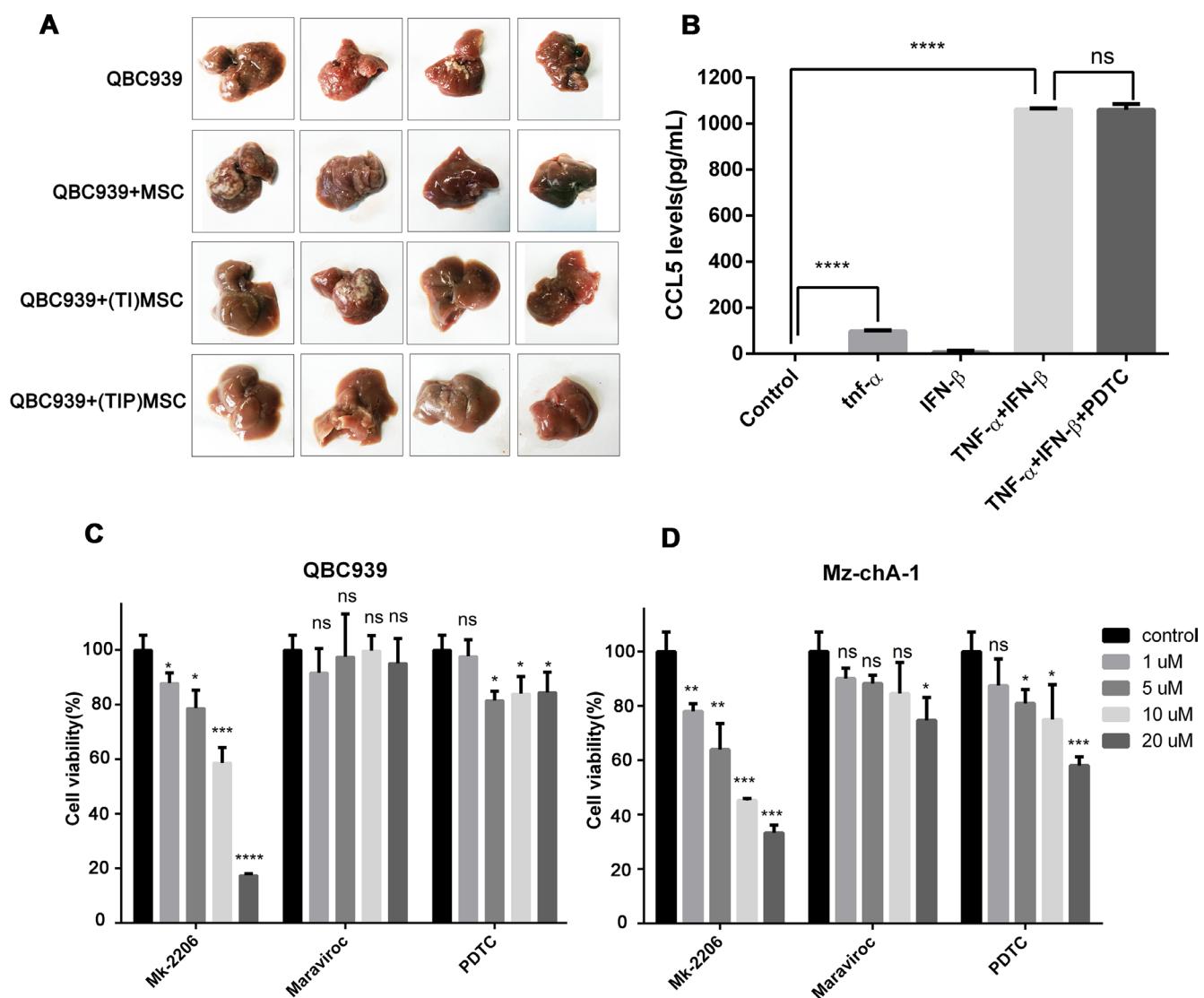


Mesenchymal stem cells in inflammatory microenvironment potently promote metastatic growth of cholangiocarcinoma via activating Akt/NF- κ B signaling by paracrine CCL5

SUPPLEMENTARY MATERIALS



Supplementary Figure 1: (A) Picture showing metastasized tumor nodules in liver tissue. (B) PDTC can not inhibit the expression of CCL5 which induced by TNF- α and IFN- γ . (C-D) Effects of MK-2206, Maraviroc and PDTC on cell viability of QBC939 (C) and Mz-chA-1 (D). Data are presented as means \pm SD. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, **** $P < 0.0001$; two-tailed Student's *t* test.

Supplementary Table 1: Real-time RT-PCR primers

Gene	Forward primer(5'-3')	Reverse primer(5'-3')
<i>IL-6</i>	GGCACTGGCAGAAAACAACC	GCAAGTCTCCTCATGAAATCC
<i>TNF-a</i>	GGCGTGGAGCTGAGAGATAAC	GGTGTGGGTGAGGAGCACAT
<i>CCL5</i>	TACCATGAAGGTCTCCGC	GACAAAGACGACTGCTGG
<i>TGF-b</i>	CCCACAACGAAATCTATGAC	CCAGGAATTGTTGCTGTATT
<i>Periostin</i>	TGTTGCCCTGGTTATATGAG	ACTCGGTGCAAAGTAAGTGA
<i>IDO</i>	GCCCTTCAAGTGTTCACCAA	CCAGCCAGACAAATATATGCGA
<i>CCR5</i>	GTATCTGGCATAGTATTCTGT	ATCTCTGGTCTGAAGGTT
<i>E-cadherin</i>	TGCCCAGAAAATGAAAAAGG	GTGTATGTGGCAATGCGTTC
<i>Vimentin</i>	GAGAACTTGCCTGTTGAAGC	GCTTCCTGTAGGTGGCAATC
<i>Snail</i>	CTGGGTGCCCTCAAGATGCA	CCGGACATGGCCTTAGCA
<i>Slug</i>	TACCGCTGCTCCATTCCACG	CATGGGGGTCTGAAAGCTTGG
<i>ZEB1</i>	TGCACTGAGTGTGGAAAAGC	TGGTGATGCTGAAAGAGACG
<i>ZEB2</i>	CGGTATTGCCAACCTCTGGA	TTGTTGTGCCAGGGTGTCC
<i>GAPDH</i>	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG