

**Supplementary table 1. Primer list**

<b>Primers</b>	<b>Sequences (5'-3')</b>
hsa-miR-133a-3p Forward	ACACTCCAGCTGGGTTTGTCCCCTCAAC
hsa-miR-133a-3p Reverse	TGGTGTCGTGGAGTCG
U6 Forward	CTCGCTTCGGCAGCACA
U6 Reverse	AACGCTTCACGAATTTGCGT
Cel-miR-39-3p Forward	GGGTCACCGGGTGTAATC
Cel-miR-39-3p Reverse	GAGAGGAGAGGAAGAGGAA

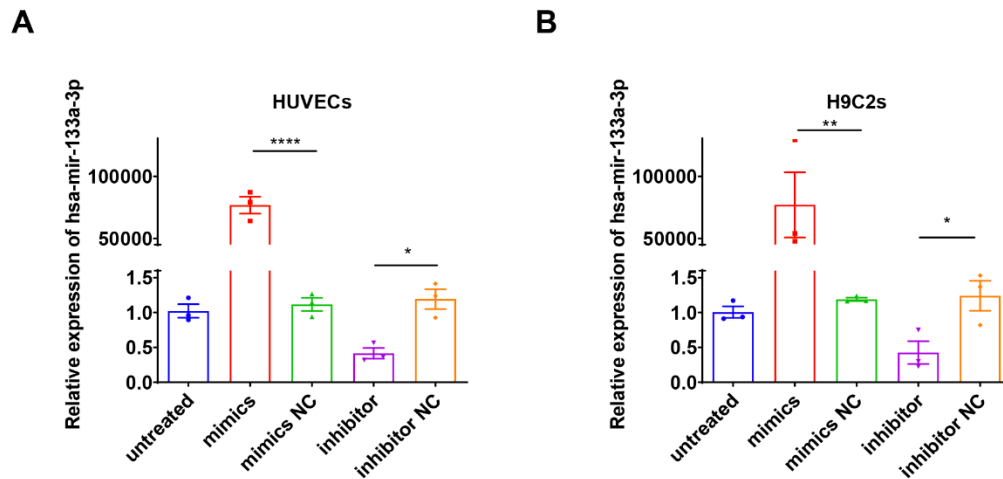
**Supplementary table 2. Sequences list of miR-133a-3p mimics or inhibitor**

	<b>Sequences (5'-3')</b>
hsa miR-133a-3p mimics	UUUGGUCCCCUUCAACCAGC
hsa miR-133a-3p mimics NC	UUUUCCGAACGUUCACGUTT
hsa miR-133a-3p inhibitor	CCAGTACATCGCGGTGCACGT
hsa miR-133a-3p inhibitor NC	CAGUACUUUUGUGUAGUACAA

**Supplementary table 3. Sequences list of MIF and siMIF**

<b>MIF and siMIF</b>	<b>Sequences (5'-3')</b>
MIF	ATGCCGATGTTTCATCGTAAACACCAACG TGCCCCGCGCCTCCGTGCCGGACGGGTT CCTCTCCGAGCTCACCCAGCAGCTGGC GCAGGCCACCGGCAAGCCCCCCCAGTA CATCGCGGTGCACGTGGTCCCGGACCA GTCATGGCCTTCGGCGGCTCCAGCGAG CCGTGCGCGCTCTGCAGCCTGCACAGCA TCGGCAAGATCGGCGGCGCGCAGAACC GCTCCTACAGCAAGCTGCTGTGCGGCCT GCTGGCCGAGCGCCTGCGCATCAGCCC GGACAGGGTCTACATCAACTATTACGAC ATGAACGCGGCCAATGTGGGCTGGAAC AACTCCACCTTCGCC
siMIF	AGTACATCGCGGTGCACGT

**Supplementary Figure 1. HUVECs and H9C2s were transfected by transfection reagents. (A) qRT-PCR showed that miR-133 mimics or inhibitor transfected HUVECs successfully. (B) qRT-PCR showed that miR-133 mimics or inhibitor transfected H9c2 cells successfully. (n=3). All data are mean  $\pm$  SEM. Statistical analysis was performed with t test. \*P < 0.05, \*\*P < 0.01, \*\*\*\*P < 0.0001.**



**Supplementary Figure 2. Gain and loss function of exosomal miR-133a-3p on pro-angiogenesis, proliferation, and apoptosis in HUVECs and H9c2 cells. (A)** Quantification analysis angiogenic effects in HUVECs with incubation of MIF-Exo and miR-133a-3p inhibitor (n = 3 biological replicates for each group). **(B)** Quantification analysis of proliferation effects in HUVECs with incubation of MIF-Exo and miR-133a-3p inhibitor (n = 3 biological replicates for each group; 5 random fields for each biological replicate). **(C)** Quantification analysis Apoptotic ability in H9c2 cells with incubation of MIF-Exo and miR-133a-3p inhibitor (n = 3 biological replicates for each group). Continuous variables were described by means  $\pm$  SEM and percentages. \* $P < 0.05$ ; \*\*\*\* $P < 0.0001$ ; NS, not significant.

