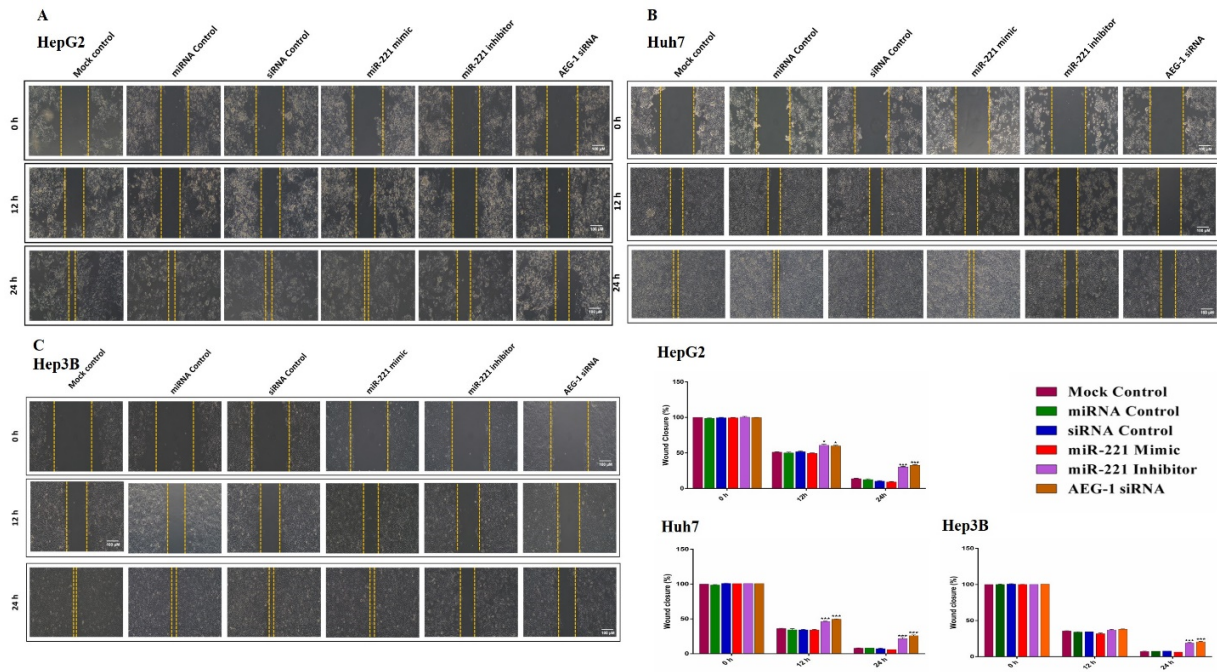


Supplementary Materials

Supplementary Figure S1:



Supplementary Figure S1. Silencing of AEG-1 and miR-221 inhibits HCC cellular proliferation *in vitro*. The effect of the miR-221/AEG-1 measured on HCC cell proliferation in the miR-221 mimic, miR-221 inhibitor, AEG-1 siRNA, and their corresponding controls transfected HepG2, Huh7, and Hep3B cells by scratch assay (A, B, and C) *in vitro*. The wound gap was quantified in different time intervals (0, 12, and 24 h) using Image J (NIH) (scale bar, 100 μ m). Error bars presented as mean \pm s.d and P-value represented as **P<0.01, ***P<0.001 compared to the corresponding controls.

Supplementary Table S1:

Primers List

miR-221 and U6 Reverse Transcription (RT) Primer

| S.No | Gene | RT |
|------|---------|--|
| 1 | miR-221 | 5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACGAAACC -3' |
| 2 | U6 | 5'-AACGCTTCACGAATTTGCGT-3' |

qRT-PCR Primer

| S. No | Gene | Forward Primer | Reverse Primer |
|-------|---------|-------------------------------|-------------------------------|
| 1. | miR-221 | 5'- CGCAGCTACATTGTCTGCTGG-3' | 5'- GTGCAGGGTCCGAGGT-3' |
| 2 | U6 | 5'-CTCGCTTCGGCAGCACA-3' | 5'-AACGCTTCACGAATTTGCGT-3' |
| 3 | AEG-1 | 5'-AAATAGCCAGCCTATCAAGACTC-3' | 5'-TTCAGACTTGGTCTGTGAAGGAG-3' |
| 4. | LSF | 5'-GGGTGCCATTCCGAGTACAA-3' | 5'-GCCGAGTGTAAGTGCTCAGT-3' |
| 5 | MMP9 | 5'-CCTGGGCAGATTCCAAACCT-3' | 5'-CAAAGGCGTCGTCAATCACC-3' |
| 6 | P57 | 5'-GTGAGCCAAAGCCCAAAGAG-3' | 5'-TGCTACATGAACGGTCCCAG-3' |
| 7 | P53 | 5'-CCTCTCCCCAGCCAAAGAAG-3' | 5'-TCTCGGAACATCTCGAAGCG-3' |
| 8 | RB1 | 5'-GTCCGGTTTTTCTCAGGGGA-3' | 5'-GCGAGCTGTGGAGGAGC-3' |
| 9 | OPN | 5'-TGACCCATCTCAGAAGCAGAA-3' | 5'-CTTACTTGGAAGGGTCTGTGGG-3' |
| 10 | PTEN | 5'-TGCGGTGACATCAAAGTAGAG-3' | 5'-CTCTGGTCCTGGTATGAAGAATG-3' |
| 11 | Bcl-2 | 5'-GTGAACTGGGGGAGGATTGT-3' | 5'-GGAGAAATCAAACAGAGGCC-3' |
| 12 | PI3K | 5'- CCCCTCCATCAACTTCTTCA-3' | 5'-CGGTTGCCTACTGGTTCAAT-3' |
| 13 | Akt | 5'-GGGTTTCTCCCAGGAGGTTT-3' | 5'-GTCCATGGTGTTCTTACCCA-3' |
| 14 | LC3A | 5'-GACTCCATGGCTTCCGAGTT-3' | 5'-GTCCACAGCTGCTTTTCCAC-3' |
| 15 | GAPDH | 5'-ATGGGGAAGGTGAAGGTCG-3' | 5'-GGGTCATTGATGGCAACAATATC-3' |