

1     **Cancer-secreted exosomal miR-1825 promotes metastasis by inducing**  
2                     **angiogenesis in colorectal cancer**

3                                     Sun et al.

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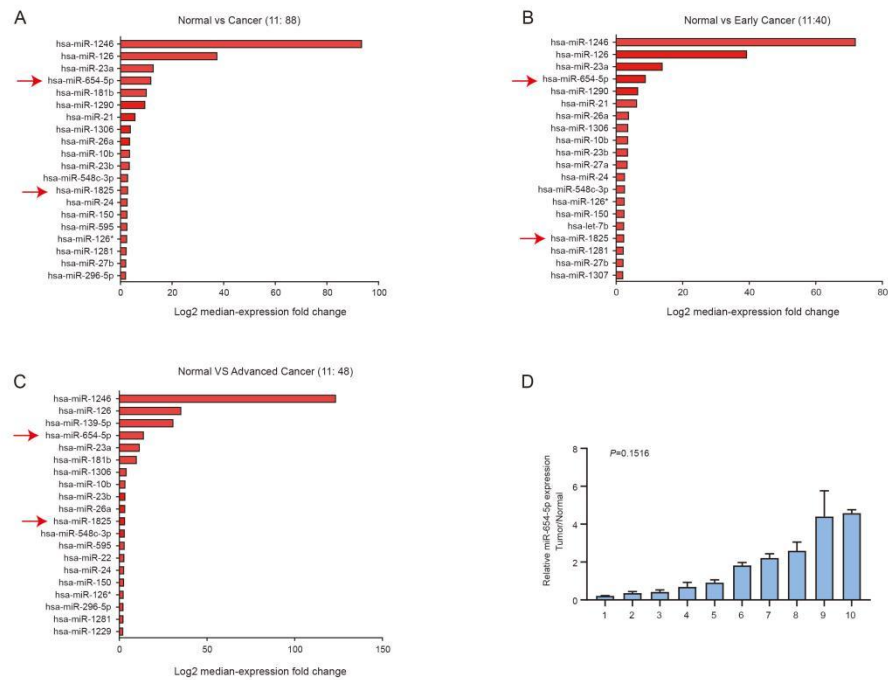
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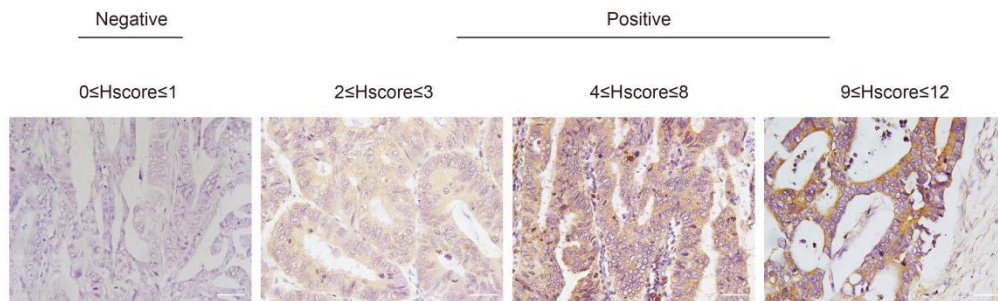
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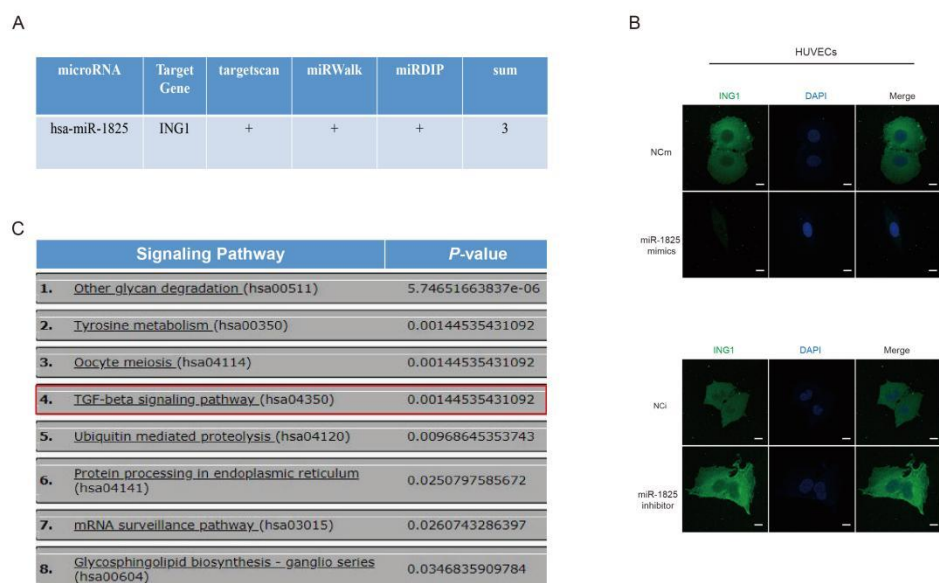
# **Supplementary Figure 1. Screening of differentially expressed miRNAs in Public Database Microarray (GSE39833).**

**A** High level of circulating exosomal miRNAs in CRC patients compared with healthy donors. **B** High level of circulating exosomal miRNAs in early CRC patients compared with healthy donors. **C** High level of circulating exosomal miRNAs in advanced CRC patients compared with healthy donors. **D** Relative RNA level of miR-1825 in 10 CRC tissues and paired adjacent normal tissues, as determined by RT-PCR. Relative expression levels were normalized to U6. means $\pm$ SD, two-tailed Student's t-test.



**Supplementary Figure 2. ISH scores (HSCORE) of miR-1825 are analyzed in CRC specimens.**

Representative images of different Hscore groups are shown (magnification 400 ×). Scale bars, 20 μm.



### Supplementary Figure 3. ING1 is a direct target of miR-1825.

**A** Three algorithms (Targetscan, miRWalk and miRDIP) were used to predict ING1 as a potential downstream target of miR-1825. **B** Immunofluorescence staining analysis of ING1 in HUVECs after transfection in each group. Scale bars, 10  $\mu$ m. **C** DIANA TOOLS analysis revealed a significant association between miR-1825 and TGF- $\beta$  signaling pathway.

Supplementary Table 1. Lentivirus sequences.

| Name                          | Sequence(5'→3')      |
|-------------------------------|----------------------|
| miR-1825 inhibitor lentivirus |                      |
| miR-1825-inhibition-a         | TCCAGTGCCCTCCTCTCC   |
| miR-1825-inhibition-b         | GGAGAGGAGGGCACTGGA   |
| miR-1825 mimics lentivirus    | AGAGACTGGGGTGCTGGGCT |
|                               | CCCCTAGACTAGGACTCCAG |
|                               | TGCCCTCCTCTCC        |

Supplementary Table 2. Primer sequences for RT-PCR.

| Primer         | Sequence(5'→3')          |
|----------------|--------------------------|
| hsa-miR-1825   | TCCAGTGCCCTCCTCTCC       |
| hsa-miR-654-5p | GGTGGGCCGCGAGAACATG      |
| U6-F           | GGAACGATACAGAGAAGATTAGC  |
| U6-R           | TGGAACGCTTCACGAATTTGCG   |
| ING1-F         | AAGTGGTACTGTCCCAAGTGCC   |
| ING1-R         | GCCCTCTCTTTTTTGGATTTCTCC |
| GAPDH-F        | CCATCAATGACCCCTTCATTGACC |
| GAPDH-R        | GAAGGCCATGCCAGTGAGCTTCC  |