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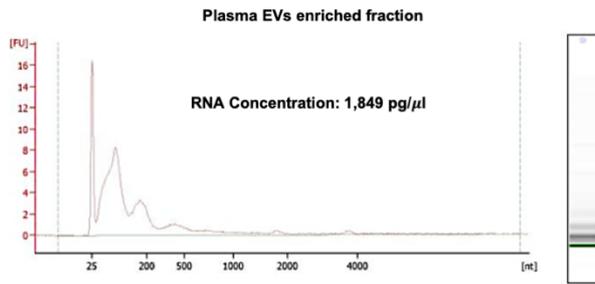


Figure S1. Confirmation of human plasma EV-miRNAs.

(A) Representative result of plasma EV enriched fractions derived RNAs by Agilent 2100 Bioanalyzer (25nt means miRNAs).

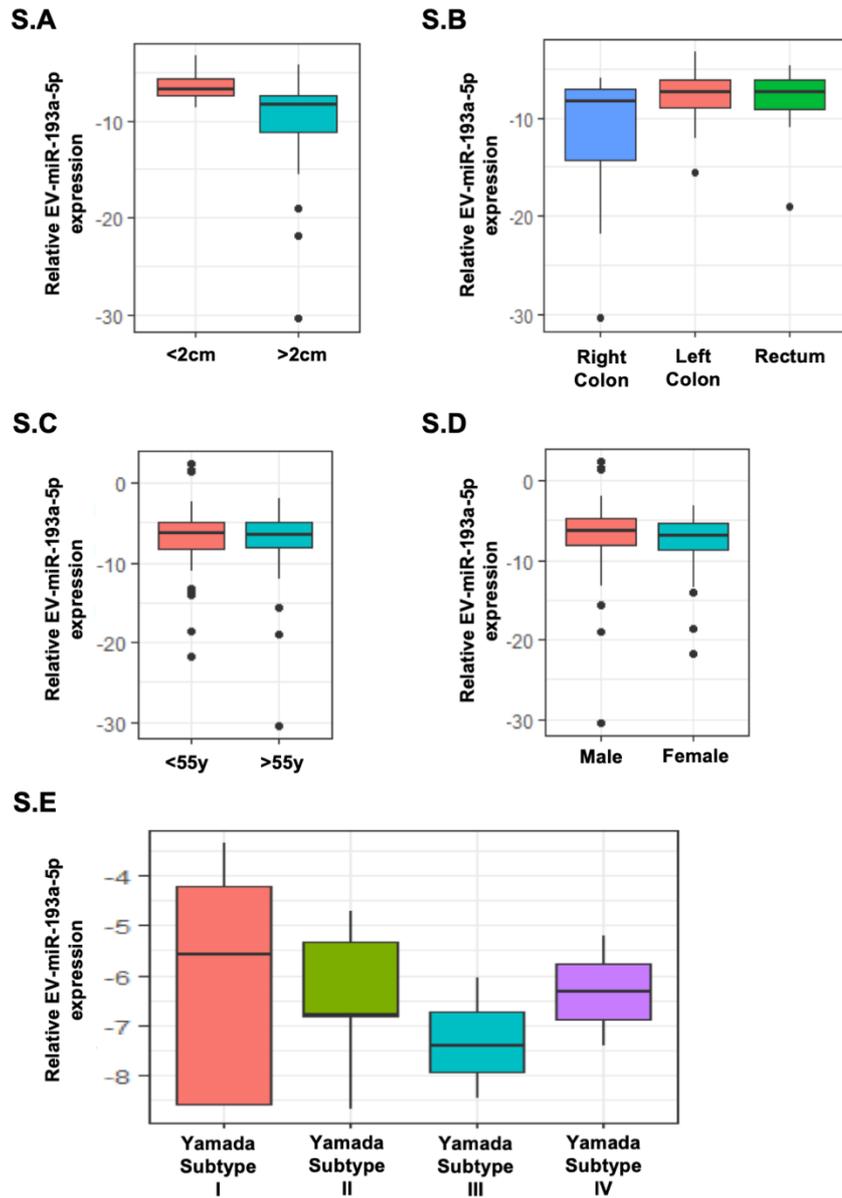


Figure S2. Comparing the plasma EV-miR-193a-5p expression in CRC patients at different subgroups.

(A) Tumor size (left: <2cm; right: >2cm). (B) Tumor location (left: Right colon; middle: Left colon; right: Rectum). (C) Patients age (left: <55 years; right:>55 years). (D) Patients gender (left: Male; right: Female). (E) Yamada Subtype (I, II, III and IV).

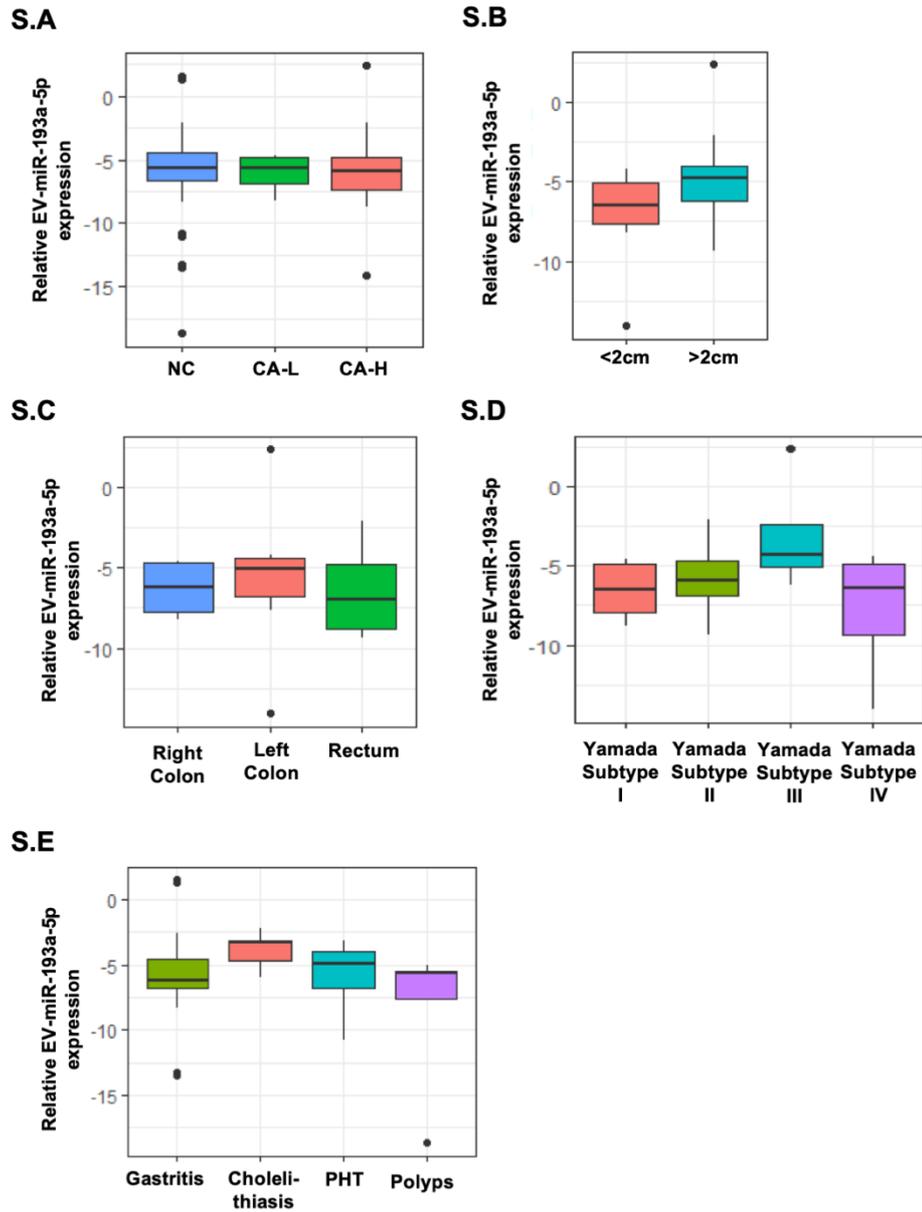


Figure S3. Comparing the plasma EV-miR-193a-5p expression in NC and CA patients at different subgroups.

(A) NC and CA subgroups (CA-Low grade, CA-High grade). (B) Tumor size (left: <2cm; right: >2cm). (C) Tumor location (left: Right colon; middle: Left colon; right: Rectum). (D) Yamada Subtype (I, II, III and IV). (E) Other digestive diseases (Gastritis, Cholelithiasis, PHT (portal hypertension), Polyps).

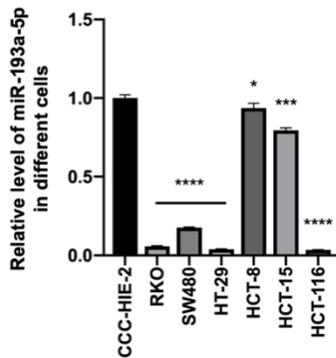
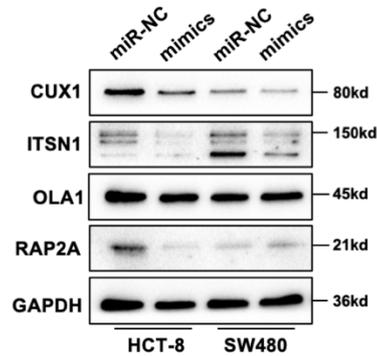
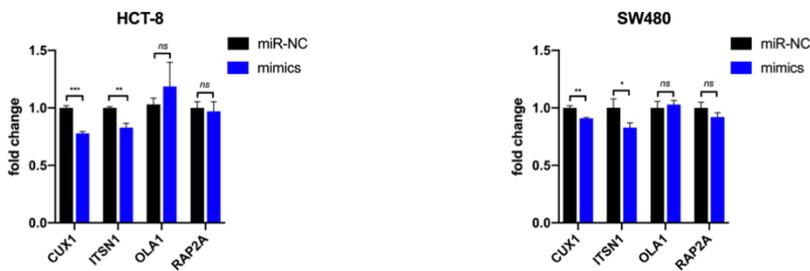
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Figure S4. miR-193a-5p is decreased in different CRC cell lines, and CUX1 and ITSN1 are its' target genes.

(A) Comparing the relative expression level of miR-193a-5p among normal colon epithelial cell (CCC-HIE-2) and different CRC cell lines by RT-qPCR ($*p < 0.05$, $***p < 0.001$, $****p < 0.0001$). (B) The protein expression analysis of 4 tumor associated target genes, including CUX1, ITSN1, OLA1, and RAP2A, in CRC cells after transfection with miR-193a-5p mimics or miR-NC. (C) The mRNA expression analysis of 4 tumor associated genes, including CUX1, ITSN1, OLA1, and RAP2A, in HCT-8 and SW480 cells after transfection with miR-193a-5p mimics or miR-NC ($*p < 0.05$, $**p < 0.01$, $***p < 0.001$).