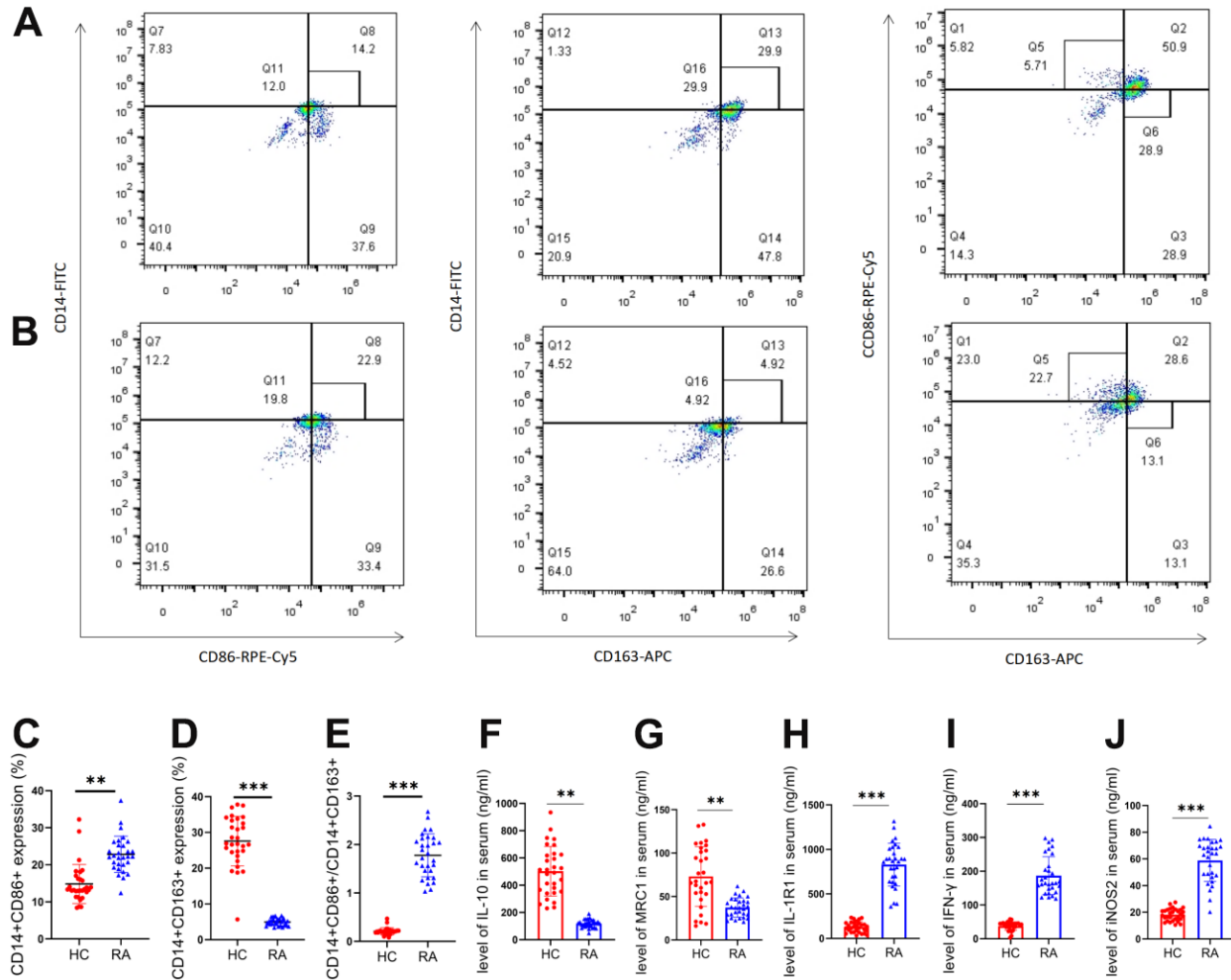
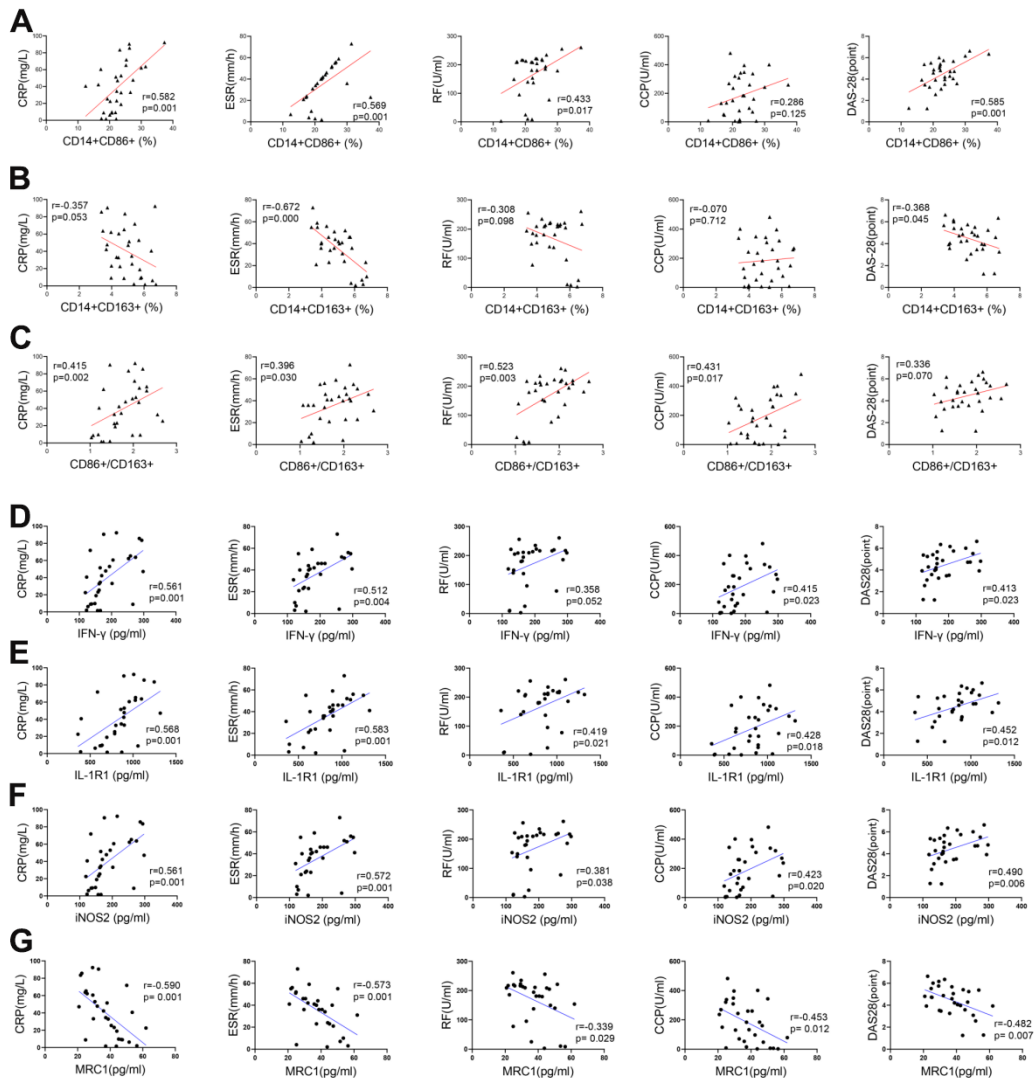


SUPPLEMENTARY MATERIALS

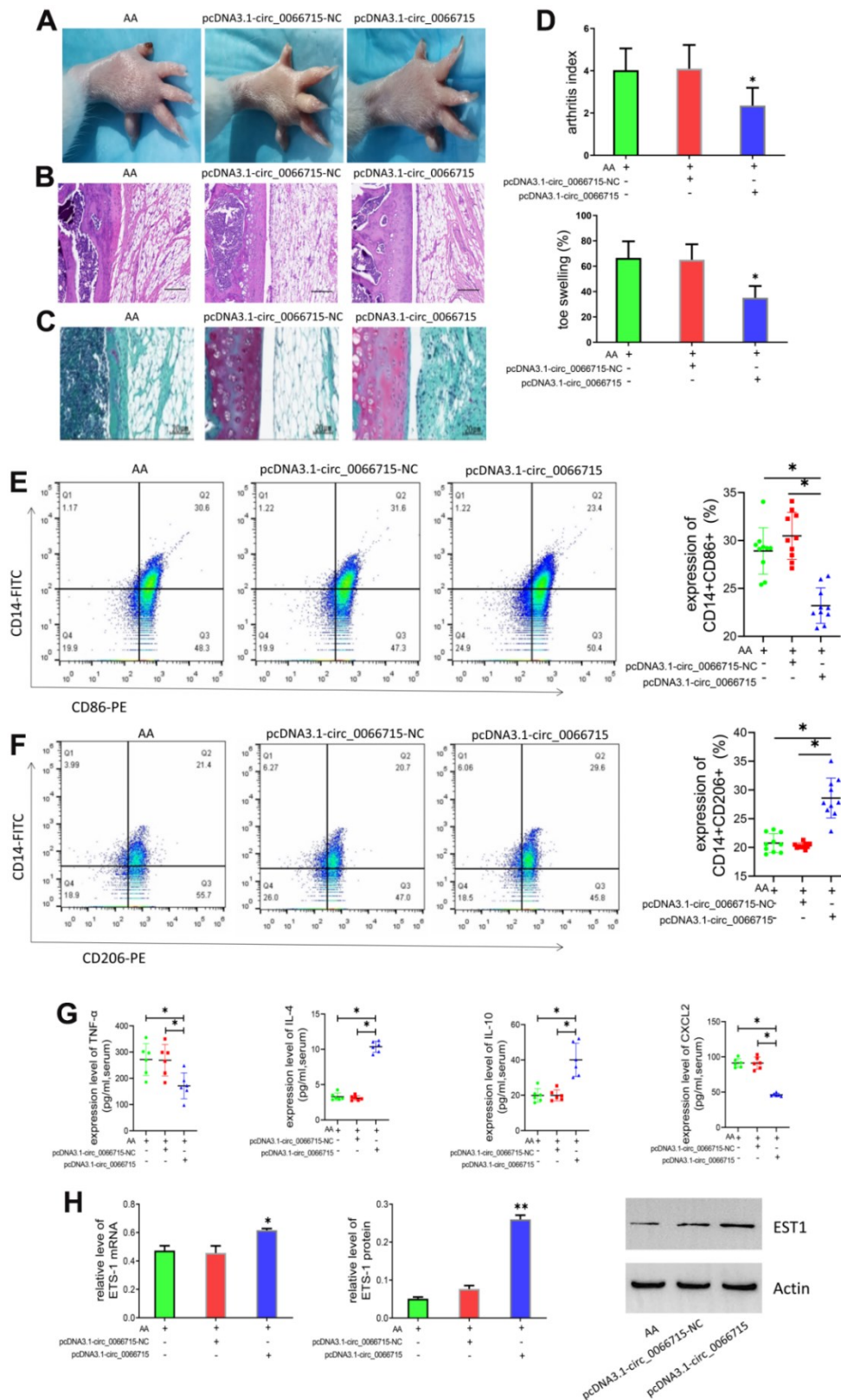
Supplementary Figures



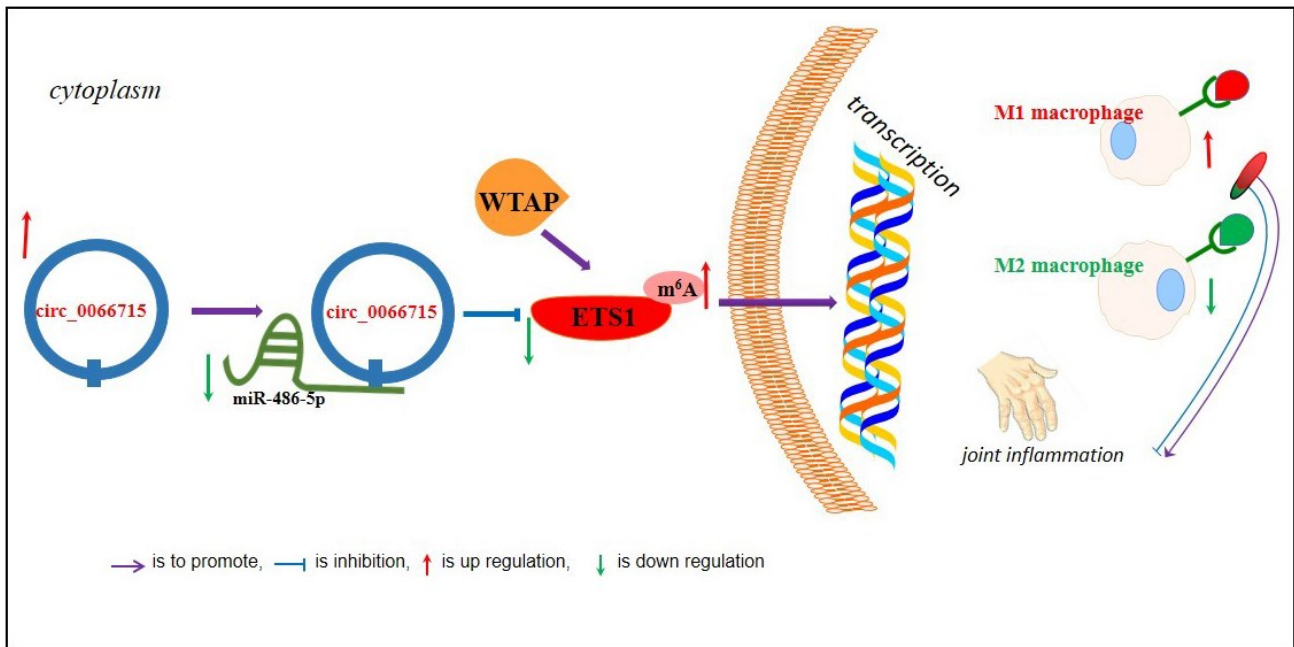
Supplementary Figure 1. Comparison of M1 and M2 macrophage markers between the two groups. (A) Flow cytometry of macrophages in the HC group. **(B)** Flow cytometry map of macrophages in RA group. **(C–F)** Comparison of HC and RA macrophage markers. **(G–J)** Comparison of cytokine secretion by HC and RA macrophages. *** $P < 0.001$, ** $P < 0.01$.



Supplementary Figure 2. Correlation analysis between M1 and M2 macrophages and clinical indicators of RA. (A) The correlation between CD14+CD86+ and clinical indicators of RA. (B) The correlation between CD14+CD163+ and clinical indicators of RA. (C) The correlation between CD86+/CD163+ and clinical indicators of RA. (D) The correlation between IFN- γ and clinical indicators of RA. (E) Correlation of IL-1R1 with clinical indicators of RA. (F) Correlation of iNOS2 with clinical indicators of RA. (G) Correlation of MRC1 with clinical indicators of RA.



Supplementary Figure 3. circ_0066715 delays macrophage polarization *in vivo*. (A) Comparison of joint morphology; (B) Comparison of joint HE staining ($\times 200$); (C) Comparison of joint safranin fast green ($\times 200$); (D) Comparison of arthritis index and toe swelling; (E) M1 macrophage marker comparison; (F) M2 macrophage marker comparison; (G) Comparison of cytokine secretion by macrophages; (H) ETS1 changes after circ_0066715 overexpression. ** $P < 0.01$, * $P < 0.05$.



Supplementary Figure 4. Mechanistic process of ceRNA regulatory axis and m6A methylation modification involved in RA macrophage polarization.