

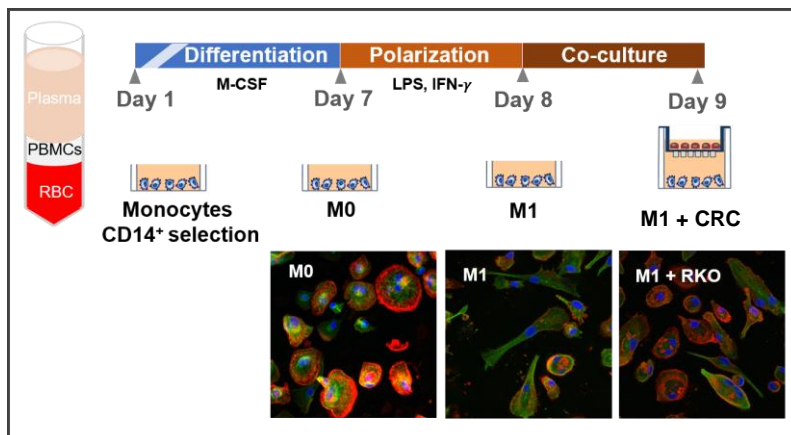
**Pro-inflammatory polarization and colorectal cancer modulate
alternative and intronic polyadenylation in primary human
macrophages**

Wilton et al.

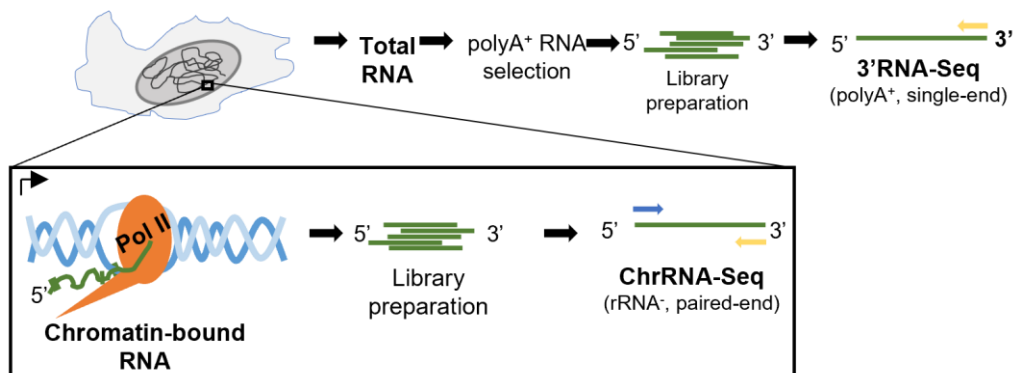
FIGURES

Figure 1 – M1 polarization and CRC co-culture modulate macrophage inflammatory and gene expression profiles

A



B



C

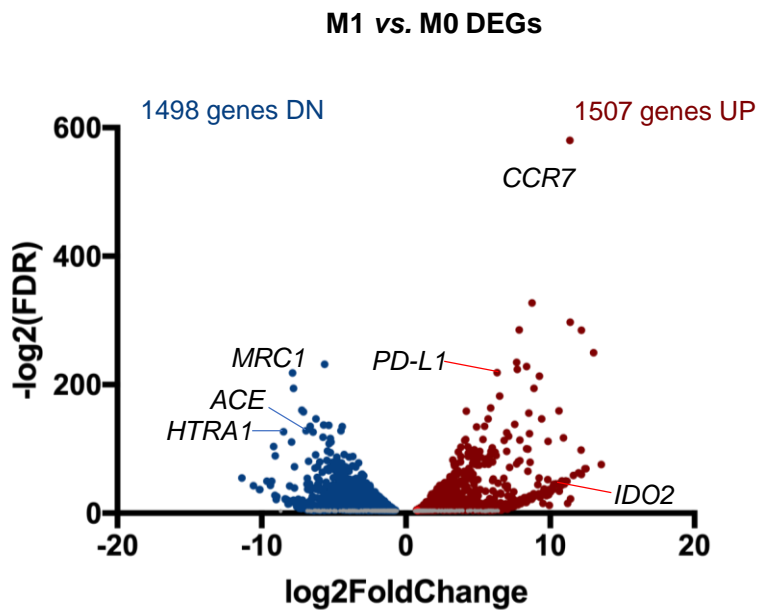
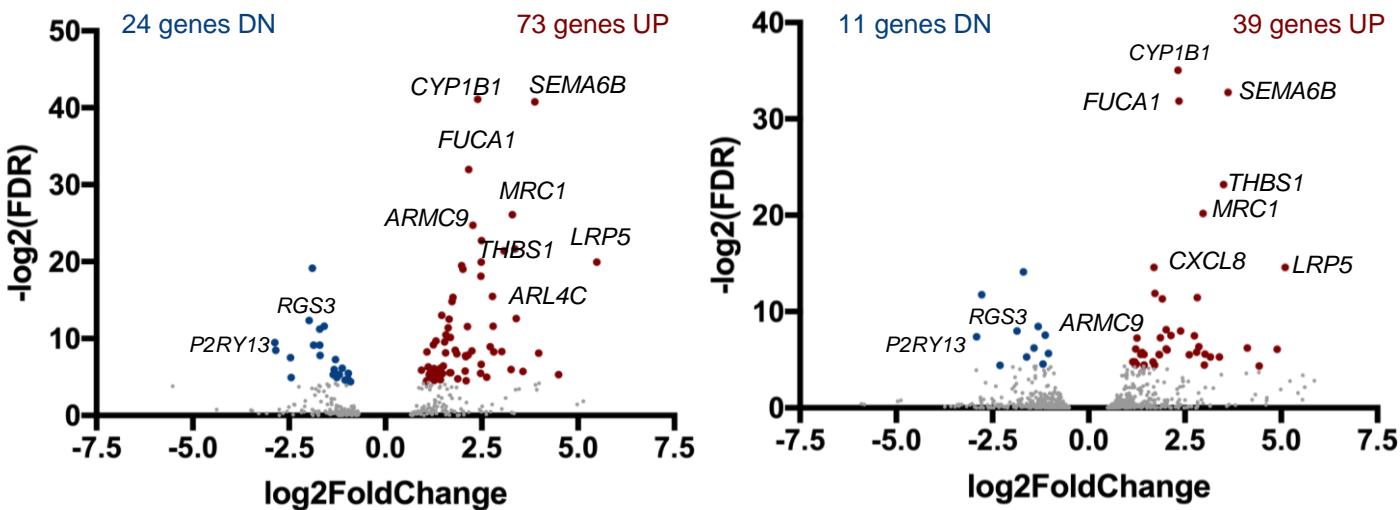


Figure 1 – M1 polarization and CRC co-culture modulate macrophage inflammatory and gene expression profiles

D

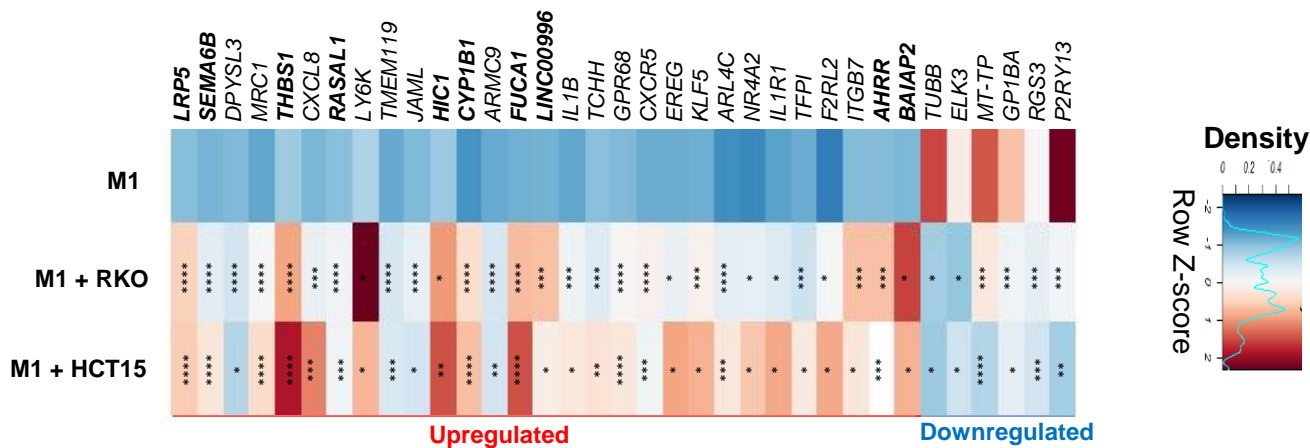
M1 + RKO vs. M1 DEGs

M1 + HCT-15 vs. M1 DEGs



E

3'RNA-Seq



F

ChrRNA-Seq

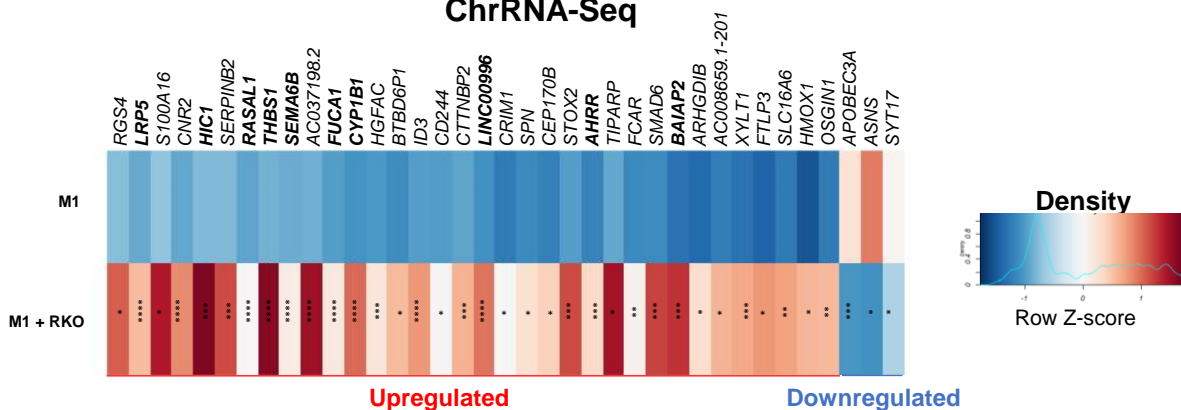
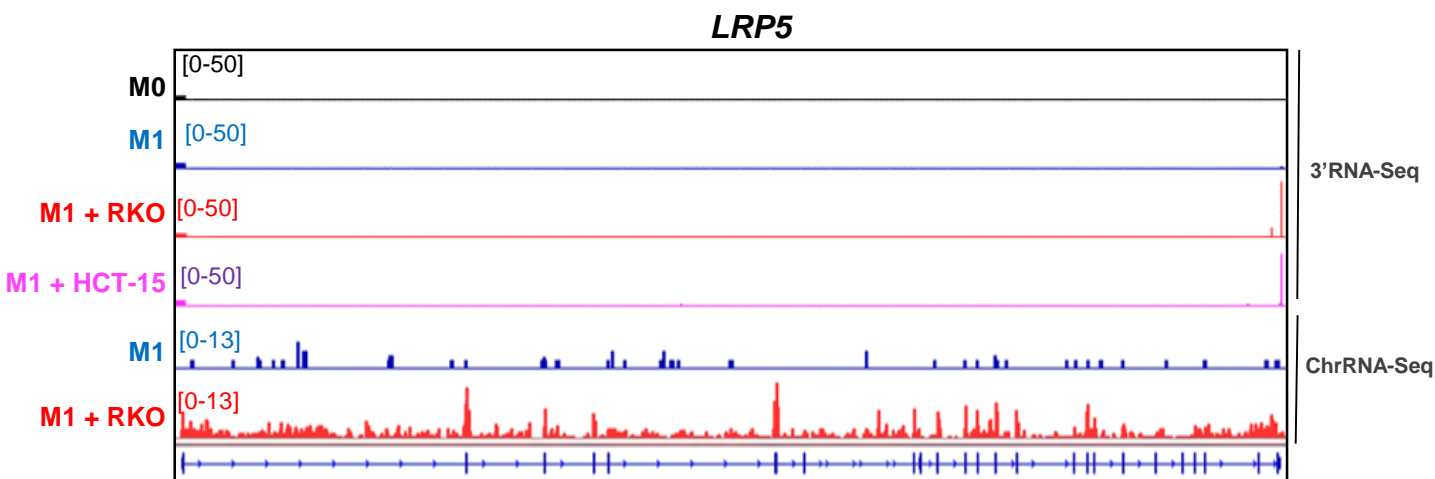
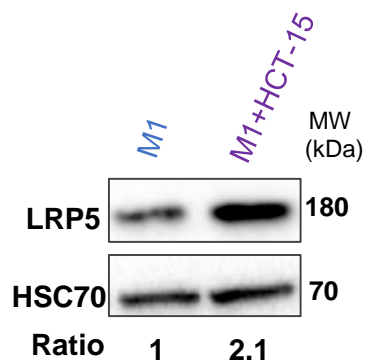


Figure 2 – CRC patients present differential expression of inflammation-related genes that is also found in CRC co-cultured macrophages

A



B



C

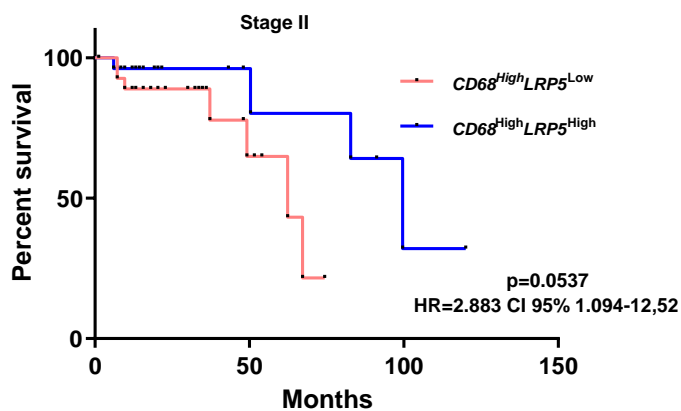
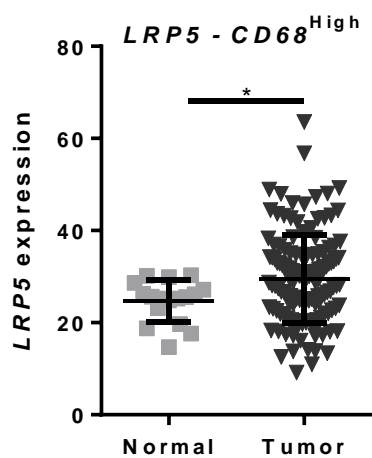


Figure 2 – CRC patients present differential expression of inflammation-related genes that is also found in CRC co-cultured macrophages

D

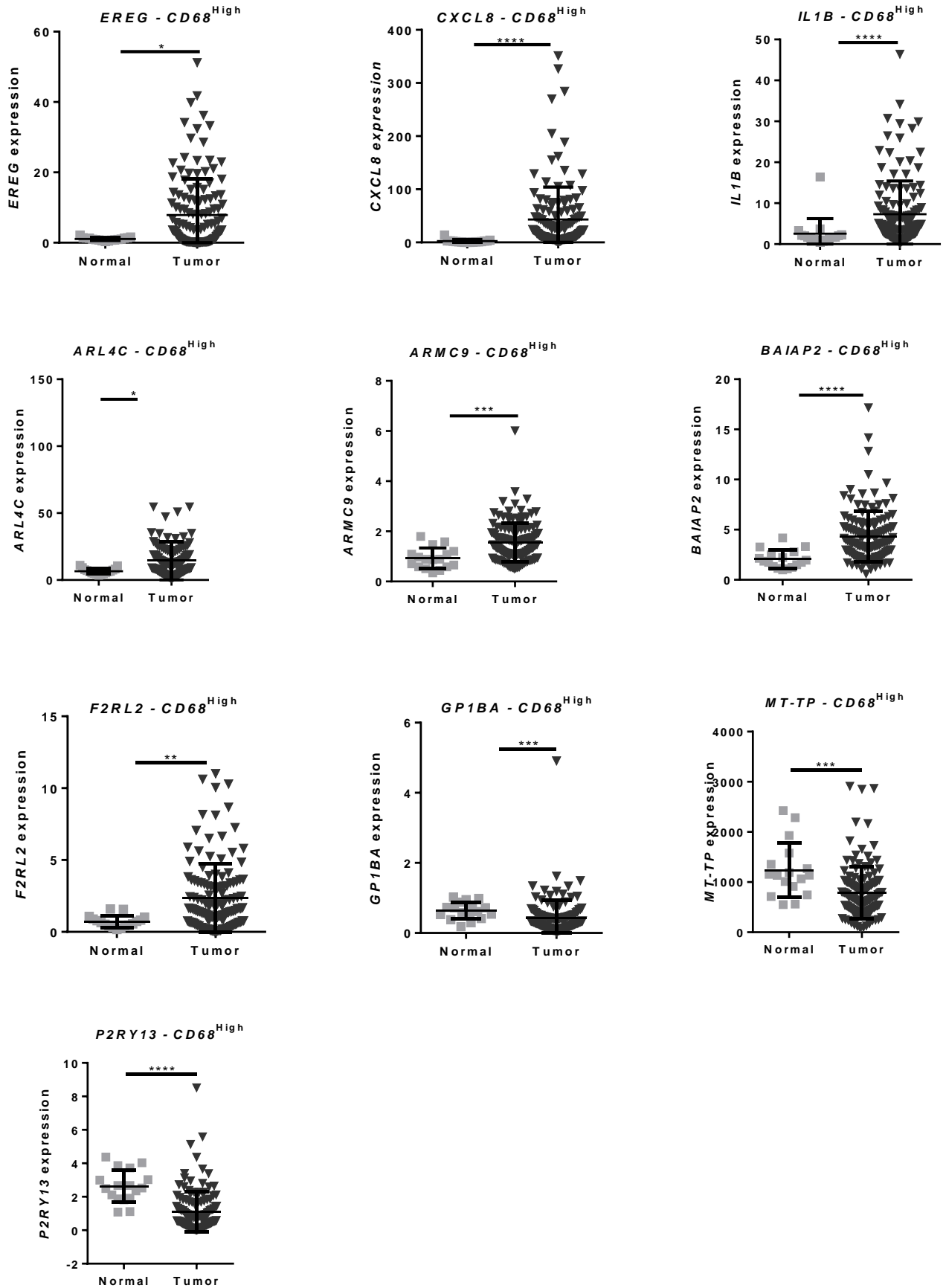
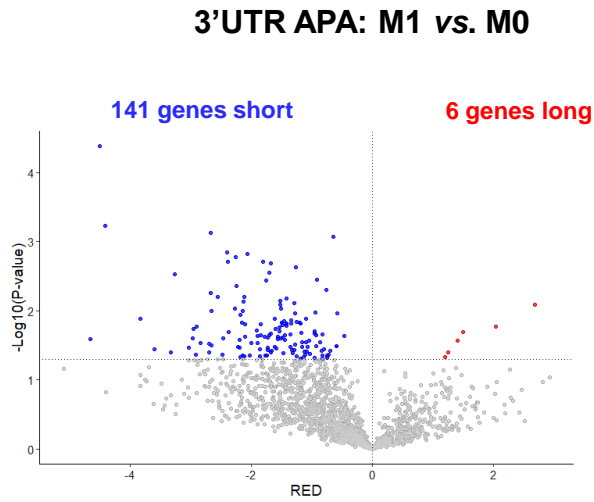
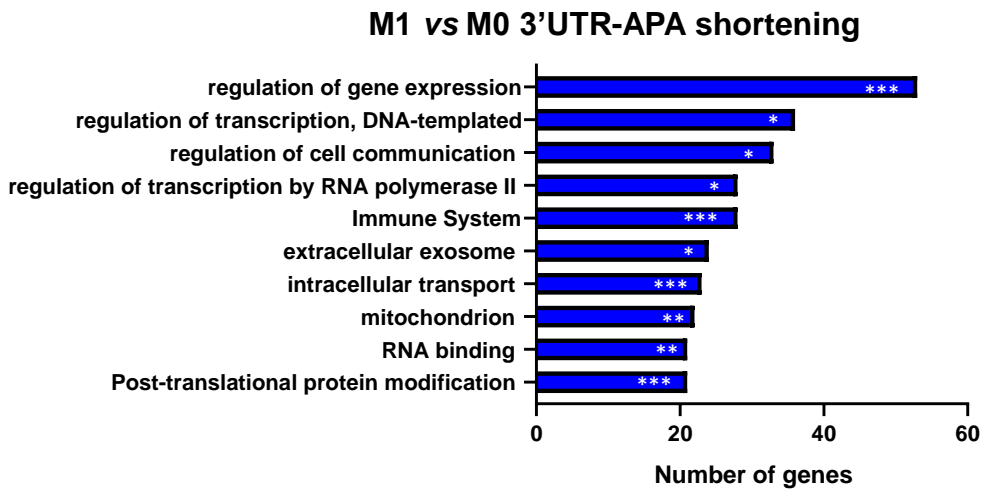


Figure 3 – M1 polarization induces 3'UTR-APA shortening and IPA

A



B



C

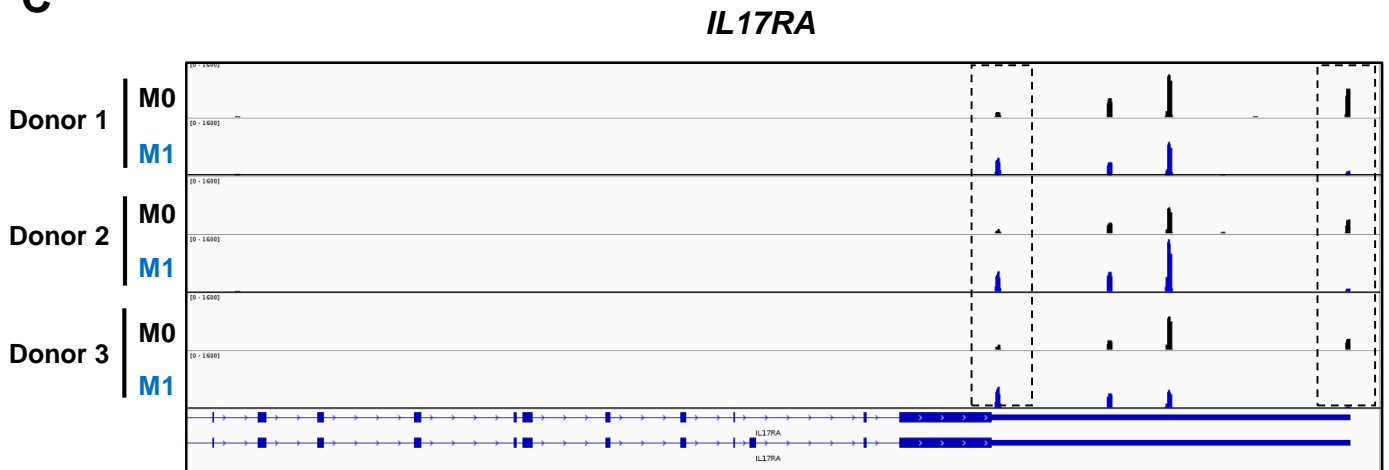
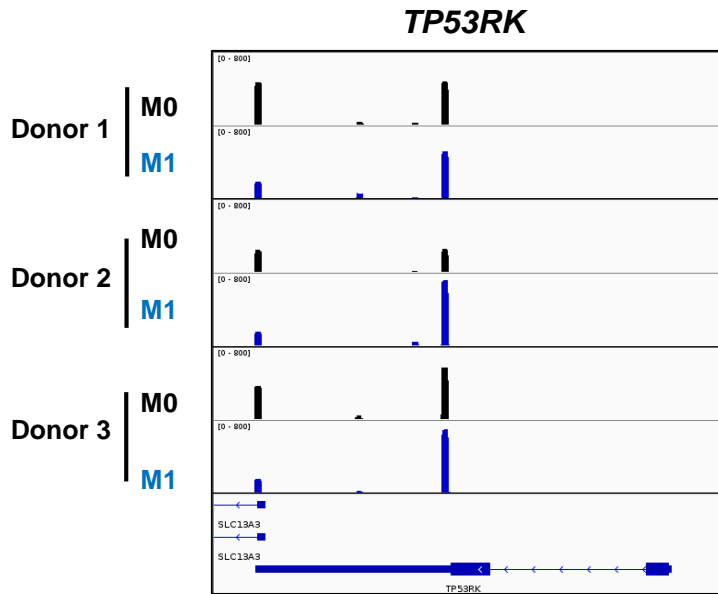


Figure 3 – M1 polarization induces 3'UTR-APA shortening and IPA

D



E

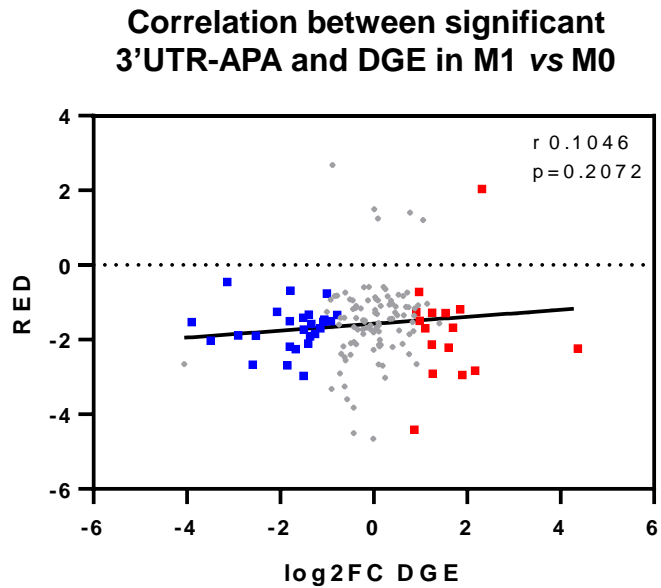
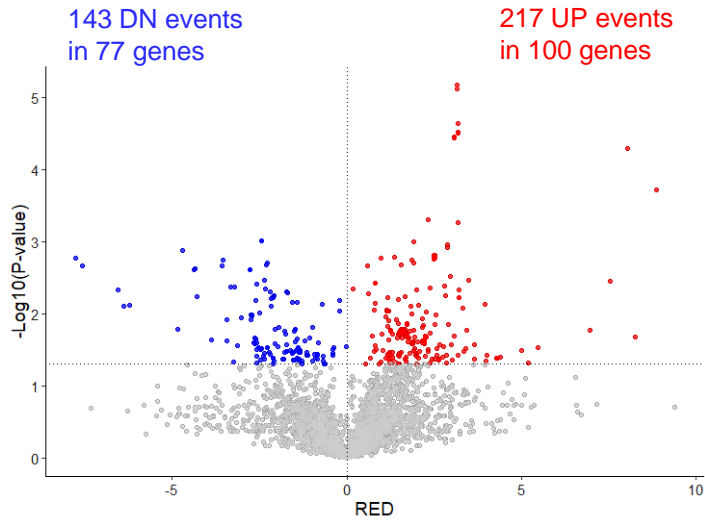


Figure 3 – M1 polarization induces 3'UTR-APA shortening and IPA

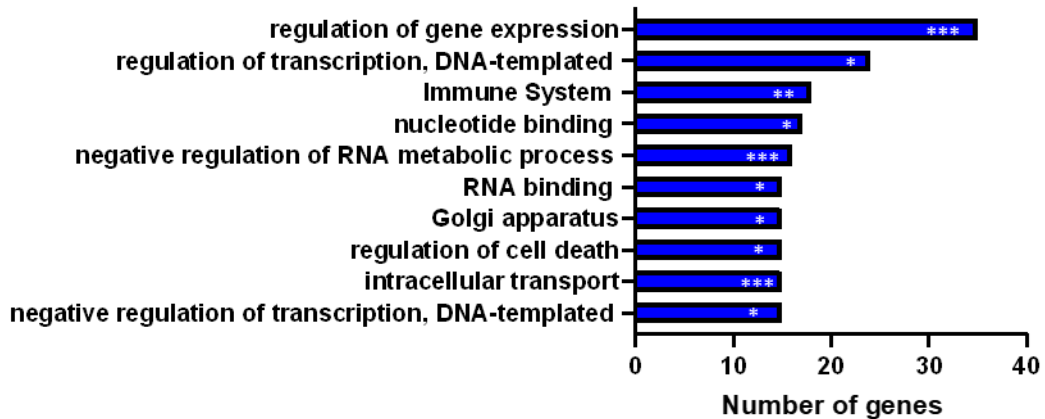
F

IPA: M1 vs. M0



G

Upregulated IPA in M1 vs M0



Downregulated IPA in M1 vs M0

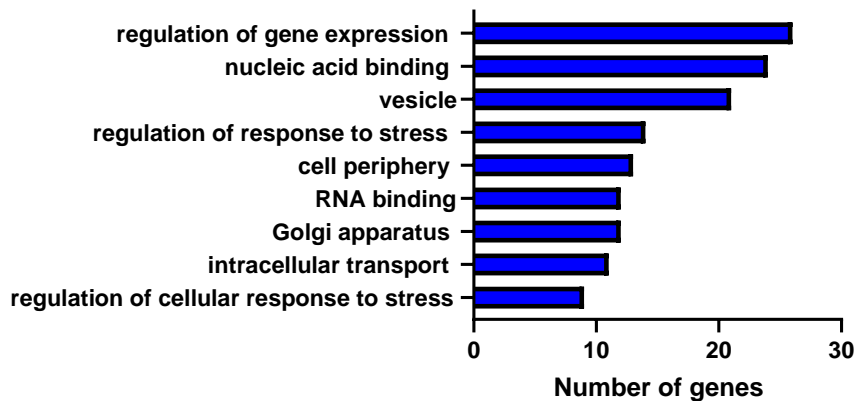
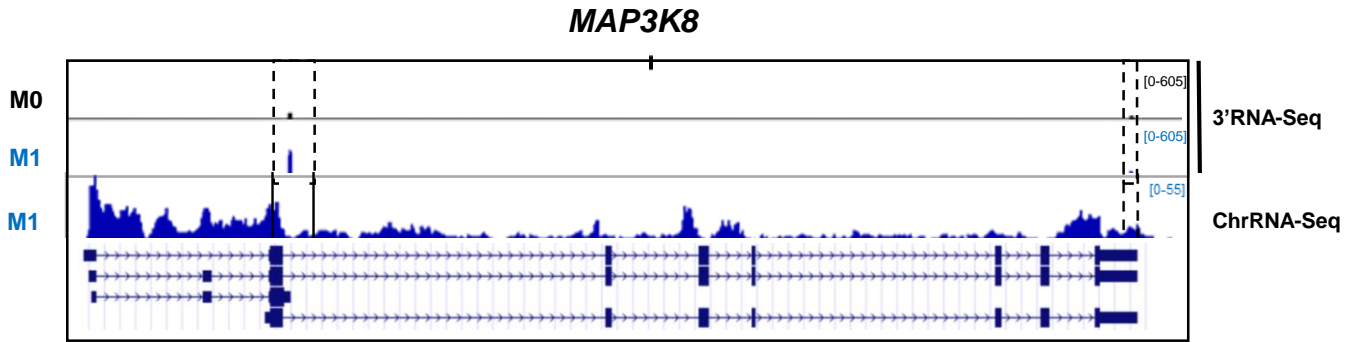
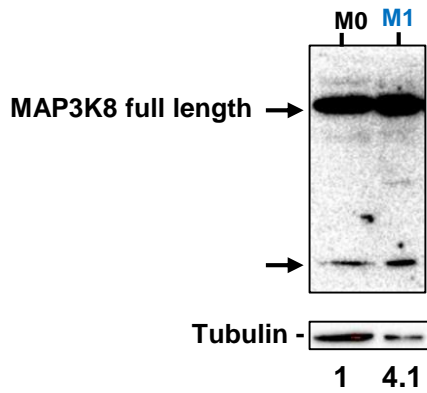


Figure 3 – M1 polarization induces 3'UTR-APA shortening and IPA

H



I



J

WDR33

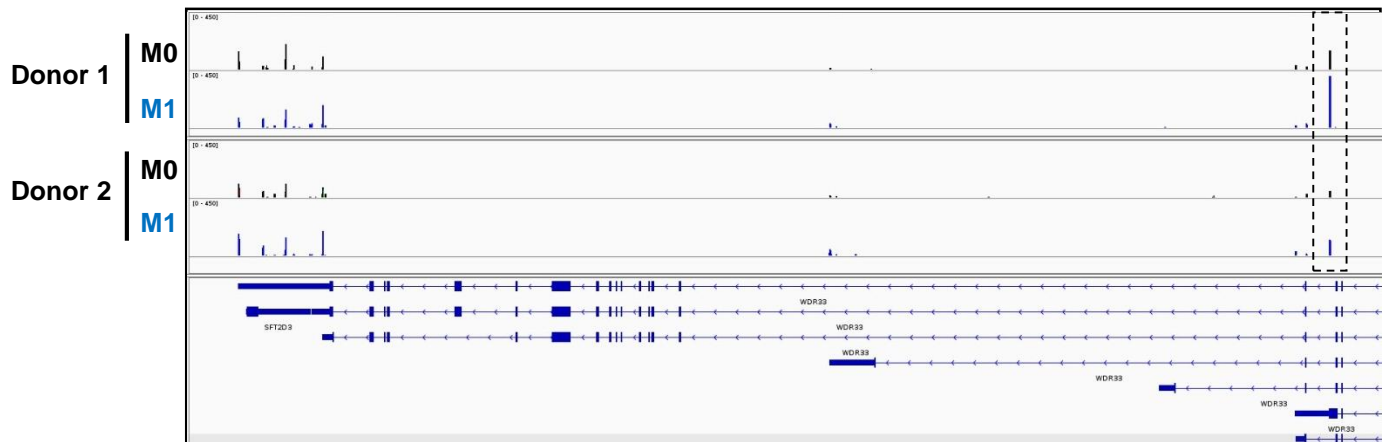


Figure 3 – M1 polarization induces 3'UTR-APA shortening and IPA

K

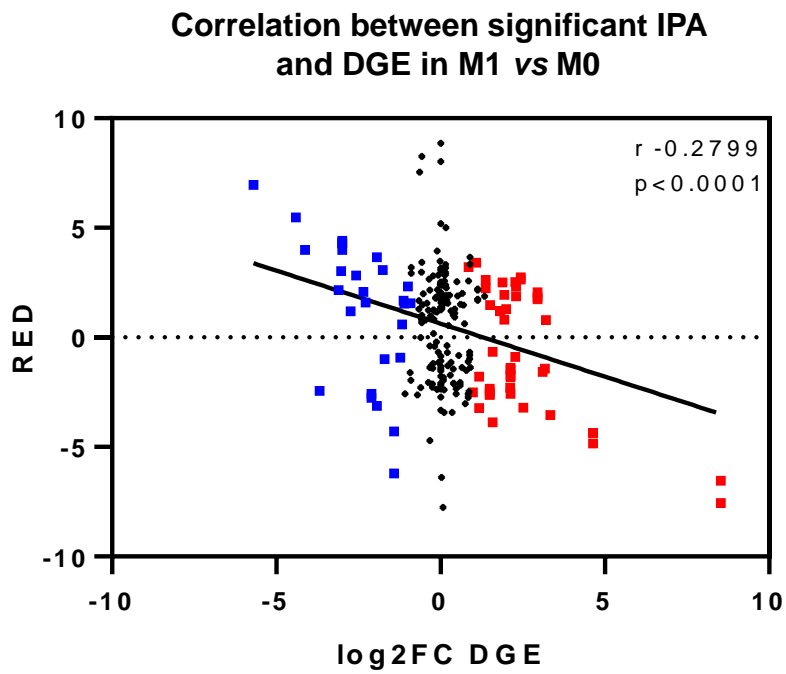


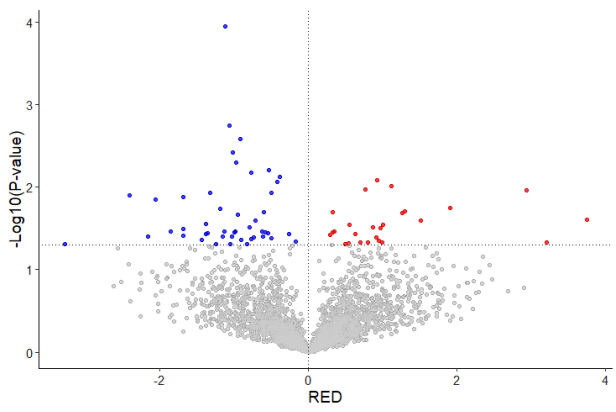
Figure 4 –CRC co-culture induces 3'UTR-APA and IPA changes in macrophages

A

3'UTR-APA: M1+RKO vs. M1

46 genes short

26 genes long

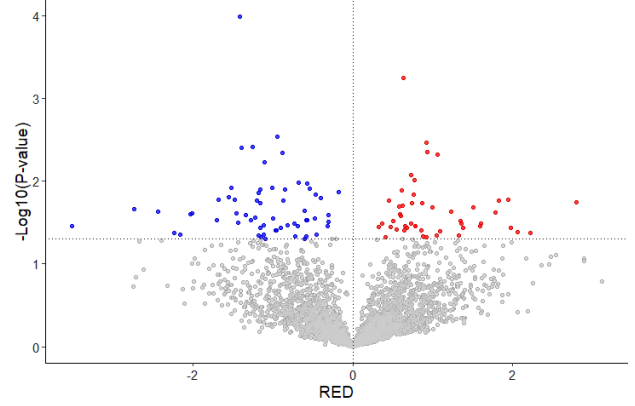


B

3'UTR-APA: M1+HCT15 vs. M1

60 genes short

48 genes long



C

PBX3

M1
M1 + HCT-15
M1 + RKO

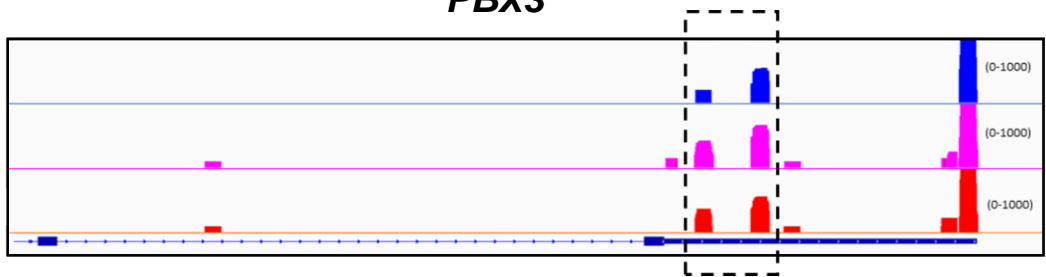


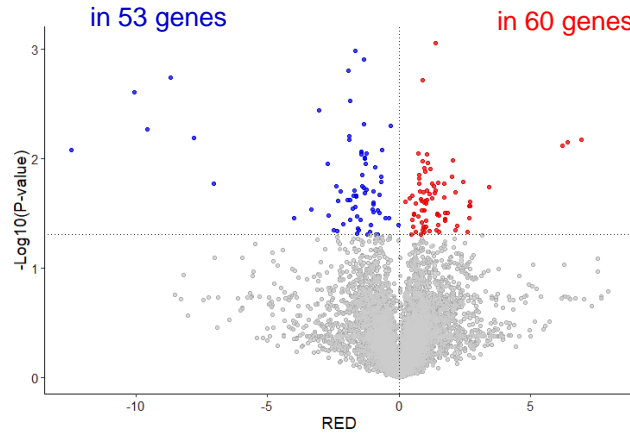
Figure 4 –CRC co-culture induces 3'UTR-APA and IPA changes in macrophages

D

IPA: M1 + RKO vs. M1

71 DN events
in 53 genes

80 UP events
in 60 genes

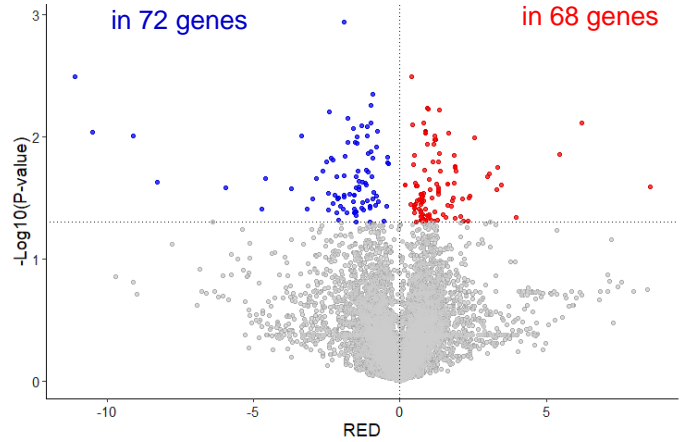


E

IPA: M1 + HCT15 vs. M1

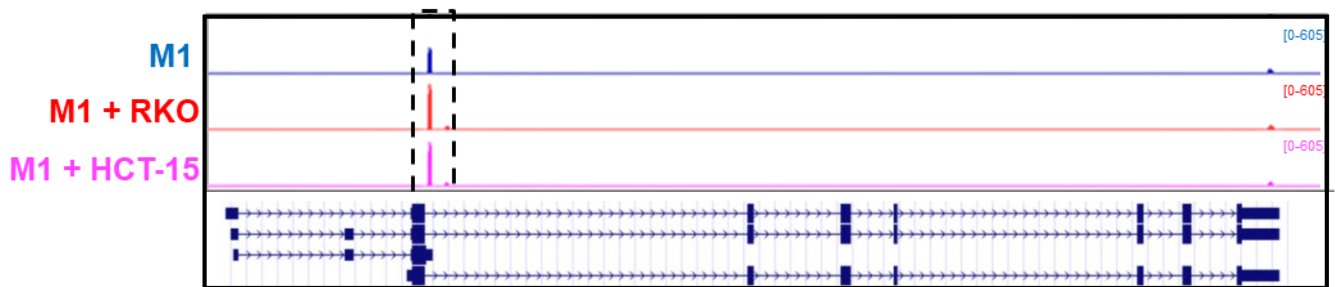
92 DN events
in 72 genes

113 UP events
in 68 genes



F

MAP3K8



G

WDR33

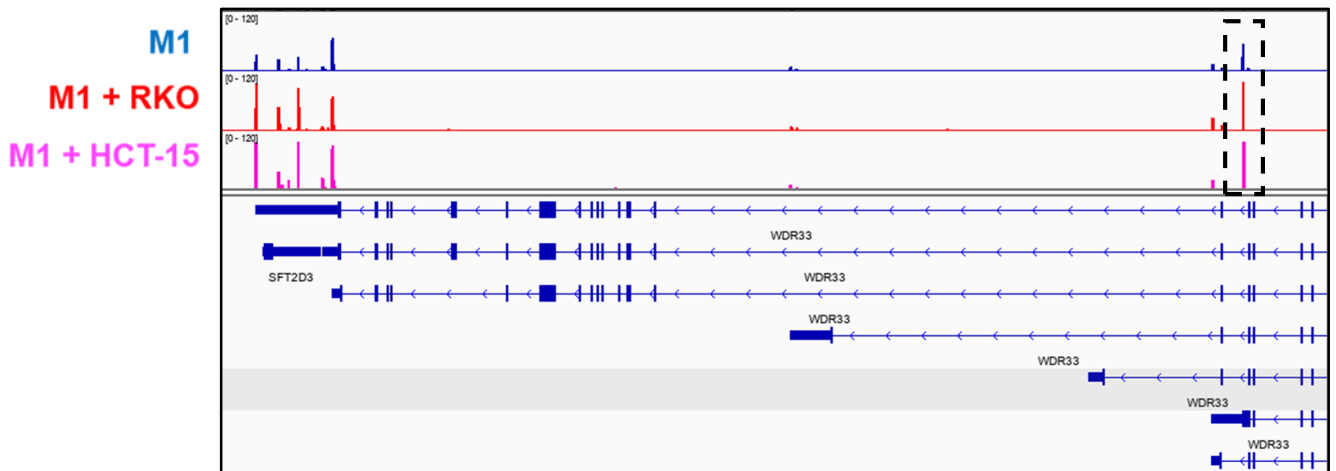
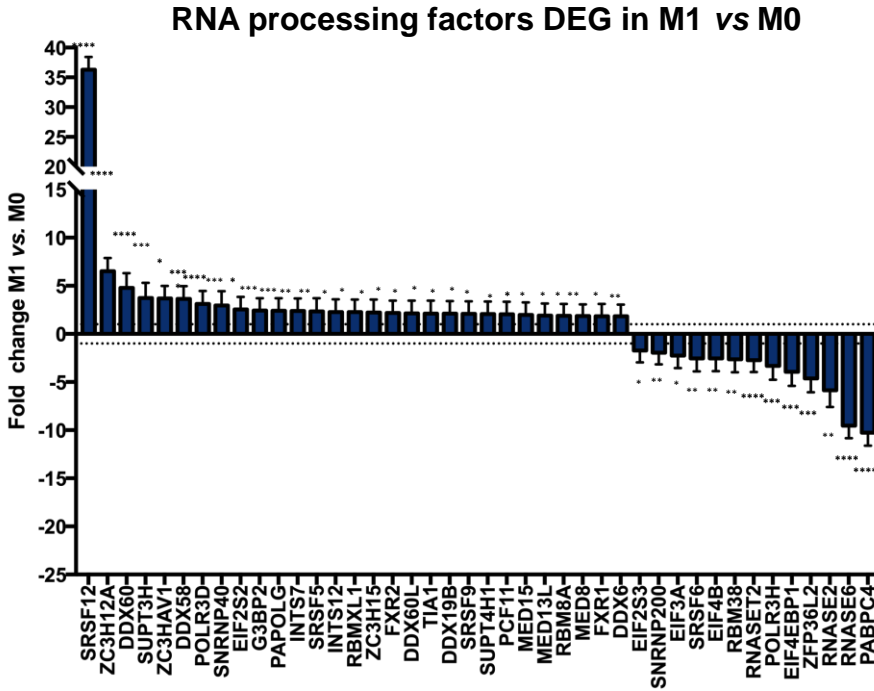
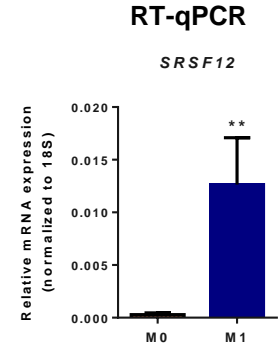


Figure 5 – SRSF12 modulates gene expression in pro-inflammatory macrophages

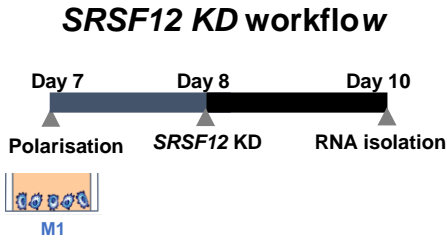
A



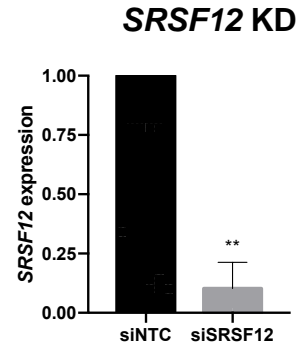
B



C



D



E

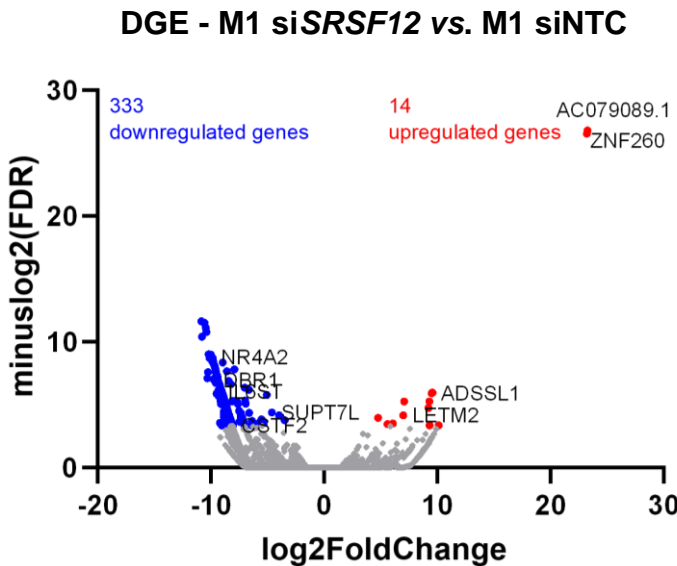


Figure 5 – SRSF12 modulates gene expression in pro-inflammatory macrophages

F

Downregulated genes in siSRSF12 vs siNTC

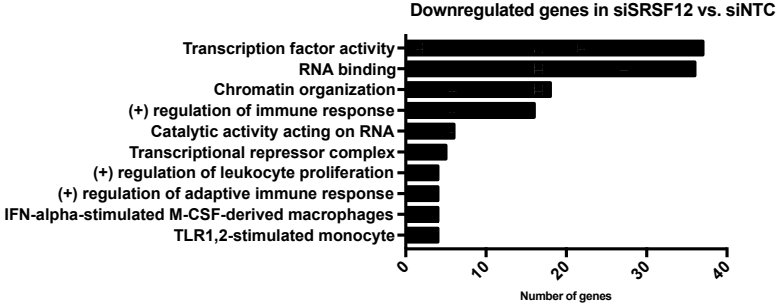
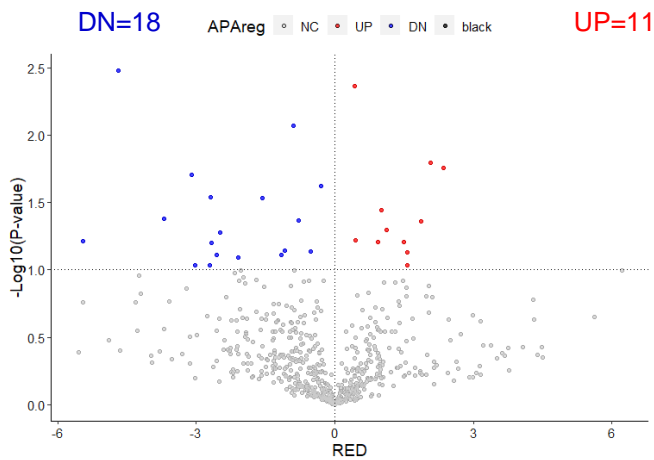


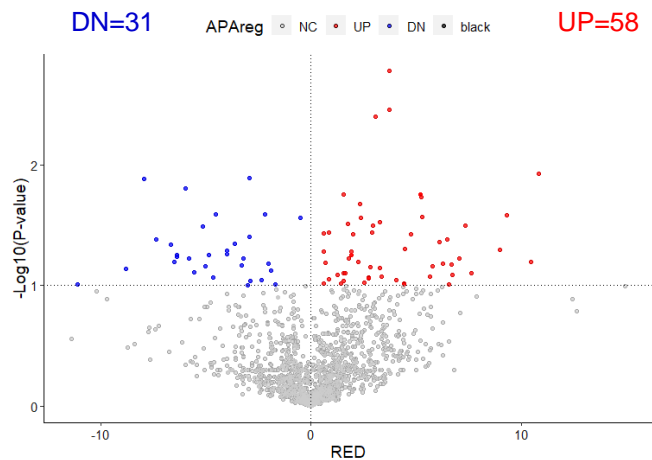
Figure 6 – *SRSF12* knockdown induces 3'UTR-APA and IPA changes in M1 macrophages

A

3'UTR-APA

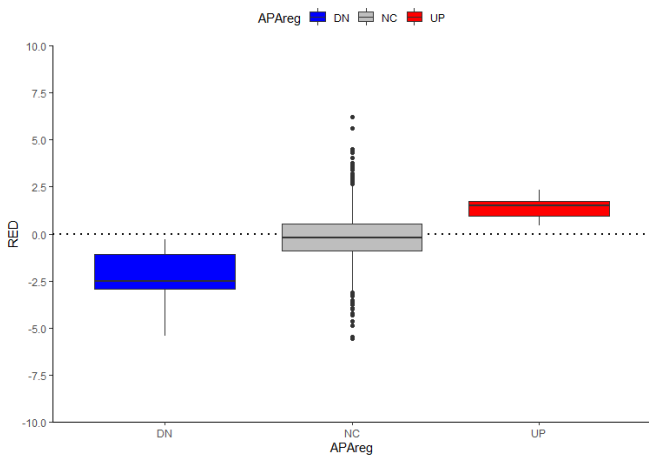


IPA



B

3'UTR-APA



IPA

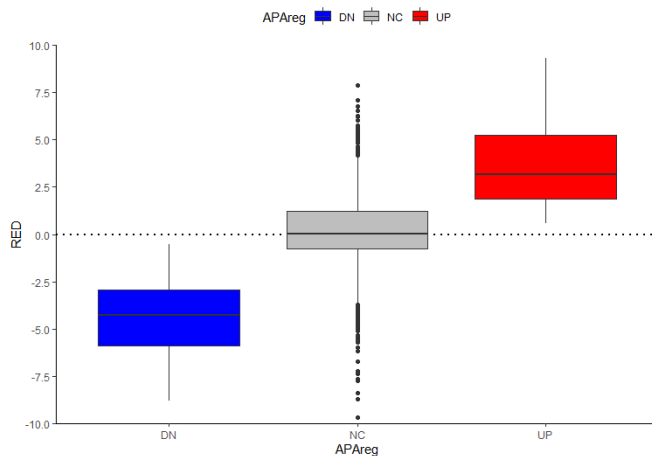
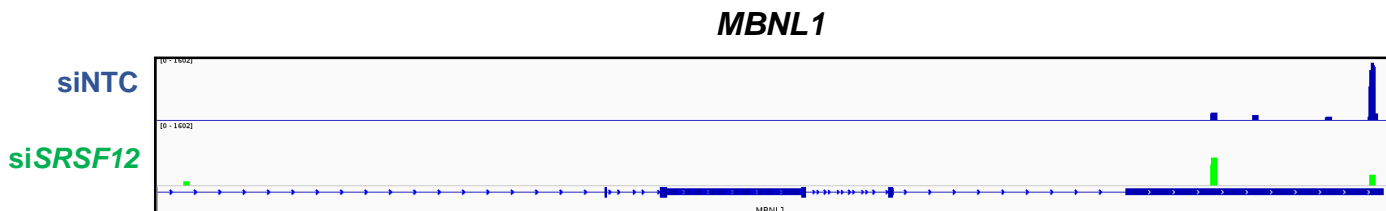


Figure 6 – *SRSF12* knockdown induces 3'UTR-APA and IPA changes in M1 macrophages

C



D

