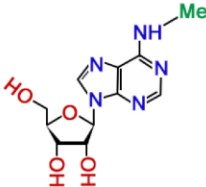


Table 1 The genes which were correlated with multiple RCD types.

RCD Types	Number	Genes
Apoptosis/Necroptosis/Pyroptosis	1	TNF
Apoptosis/Ferroptosis/Necroptosis	2	RIPK1, CAV1
Apoptosis/Autophagy/Necroptosis	4	FADD, FAS, SIRT2, CFLAR
Apoptosis/Ferroptosis/Pyroptosis	2	GPX4, IL6
Apoptosis/Autophagy/Pyroptosis	4	CASP8, CASP1, CASP4, CASP3
Apoptosis/Autophagy/Ferroptosis	8	BID, SQSTM1, DDIT3, MAPK8, RELA, TP53, CDKN1A, CDKN2A
Apoptosis/Necroptosis	7	FASLG, RIPK3, CYLD, DNM1L, BIRC2, BIRC3, CD14
Apoptosis/Pyroptosis	6	CASP6, GZMB, CASP9, PRKACA, IL1B, IL18
Apoptosis/Ferroptosis	13	CD44, HSPB1, HMOX1, ATF3, PIK3CA, AURKA, ATM, GCH1, JUN, TXNIP, VDAC2, SAT1, HMGB1
Apoptosis/Autophagy	23	BAK1, PEA15, IKBKB, CAPN2, BNIP1, ERBB2, CDKN1B, TNFSF10, BCL2, BCL2L1, CAPN1, HSPA8, PRKCD, PRKCQ, PRKAR1A, BNIP3L, CAPN10, DLC1, NFKB1, DAPK2, GAPDH, BAX, DAPK1
Ferroptosis/Necroptosis	1	TLR4
Autophagy/Pyroptosis	2	NLRC4, FOXO3
Autophagy/Ferroptosis	33	MAPK1, EGFR, IFNG, HSPA5, WIPI1, ULK1, MAPK3, HIF1A, RB1, MAPK9, NFE2L2, MTOR, BNIP3, MAP1LC3A, LAMP2, ULK2, ATG5, EIF2S1, ATG7, WIPI2, SIRT1, ATG4D, GABARAPL1, BECN1, ATG13, VEGFA, ATG16L1, GABARAPL2, SESN2, ATF4, ATG3, TP63, KLHL24

Table 2 The main mRNA regulators of m⁵C and m⁶A modification

Modification	Chemical structure	Writers	Readers	Eraser
m ⁶ A		METTL3	YTHDF1 YTHDF2 YTHDF3 YTHDC1 YTHDC2	FTO ALKBH5
m ⁵ C		NSUN2	ALYREF, YBX1	TET2