

Table S1. Other less significant [-log(p-value) < 6] canonical pathways for w/ TNF α dataset.

Canonical Ptw	$-\log_{10}$ (p-value)	z- Score	Molecules
Inflammasome	2.42	-2	IL1B,MYD88,NFKB2,PANX1
NF- κ B Signaling	1.59	-2.11	BMP2,BMPR1B,CARD10,FCER1G,IL1A,IL1B,IL1RN,IL33,KDR ,MAP2K6,MYD88,NFKB2,NFKBIA,NFBIE,PIK3C2B,PIK3R6,R ALA,RAP2A,RASD1,RELA,RELB,TGFA,TGFBR3,TNFAIP3,T NFRSF11A,TNFRSF1B,TNIP1,TRADD
IL-3 Signaling	2.92	-2.12	INPP5D,MAP2K1,PIK3C2B,PIK3R6,PPP3CC,PRKCD,RALA,R AP2A,RASD1
IL-1 Signaling	3.47	-2.33	ADCY4,IKBKE,IL1A,IRAK2,MAP2K6,MYD88,NFKB2,NFKBI A,NFKBIE,RELA,RELB
iNOS Signaling	4.69	-2.82	IKBKE,IRAK2,JAK3,MYD88,NFKB2,NFKBIA,NFKBIE,RELA,R ELB
IL-8 Signaling	5.13	-2.82	DIRAS3,HBEGF,IKBKE,IRAK2,KDR,LIMK2,MAP2K1,MMP9, NFKBIA,NFKBIE,PIK3C2B,PIK3R6,PRKCD,PTGS2,RALA,RA P2A,RASD1,RELA,TEK,VEGFA,VEGFC