

Supplementary Material

1 Supplementary Tables

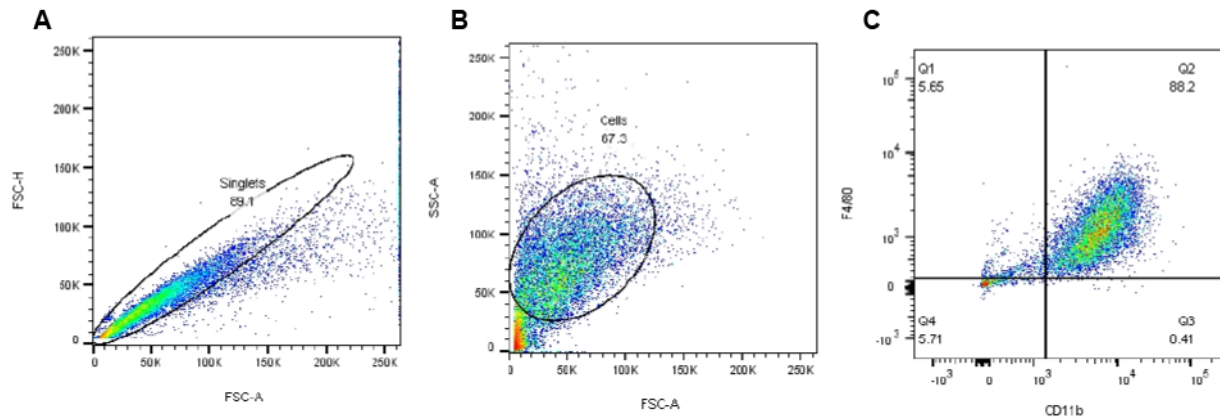
Supplementary Table 1. Upregulated genes in AC treated Sjs^S BMDMs within pathways identified in Figure 2B

Pathway	Input gene number/database gene numbers	Input genes
Cellular response to IFN β	36/47	Gbp2b, Gbp2, Irgm1, Ifi203, Ifi204, Ifi47, Ifit1, Ifit3, Ifnb1, Igtg, Irf1, Acod1, Stat1, Tgtp1, Trex1, Irgm2, Gbp3, Iigp1, Pnpt1, Gbp6, Gm4841, Ifi207, Ifi205, Ifi209, Gm4951, F830016B08Rik, Ifi211, Aim2, Gm5431, Gm12185, Ifi213, 9930111J21Rik1, Ifi208, Tgtp2, Mndal, Ifi206, Ifitm6
Response to IFN γ	52/137	Ciita, Socs1, Gbp2b, Gbp2, Gch1, H2-Aa, H2-Ab1, H2-Eb1, Irgm1, Cd74, Il12b, Il12rb1, Irf1, Acod1, Jak2, Gbp4, Mrc1, Nos2, Ccl12, Ccl2, Ccl22, Ccl3, Ccl4, Ccl5, Ccl7, Ccl8, Cx3cl1, Trim21, Stat1, Stxbp1, Tgtp1, Cd40, Zyx, Tlr2, Irgm2, Gbp3, Ccl24, Nmi, Kynu, Stx11, Gbp8, Parp9, Gbp6, Cdc42ep2, Il23r, Ifitm6, Gbp5, Gbp7, Gbp9, Nlrc5, Parp14, Gbp11
Positive regulation of cytokine production	78/452	C3, Casp4, Cd83, Camp, Cybb, F2r, F3, Flt4, Fzd5, Hpse, Ifi204, Cd74, Il10, Il12b, Il12rb1, Il15, Il18, Il1a, Il1b, Il6, Irf1, Jak2, Ltb, Mapkapk2, Mmp12, Myd88, Nr4a3, Eif2ak2, Ptgs2, Rasgrp1, Rel, Ccl2, Ccl3, Ccl4, Ccl5, Cx3cl1, Stat1, Tnf, Cd40, Tnfsf9, Tnfsf4, Clec5a, Tlr2, Klrk1, Icosl, Clec4e, Clec4n, Rsad2, Cd274, Rgcc, Peli1, Ifih1, Rnf135, Il33, Ulbp1, Zc3hav1, Dhx58, Tlr9, Nod1, Tlr3, Ripk2, Il23r, Il20rb, Cgas, Arid5a, Nlrp3, Ifi205, Gbp5, Ddx58, Malt1, Tarm1, Il27, Nod2, Tnfsf15, Scimp, Ifi211, Aim2, Mndal, Socs1, Dll1, Fcgr2b, Ifnb1, Acod1, Lag3, Gbp4, Nfkb1, Nos2, Pml, Srgn, Trim30a, Tnfai3, Trex1, Axl, Macir, Nmi, Isg15, Cd86, Cfh, Ednrb, Gbp2, Gch1, Cxcl1, Cxcl10, Mrc1, Nfkb1a, S100a9, Ccl12, Cxcl2, Slpi, Cmpk2, Irgm2, Cxcl11, Gbp6, Casp12, Fas, Gbp2b, Stat2, Tank, Gbp3, Nampt, Gbp7, Nox1, Daxx, Lpar1, Ldlr, Pim1, Dgat2, Insig1, Zfp366
Cytokine mediated signaling pathway	61/373	Casp4, Cd4, Socs1, Edn1, F3, Cxcl1, Irgm1, Cxcl10, Ifnb1, Cd74, Il12b, Il12rb1, Il13ra1, Il15, Il15ra, Il18, Il18rap, Il1a, Il1b, Il6, Irf1, Jak2, Lepr, Mmp12, Myd88, Nfkb1a, Robo1, Ccl12, Ccl2, Ccl22, Ccl3, Ccl4, Ccl5, Ccl7, Ccl8, Cxcl2, Cx3cl1, Stat1, Stat2, Tnf, Traf1, Trex1, Ugcg, Klf6, Axl, Irgm2, Cxcl11, Ccl24, Zbp1, Iigp1, Nmi, Rps6ka5, Il33, Parp9, Ripk2, Il23r, Ifitm6, Il20rb, Aim2, Nlrc5, Parp14, Fas, Flt4, Il10, Il2ra, Kdr, Ltb, Kitl, Cd40, Tnfsf8, Tnfsf9, Tnfsf10, Tnfsf4, Xcr1, Ccl2, Il21r, Tnfsf15, C3, Cflar, EphA4, F2r, Fcgr2b, Fgf1, Fpr2, Fzd5, Gcnt2, Lpar1, Htr2a, Icam1, Ighm, Mid1, Gadd45b, Eif2ak2, Rasgrp1, Trf, Gadd45g, Spry2, Tlr2, C1qtnf1, Cysltr2, Mlkl, Rapgef2, Tlr9, Nod1, Tlr3, Gpr55, Nox1, Tnfai3, Nod2, Scimp, Glipr2, Cxadr, S100a9, Sell, Cd177, Rhoh, Slamf8, Jaml, Acod1, Nfkb1, Saa3, Tank, Dusp2, Dusp16, Wnk2, Aida, Spred1, Mapkapk2, Nrg1, Ch25h, Ednrb, Itga4, Mmp14, Ptpro, Vcam1, 2610528A11Rik, P2ry12, Lrch1, Gch1, Dpysl2, Efna2, Fpr1, Kif5c, Lhx2, Nr4a3, B3gnt2, Flrt2, Gnb4, Adcy4, Alox12, Col18a1, Foxf1, Itgax, Ptgs2, Sod2, Tnfai6, Cd274, Rin2, Rgs16, Asap3, Cdk15

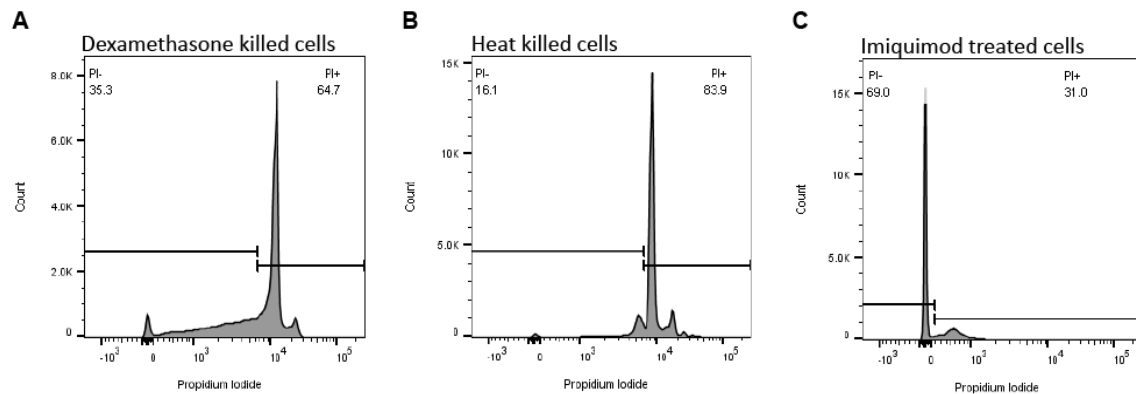
Supplementary Table 2. Continuation of upregulated genes in AC treated SJS^S BMDMs within pathways identified in Figure 2B

Pathway	Input gene number/database gene numbers	Input genes
Positive regulation of immune response	78/662	Bcl2a1d,C3,C4b,Cacnb3,Cd247,Cd4,Cfh,Fcgr1,Fcgr2b,Fpr2,Fpr1,Fzd5,H2-Ab1,Cfb,H2-M2,H2-T10,H2-T22,Irgm1,Ifi203,Ifi204,Ighm,Cd74,Il10,Il12b,Il12rb1,Il15,Il18,Il18rap,Il1b,Il6,Irf1,Acod1,Lag3,Lcp2,Mmp12,Nr4a3,Pnp,Rasgrp1,Stxbp1,Tnf,Cd40,Trex1,Tnfsf4,Usp12,Tlr2,Klrk1,Icosl,Irgm2,Rsad2,Zbp1,Cd274,Nmi,Rgcc,Cd177,Ifi35,Tas1,Il33,Ulbp1,Parp9,Nfkbiz,Tlr9,Ripk2,Il23r,Cgas,Arid5a,Nlrp3,Ifi205,Gbp5,Themis2,Ifi209,Malt1,Fyb2,Nod2,Ifi211,Aim2,Nlrc5,Ifi208,Mndal,Clec4e,Il20rb
TNF signaling pathway	32/107	Casp3,Casp7,Cflar,Socs3,Edn1,Fas,Cxcl1,Icam1,Cxcl10,Ifi47,Il15,Il1b,Il6,Mmp14,Nfkb1,Nfkbia,Ptgs2,Ccl12,Ccl2,Ccl5,Cxcl2,Cx3cl1,Tnf,Tnfaip3,Traf1,Vcam1,Map3k8,Rps6ka5,Mkl1,Creb5,Nod2,Gm5431,Bcl2a1a,Bcl2a1d,Ltb,Gadd45b,Myd88,Ccl4,Cd40,Trim25,Ddx58,Malt1,Lcn2,Mmp13,S100a9,Ccl7
Pattern recognition receptor signaling	34/157	Cd86,Irf1,Acod1,Mapkapk2,Myd88,Nfkbia,Trim30a,Tnf,Tnfaip3,Cd40,Tlr2,Irgm2,Clec4e,Rsad2,Nmi,Peli1,Ifi35,Tas1,Ifih1,Rnf135,Zc3hav1,Dhx58,Tlr9,Smpd13b,Nod1,Tlr3,Ripk2,Lacc1,Tifa,Ddx58,Ddx60,Tlr11,Nod2,Scimp
Myeloid leukocyte activation	37/241	Slc7a2,Cst7,Ctsc,Dnase1l3,Fcgr2b,Fpr2,Foxf1,Ifnb1,Il10,Il15,Il18,Il18rap,Jak2,Lcp2,Ldlr,Myd88,Nr4a3,Rasgrp1,Ccl5,Cx3cl1,Stxbp1,Tnf,Tnfsf9,Trex1,Tlr2,Klark1,Nampt,Nmi,Cd177,Ifi35,Batf2,Stx11,Rhoh,Il33,Ulbp1,Tlr9,Tlr3,Ptgs2,Nupr1,Cd200r4

2 Supplementary Figures



Supplementary Figure 1. Example of BMDM purity after seven days differentiation. Bone marrow cells were collected from femur and tibia from mice ranging from 7-12 weeks. Cells were differentiated into macrophages by seven days of incubation with media supplemented with 20% L929 supernatant. BMDM purity was assessed by flow cytometry at day 7. **A)** BMDMs were gated for singlets, **B)** FSC and SSC, **C)** approximately 90% of cells were double positive for macrophage markers CD11b and F4/80 by seven days.



Supplementary Figure 2. Evaluation of cell death. **A)** Thymocytes were evaluated for propidium iodide positivity via flow cytometry following 6 hour treatment with 2 μ M dexamethasone. **B)** Similar analysis was performed on thymocytes killed by incubation for 20 minutes at 60°C. **C)** BMDMs were also evaluated for propidium iodide positivity following treatment with 30 μ g/mL of imiquimod.