Supporting Information for:

Monocytes maintain central nervous system homeostasis following helminth-induced inflammation.

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Running title: Helminth-induced monocytes prevent neuroinflammation.

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QuantiTech primer assay information

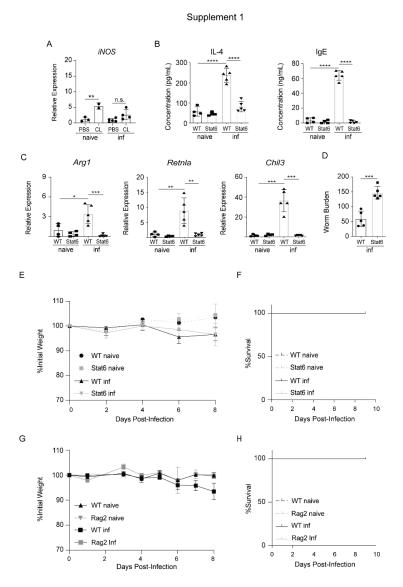


Figure S1: Type 2 cytokine responses and adaptive immunity are not required for host survival post-Trichinella spiralis infection. (A) iNOS expression levels in the intestine were determined in naive and T. spiralis infected animals that were treated with PBS- or clodronate-loaded (CL) liposomes. Results are representative of at least 2 independent experiments with at least 3 biological replicates for test groups and 2-3 biological replicates for naive controls. Wild type (WT) or STAT6KO (Stat6) mice were infected with T. spiralis and sacrificed on 8 days post-infection (dpi). Mesenteric lymph node (mLN) cells were stimulated with anti-CD3 and anti-CD28 for 72 hours. (B) IL-4 levels from the supernatants of stimulated mLN cells and IgE levels from the plasma (1:50 dilution) were evaluated via ELISA. (C) Intestinal expression of M2associated markers was evaluated via RT-qPCR. (D) Intestinal worm burden was evaluated. (E) Weights and (F) mortality were tracked throughout the course of the infection. WT or RAG2KO (Rag2) mice were infected with T. spiralis and sacrificed on 8 dpi. (G) Weights and (H) mortality were tracked throughout the course of the infection. All panels involving STAT6KO mice are representative of at least 3 independent experiments with at least 3 biological replicates per group per experiment. Statistical analysis was performed using Student's t-test. *, p < 0.05; **, p < 0.01; ***, p < 0.001; ****, p < 0.0001; n.s., not significant. For panel (G), statistics are comparing WT inf to Rag2KO inf. Error bars represent ±SD. inf, T. spiralisinfected.

Supplement 2

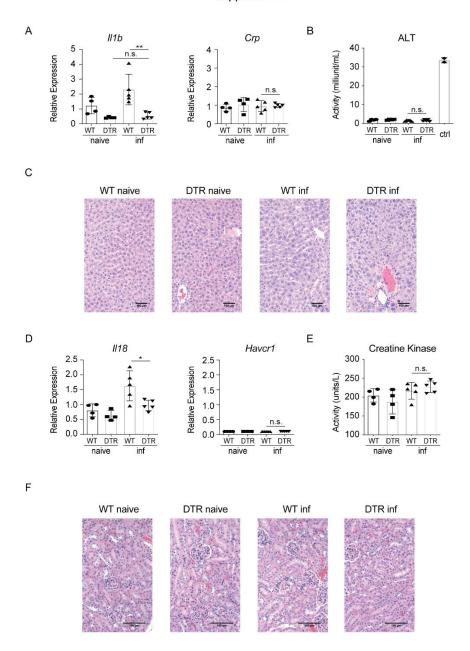


Figure S2: Increased morbidity and mortality exhibited by monocyte-depleted mice following T. spiralis infection are not due to liver or kidney injury or dysfunction. Wild type (WT) and CCR2-DTR (DTR) mice were infected with T. spiralis and treated with diphtheria toxin (DT) intraperitoneally every other day. Mice were sacrificed 8 dpi. (A) RNA was extracted from liver tissue, and expression of markers associated with liver injury were evaluated via RT-qPCR. (B) Plasma levels of alanine aminotransferase (ALT) were quantified. (C) H&E staining of liver sections. (D) RNA was extracted from kidney tissue, and expression of markers associated with kidney injury were evaluated via RT-qPCR. (E) Plasma levels of creatine kinase were quantified. (F) H&E staining of kidney sections. Results are representative of at least 2 independent experiments with at least 3 biological replicates per group per experiment. Statistical analysis was performed using Student's t-test. *, p < 0.05; **, p < 0.01; n.s., not significant. Error bars represent \pm SD. inf, T. spiralis-infected; ctr, positive control.

Supplement 3

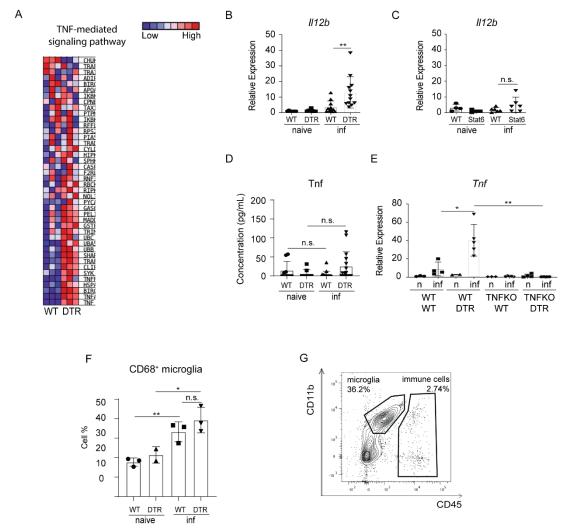


Figure S3: Loss of CCR2+ monocytes results in a proinflammatory signature in the brain. Wild type (WT), monocyte-depleted (DTR), STAT6KO (Stat6), TNFKO, and monocyte-depleted TNFKO mice (TNFKO DTR) mice were infected with *T. spiralis*. Mice were sacrificed 8 dpi. (A) Gene sequencing enrichment analysis (GSEA) heat map for TNF-mediated signaling pathway comparing infected WT and infected DTR mice. RNA was extracted from whole brain, and *II12b* expression was evaluated in (B) monocyte-depleted and (C) STAT6KO mice compared to control mice following infection. (D) Serum TNF from naive and infected WT and DTR mice was measured by ELISA (pooled from 4 independent experiments). (E) RNA was extracted from the whole brains of WT, DTR, TNFKO, and TNFKO DTR mice following infection, and *Tnf* expression was evaluated via RT-qPCR. (F) CD68 expression levels were evaluated by flow cytometric analysis on microglia from naive and infected WT and monocyte-deplete mice. (G) Gating strategy of microglia (CD45^{mid}CD11b+) compared to immune cells (CD45^{hi}). Results are representative of at least 2 independent experiments with at least 3 biological replicates for test groups and 2-3 biological replicates for naive controls. Statistical analysis was performed using Student's t-test. *, p < 0.05; **, p < 0.01; n.s., not significant. Error bars represent SD. inf, *T. spiralis*-infected. n, naive.

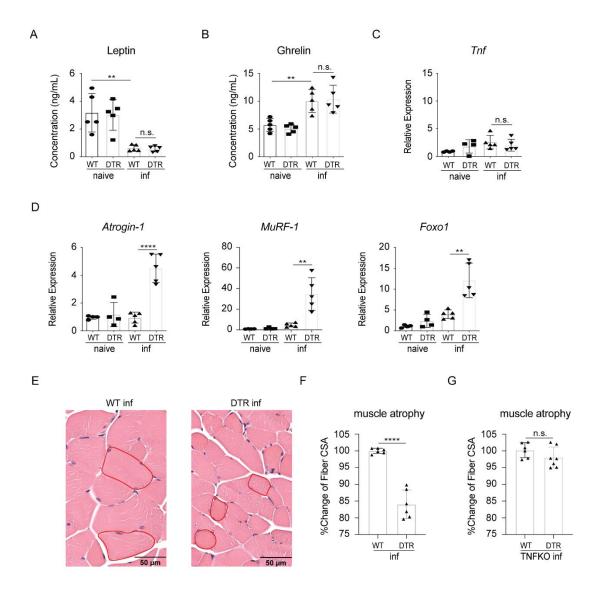


Figure S4: Expression of proinflammatory cytokines in the brain is associated with muscle atrophy. Wild type (WT) or CCR2-DTR (DTR) mice were treated with diphtheria toxin intraperitoneally every other day and sacrificed 8 dpi. Plasma (A) leptin and (B) ghrelin levels were evaluated. RNA from gastrocnemius tissue was extracted, and expression of (C) proinflammatory- and (D) atrophy-associated markers were evaluated via RT-qPCR. H&E staining of gastrocnemius tissue was evaluated via (E) microscopy and (F) cross-sectional areas (CSA) was quantified. Representative muscle fibers are encircled in red. (G) The CSA of gastrocnemius muscle fibers was quantified in infected TNFKO mice. Panels are representative of at least 3 independent experiments with at least 3 biological replicates per group per experiment. Statistical analysis was performed using Student's t-test. **, p < 0.01; *****, p < 0.0001; n.s., not significant. Error bars represent SD. inf, *T. spiralis*-infected.



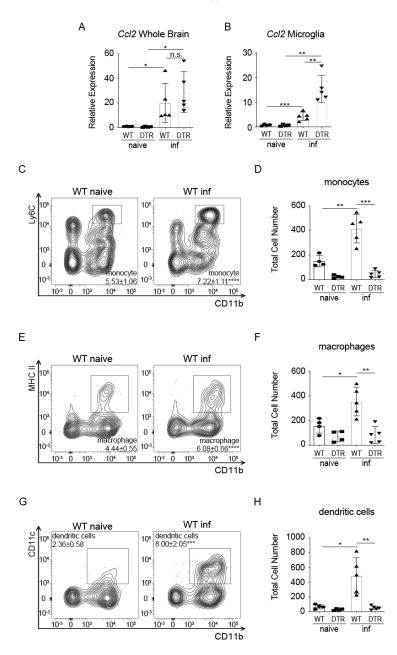


Figure S5: CCR2+ monocyte populations increase in the brain following *Trichinella* **infection.** wild type (WT) or DTR mice were treated with DT (i.p.) every other day and sacrificed 8 dpi. RNA from **(A)** whole brain or **(B)** sort-purified microglia was extracted, and expression of *Ccl2* was evaluated via RT-qPCR reaction. Single cell suspensions were generated from brain tissue and evaluated via flow cytometry. Gating strategy and total cell number of **(C,D)** monocytes (CD3·CD19·Ly6G·MHCII·CD11c⁻ cells) **(E,F)** macrophages (gated on CD3·CD19·Ly6G·CD11c⁻ cells), and **(G,H)** dendritic cells (gated on CD3·CD19·Ly6G⁻ cells). Numbers in cytometry plots represent mean percentages (±SD) of cells out of CD45^{hi} cells, and statistics are comparing WT naive and WT *T. spiralis*-infected mice. All panels are representative of at least 3 independent experiments with at least 3 biological replicates per group per experiment. Statistical analysis was performed using Student's t-test. *, p < 0.05; **, p < 0.01; ****, p < 0.001; *****, p < 0.0001; n.s., not significant. Error bars represent ±SD. inf, *T. spiralis*-infected.

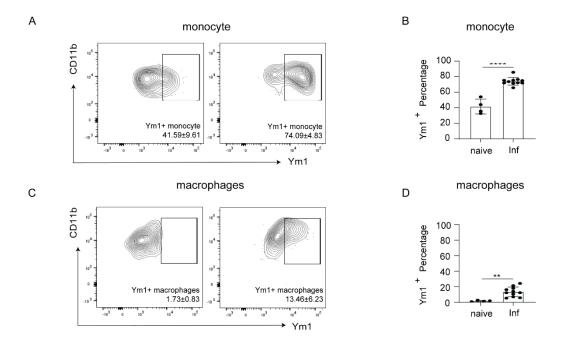


Figure S6: Intracellular staining of Ym1 in infected mouse brain. (A) Representative gating of intracellular staining of Ym1 in brain monocytes from infected WT mice 8 dpi. (B) Ym1+ monocyte percentage in brains of infected WT mice 8 dpi. (C) Representative gating of intracellular staining of Ym1 in WT infected brain macrophages 8 dpi. (D) Ym1+ macrophage percentage in brains of infected WT mice 8 dpi. Results are representative of at least 2 independent experiments with at least 3 biological replicates per group per experiment. Statistical analysis was performed using Student's t-test. *, p < 0.05; **, p < 0.01; n.s., not significant. Error bars represent SD. inf, *T. spiralis*-infected.

Table 1: Upregulated (green, fold change > 1.5) and downregulated (red, fold change < -1.5) genes in infected wild type versus infected monocyte-depleted mice.

Name	ENSEMBL	Log ₂ fold change	Fold change	FDR p-value
Ear2	ENSMUSG00000072596	5.304526	39.52042	7.37E-10
Fam205a3	ENSMUSG00000093996	5.005028	32.11173	3.94E-10
Gm26718	ENSMUSG00000097367	3.269005	9.63981	1.29E-05
Gm6436	ENSMUSG00000061330	3.231516	9.392544	0.029057
H2-Aa	ENSMUSG00000036594	2.935299	7.649147	0
Ccr2	ENSMUSG00000049103	2.770431	6.823118	0
H2-Eb1	ENSMUSG00000060586	2.762616	6.786255	0
Sirpb1c	ENSMUSG00000074677	2.670894	6.368236	0.001775
H2-Ab1	ENSMUSG00000073421	2.577319	5.968296	0
Chil3	ENSMUSG00000040809	2.304529	4.940062	1.63E-09
Gm48283	ENSMUSG00000114436	2.297991	4.917724	0.000312
Gm11427	ENSMUSG00000083161	2.249898	4.756491	0.008457
Gm26964	ENSMUSG00000098196	2.101937	4.292852	0.023004
Plbd1	ENSMUSG00000030214	2.025178	4.070421	4.65E-09
Gm15929	ENSMUSG00000086032	1.954938	3.876994	0.001204
F10	ENSMUSG00000031444	1.890935	3.708755	0.009371
Ccr7	ENSMUSG00000037944	1.656662	3.152862	0.001896
Retnla	ENSMUSG00000061100	1.449134	2.730442	1.31E-05
Cd74	ENSMUSG00000024610	1.280404	2.42907	0
Gm10645	ENSMUSG00000074228	1.153722	2.224871	4.47E-05
Plac8	ENSMUSG00000029322	1.05925	2.083848	0.039914
Spn	ENSMUSG00000051457	1.017955	2.025047	0.035097
1700016P03Rik	ENSMUSG00000085609	0.876306	1.835669	1.9E-06
Mgl2	ENSMUSG00000040950	0.799879	1.740955	0.01748
Gm42047	ENSMUSG00000110631	0.774176	1.710212	2.6E-05
Xlr3b	ENSMUSG00000073125	0.756189	1.689023	2.41E-07
Btg2	ENSMUSG00000020423	0.737627	1.667431	1.14E-08
Tsc22d2	ENSMUSG00000027806	0.729865	1.658484	0
Npas4	ENSMUSG00000045903	0.679316	1.60138	0.000333
Hba-a1	ENSMUSG00000069919	0.653162	1.572611	1.6E-06
Arc	ENSMUSG00000022602	0.632251	1.549981	4.17E-07
Ctla2a	ENSMUSG00000044258	-0.585563	-1.500624	0.021471
Tgm2	ENSMUSG00000037820	-0.586866	-1.50198	1.46E-05
Relb	ENSMUSG00000002983	-0.590557	-1.505828	0.000128
Vwf	ENSMUSG00000001930	-0.597701	-1.513303	0.003516
Slfn2	ENSMUSG00000072620	-0.60057	-1.516315	0.030876
Ikbke	ENSMUSG00000042349	-0.600756	-1.516511	0.038138
Bcl2a1b	ENSMUSG00000089929	-0.60232	-1.518156	0.010206
Ncf4	ENSMUSG00000071715	-0.604757	-1.520723	0.043844
Cxcl16	ENSMUSG00000018920	-0.608435	-1.524604	5.72E-05

Pim1 ENSMUSG00000024014 -0.627263 -1.544632 0.0238 Adm ENSMUSG00000003790 -0.638448 -1.556654 0.02348 Gadd46b ENSMUSG00000015312 -0.638487 -1.556696 1.49E-11 Lcp2 ENSMUSG00000074796 -0.64871 -1.567766 0.01575 Slc4a11 ENSMUSG00000038007 -0.652691 -1.572098 0.00350 Acer2 ENSMUSG00000038113 -0.652691 -1.572098 0.00350 Socs3 ENSMUSG0000002811 -0.663012 -1.572448 0.00350 Gm2260 ENSMUSG0000002813 -0.669275 -1.590274 8.53E-00 Gm2260 ENSMUSG00000024737 -0.675015 -1.596663 0.34893 Slc15a3 ENSMUSG00000021025 -0.67917 -1.601218 9.17E-00 Igs6 ENSMUSG00000021903 -0.688406 -1.611502 2.7E-00 Fas ENSMUSG00000024778 -0.706413 -1.63148 0.00256 C5ar1 ENSMUSG0000007349 -0.766413 -1.63148 0.00256 <tr< th=""><th></th><th></th><th></th><th></th><th></th></tr<>					
Adm	Grrp1	ENSMUSG00000050105	-0.612446	-1.52885	0.010562
Gadd45b ENSMUSG00000015312 -0.638487 -1.556696 1.49E-1 Lcp2 ENSMUSG00000002699 -0.639582 -1.557768 1.06E-0 SIc4a11 ENSMUSG00000074796 -0.64871 -1.567766 0.01575 Fkbp5 ENSMUSG00000024222 -0.648825 -1.567891 3.32E-0 Acer2 ENSMUSG00000038007 -0.652691 -1.572448 0.00356 Socs3 ENSMUSG00000028311 -0.652072 -1.590274 8.53E-0 Gm2260 ENSMUSG00000024737 -0.669275 -1.590274 8.53E-0 Slc15a3 ENSMUSG00000021055 -0.674341 -1.596613 2.03E-0 Nfkbia ENSMUSG00000021055 -0.67917 -1.601218 9.17E-0 Igs16 ENSMUSG00000021903 -0.688406 -1.611502 2.7E-0 Fas ENSMUSG00000024778 -0.705039 -1.630189 0.00184 H2-Q6 ENSMUSG00000049130 -0.713506 -1.639784 1.53E-0 Sh3tc1 ENSMUSG0000002553 -0.721401 -1.648783 0.00073	Pim1	ENSMUSG00000024014	-0.627263	-1.544632	0.00239
Lcp2	Adm	ENSMUSG00000030790	-0.638448	-1.556654	0.029484
Sic4a11	Gadd45b	ENSMUSG00000015312	-0.638487	-1.556696	1.49E-11
Fkbp5	Lcp2	ENSMUSG00000002699	-0.639582	-1.557878	1.06E-05
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Fas ENSMUSG00000024778 -0.705039 -1.630189 0.001848 H2-Q6 ENSMUSG00000073409 -0.706413 -1.631742 0.002954 C5ar1 ENSMUSG00000049130 -0.713506 -1.639784 1.53E-06 Sh3tc1 ENSMUSG00000024066 -0.726106 -1.648783 0.000793 Xdh ENSMUSG00000025701 -0.731389 -1.660237 0.01235 Cdkn1a ENSMUSG00000023067 -0.737348 -1.667109 9.2E-05 Birc3 ENSMUSG00000032000 -0.742136 -1.67265 1.85E-06 Ier3 ENSMUSG000000032952 -0.798933 -1.739814 6.02E-06 Runx1 ENSMUSG000000022952 -0.798933 -1.739814 6.02E-06 Srarp ENSMUSG000000034855 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000025491 -0.860342 -1.815469 0.00302 Infrim1 ENSMUSG00000034533 -0.98906 -1.877664 0.02240 Th/g3 ENSMUSG00000034533 -0.908906 -1.877664 0.02240	Igsf6	ENSMUSG00000035004	-0.688357	-1.611448	0.018079
H2-Q6	Galnt15	ENSMUSG00000021903	-0.688406	-1.611502	2.7E-05
C5ar1 ENSMUSG00000049130 -0.713506 -1.639784 1.53E-06 Sh3tc1 ENSMUSG00000036553 -0.721401 -1.648783 0.000792 Xdh ENSMUSG00000024066 -0.726106 -1.654168 0.001513 Alox5 ENSMUSG00000025701 -0.731389 -1.660237 0.01235 Cdkn1a ENSMUSG00000023067 -0.737348 -1.667265 1.85E-06 Birc3 ENSMUSG00000032000 -0.742436 -1.67265 1.85E-06 Runx1 ENSMUSG0000003541 -0.742495 -1.673066 4.55E-08 Runx1 ENSMUSG0000002952 -0.798933 -1.739814 6.02E-08 Srarp ENSMUSG0000007637 -0.801233 -1.74259 0.045678 Cxcl10 ENSMUSG00000028862 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000025491 -0.860342 -1.815469 0.00302 Tnfaip2 ENSMUSG00000032591 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG00000034533 -0.908909 -1.877664 0.022408	Fas	ENSMUSG00000024778	-0.705039	-1.630189	0.001848
Sh3tc1 ENSMUSG00000036553 -0.721401 -1.648783 0.000793 Xdh ENSMUSG00000024066 -0.726106 -1.654168 0.001513 Alox5 ENSMUSG00000025701 -0.731389 -1.660237 0.012357 Cdkn1a ENSMUSG00000023067 -0.737348 -1.667109 9.2E-08 Birc3 ENSMUSG00000032000 -0.742136 -1.67265 1.85E-06 ler3 ENSMUSG0000003541 -0.742495 -1.673066 4.55E-08 Runx1 ENSMUSG00000022952 -0.798933 -1.739814 6.02E-08 Srarp ENSMUSG0000007637 -0.801233 -1.750704 0.009536 Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000028862 -0.839294 -1.789174 0.00017 Ifitm1 ENSMUSG00000025491 -0.860342 -1.815469 0.00302 Tnfaip2 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-03 Scn10a ENSMUSG00000034533 -0.908906 -1.877664 0.022408	H2-Q6	ENSMUSG00000073409	-0.706413	-1.631742	0.002954
Xdh ENSMUSG0000024066 -0.726106 -1.654168 0.001513 Alox5 ENSMUSG0000025701 -0.731389 -1.660237 0.012353 Cdkn1a ENSMUSG00000023067 -0.737348 -1.667109 9.2E-03 Birc3 ENSMUSG00000032000 -0.742136 -1.67265 1.85E-06 ler3 ENSMUSG0000003541 -0.742495 -1.673066 4.55E-08 Runx1 ENSMUSG00000022952 -0.798933 -1.739814 6.02E-08 Srarp ENSMUSG000007637 -0.801233 -1.74259 0.04567 Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000025491 -0.880342 -1.815469 0.00302 Tnfaip2 ENSMUSG00000025491 -0.880342 -1.815469 0.00302 Scn10a ENSMUSG00000032691 -0.908906 -1.877621 9.02E-06 Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000035070 -0.910471 -1.879659 1.33E-17 <td>C5ar1</td> <td>ENSMUSG00000049130</td> <td>-0.713506</td> <td>-1.639784</td> <td>1.53E-06</td>	C5ar1	ENSMUSG00000049130	-0.713506	-1.639784	1.53E-06
Alox5 ENSMUSG00000025701 -0.731389 -1.660237 0.01235* Cdkn1a ENSMUSG00000023067 -0.737348 -1.667109 9.2E-05* Birc3 ENSMUSG00000032000 -0.742136 -1.67265 1.85E-06* Ier3 ENSMUSG0000003541 -0.742495 -1.673066 4.55E-06* Runx1 ENSMUSG0000002952 -0.798933 -1.739814 6.02E-06* Srarp ENSMUSG00000076637 -0.801233 -1.74259 0.045676* Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009536* Map3k6 ENSMUSG00000028862 -0.839294 -1.789174 0.00017* Ifitm1 ENSMUSG00000025491 -0.860342 -1.815469 0.00302* Tnfaip2 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07* Nirp3 ENSMUSG00000034533 -0.908906 -1.877621 9.02E-08* Scn10a ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17* Maff ENSMUSG00000023070 -0.934081 -1.910673 1.52E	Sh3tc1	ENSMUSG00000036553	-0.721401	-1.648783	0.000792
Cdkn1a ENSMUSG00000023067 -0.737348 -1.667109 9.2E-05 Birc3 ENSMUSG00000032000 -0.742136 -1.67265 1.85E-06 Ier3 ENSMUSG0000003541 -0.742495 -1.673066 4.55E-06 Runx1 ENSMUSG00000022952 -0.798933 -1.739814 6.02E-06 Srarp ENSMUSG00000070637 -0.801233 -1.74259 0.045676 Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000028862 -0.839294 -1.789174 0.000177 Ifitm1 ENSMUSG00000025491 -0.860342 -1.815469 0.003022 Tnfaip2 ENSMUSG00000032691 -0.878738 -1.838766 1.13E-07 Nirp3 ENSMUSG00000034533 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000027995 -0.910471 -1.879664 0.022408 Ch25h ENSMUSG0000003175 -0.935144 -1.910673 1.52E-06	Xdh	ENSMUSG00000024066	-0.726106	-1.654168	0.001513
Birc3 ENSMUSG00000032000 -0.742136 -1.67265 1.85E-06 Ier3 ENSMUSG00000003541 -0.742495 -1.673066 4.55E-08 Runx1 ENSMUSG0000002952 -0.798933 -1.739814 6.02E-08 Srarp ENSMUSG0000007637 -0.801233 -1.74259 0.045678 Cxcl10 ENSMUSG00000028865 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000025491 -0.860342 -1.815469 0.00017 Ifitm1 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07 Nirp3 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG0000005370 -0.935144 -1.910673 1.52E-06 Ccl3 ENSMUSG0000005375 -0.943843 -1.923646 1.18E-05 Bcl3 ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 <td>Alox5</td> <td>ENSMUSG00000025701</td> <td>-0.731389</td> <td>-1.660237</td> <td>0.012351</td>	Alox5	ENSMUSG00000025701	-0.731389	-1.660237	0.012351
ler3 ENSMUSG00000003541 -0.742495 -1.673066 4.55E-06 Runx1 ENSMUSG00000022952 -0.798933 -1.739814 6.02E-06 Srarp ENSMUSG0000007637 -0.801233 -1.74259 0.045676 Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000025491 -0.860342 -1.815469 0.00017 Ifitm1 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07 Nirp3 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022408 Tir2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG0000005370 -0.935144 -1.910673 1.52E-06 Ch25h ENSMUSG00000053175 -0.943843 -1.923646 1.18E-05 Ccl3 ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000023874 -0.998523 -1.997954 0.01236 <td>Cdkn1a</td> <td>ENSMUSG00000023067</td> <td>-0.737348</td> <td>-1.667109</td> <td>9.2E-09</td>	Cdkn1a	ENSMUSG00000023067	-0.737348	-1.667109	9.2E-09
Runx1 ENSMUSG00000022952 -0.798933 -1.739814 6.02E-08 Srarp ENSMUSG00000070637 -0.801233 -1.74259 0.045678 Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009538 Map3k6 ENSMUSG0000002862 -0.839294 -1.789174 0.000177 Ifitm1 ENSMUSG00000025491 -0.860342 -1.815469 0.003022 Tnfaip2 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07 Nlrp3 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG0000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-08 Ch25h ENSMUSG0000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG00000023947 -0.997374 -1.996363 1.85E-08 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.01236	Birc3	ENSMUSG00000032000	-0.742136	-1.67265	1.85E-06
Srarp ENSMUSG00000070637 -0.801233 -1.74259 0.045678 Cxcl10 ENSMUSG00000034855 -0.807935 -1.750704 0.009536 Map3k6 ENSMUSG00000025491 -0.860342 -1.815469 0.000027 Ifitm1 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07 Nlrp3 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-06 Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022406 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG0000005370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000037614 -1.005073 -2.007045 2.84E-07	ler3	ENSMUSG00000003541	-0.742495	-1.673066	4.55E-08
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Map3k6 ENSMUSG00000028862 -0.839294 -1.789174 0.000177 Ifitm1 ENSMUSG00000025491 -0.860342 -1.815469 0.003022 Tnfaip2 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07 Nlrp3 ENSMUSG0000032691 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG0000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-12 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG0000005370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG00000023947 -0.997374 -1.9955174 0.004907 Nfkbie ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Fgr ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07	Srarp	ENSMUSG00000070637	-0.801233	-1.74259	0.045678
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Tnfaip2 ENSMUSG00000021281 -0.878738 -1.838766 1.13E-07 Nlrp3 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-08 Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG000005370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG0000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-08 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06	Map3k6	ENSMUSG00000028862	-0.839294	-1.789174	0.000171
NIrp3 ENSMUSG00000032691 -0.908906 -1.877621 9.02E-05 Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG00000050370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG0000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Fgr ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Ifitm1	ENSMUSG00000025491	-0.860342	-1.815469	0.003022
Scn10a ENSMUSG00000034533 -0.908939 -1.877664 0.022408 Tlr2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG0000050370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10 </td <td>Tnfaip2</td> <td>ENSMUSG00000021281</td> <td>-0.878738</td> <td>-1.838766</td> <td>1.13E-07</td>	Tnfaip2	ENSMUSG00000021281	-0.878738	-1.838766	1.13E-07
Tir2 ENSMUSG00000027995 -0.910471 -1.879659 1.33E-17 Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG00000050370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG0000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-08 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG000000063234 -1.060232 -2.085267 7.37E-10	Nlrp3	ENSMUSG00000032691	-0.908906	-1.877621	9.02E-05
Maff ENSMUSG00000042622 -0.934081 -1.910673 1.52E-06 Ch25h ENSMUSG00000050370 -0.935144 -1.912082 0.002508 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-08 Ccl3 ENSMUSG0000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Lrg1 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Scn10a	ENSMUSG00000034533	-0.908939	-1.877664	0.022408
Ch25h ENSMUSG00000050370 -0.935144 -1.912082 0.002503 Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-05 Ccl3 ENSMUSG0000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG000000063234 -1.060232 -2.085267 7.37E-10	Tlr2	ENSMUSG00000027995	-0.910471	-1.879659	1.33E-11
Bcl3 ENSMUSG00000053175 -0.943843 -1.923646 1.18E-05 Ccl3 ENSMUSG00000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-16	Maff	ENSMUSG00000042622	-0.934081	-1.910673	1.52E-06
Ccl3 ENSMUSG00000000982 -0.967297 -1.955174 0.004907 Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Ch25h	ENSMUSG00000050370	-0.935144	-1.912082	0.002509
Nfkbie ENSMUSG00000023947 -0.997374 -1.996363 1.85E-06 Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.01236 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-16	Bcl3	ENSMUSG00000053175	-0.943843	-1.923646	1.18E-05
Fgr ENSMUSG00000028874 -0.998523 -1.997954 0.012367 Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Ccl3	ENSMUSG00000000982	-0.967297	-1.955174	0.004901
Rab20 ENSMUSG00000031504 -1.003711 -2.005151 0.003347 Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Nfkbie	ENSMUSG00000023947	-0.997374	-1.996363	1.85E-06
Ccl12 ENSMUSG00000035352 -1.005073 -2.007045 2.84E-07 Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-16	Fgr	ENSMUSG00000028874	-0.998523	-1.997954	0.012361
Gm26508 ENSMUSG00000097614 -1.045895 -2.064648 0.002183 Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Rab20	ENSMUSG00000031504	-1.003711	-2.005151	0.003347
Lrg1 ENSMUSG00000037095 -1.058826 -2.083236 2.12E-06 Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Ccl12	ENSMUSG00000035352	-1.005073	-2.007045	2.84E-07
Gpr84 ENSMUSG00000063234 -1.060232 -2.085267 7.37E-10	Gm26508	ENSMUSG00000097614	-1.045895	-2.064648	0.002183
'	Lrg1	ENSMUSG00000037095	-1.058826	-2.083236	2.12E-06
Ccl2 ENSMUSG00000035385 -1.062011 -2.08784 0.000728	Gpr84	ENSMUSG00000063234	-1.060232	-2.085267	7.37E-10
	Ccl2	ENSMUSG00000035385	-1.062011	-2.08784	0.000728

Tmem252	ENSMUSG00000048572	-1.108489	-2.156198	3.81E-05
Tnfaip3	ENSMUSG00000019850	-1.118203	-2.170763	0
Hrct1	ENSMUSG00000071001	-1.144907	-2.211318	0.009134
Ccl7	ENSMUSG00000035373	-1.145499	-2.212226	0.035223
Batf	ENSMUSG00000034266	-1.160242	-2.23495	0.007694
Ccl4	ENSMUSG00000018930	-1.177159	-2.261311	0.000853
Icam1	ENSMUSG00000037405	-1.198012	-2.294234	0
ll1a	ENSMUSG00000027399	-1.257676	-2.391103	4.29E-11
Slamf8	ENSMUSG00000053318	-1.333755	-2.520579	0.000151
8430408G22Rik	ENSMUSG00000048489	-1.355146	-2.55823	2.41E-07
Osm	ENSMUSG00000058755	-1.376904	-2.597105	0.00111
Lcn2	ENSMUSG00000026822	-1.396404	-2.632446	0
Gcat_2	ENSMUSG00000116378	-1.564348	-2.957438	8.4E-06
II1b	ENSMUSG00000027398	-1.598562	-3.028412	1.52E-07
Hcar2	ENSMUSG00000045502	-1.61907	-3.07177	6.41E-07
AL592169.1	ENSMUSG00000116069	-1.747376	-3.357474	0.043938
Acod1	ENSMUSG00000022126	-1.754791	-3.374774	0.011074
Retnlg	ENSMUSG00000022651	-1.79957	-3.481163	0.012351
Serpina3f	ENSMUSG00000066363	-1.803389	-3.490392	0.001113
Lao1	ENSMUSG00000024903	-1.805633	-3.495825	0.007474
Cd40	ENSMUSG00000017652	-1.814809	-3.51813	2.52E-09
ll1rn	ENSMUSG00000026981	-1.823029	-3.538233	3.47E-07
Cd69	ENSMUSG00000030156	-1.982615	-3.952088	0.041086
S100a8	ENSMUSG00000056054	-2.083062	-4.237054	0.000233
AL732309.2	ENSMUSG00000115074	-2.301766	-4.930609	0.02417
S100a9	ENSMUSG00000056071	-2.307743	-4.951079	6.85E-06
Tnf	ENSMUSG00000024401	-2.446487	-5.450872	0
Cxcl2	ENSMUSG00000058427	-2.852437	-7.222194	2.96E-09
II12b	ENSMUSG00000004296	-2.901498	-7.472016	0.028447
Gm20441	ENSMUSG00000092360	-5.065622	-33.48916	0.045595
Ccr3	ENSMUSG00000035448	-6.214271	-74.2475	0

Table 1: Upregulated (green, fold change > 1.5) and downregulated (red, fold change < -1.5) genes in infected wild type versus infected monocyte-depleted mice. Wild type and CCR2-DTR mice were infected with *T. spiralis* and treated with diphtheria toxin intraperitoneally every other day. Mice were sacrificed 8 days post-infection and brain tissue was harvested. Results are representative of 3 biological replicates per naive and infected group.

QuantiTech primer assay information:

Gene Target	SOURCE	IDENTIFIER
Actb	Qiagen	Cat. # QT01136772
Tnf	Qiagen	Cat. # QT00104006
II1b	Qiagen	Cat. # QT01048355
116	Qiagen	Cat. # QT00098875
II12b	Qiagen	Cat. # QT00153643
NIrp3	Qiagen	Cat. # QT00122458
Arg1	Qiagen	Cat. # QT00134288
Retnla	Qiagen	Cat. # QT00254359
Chil3	Qiagen	Cat. # QT00108829
Ear2	Qiagen	Cat. # QT00265965
Mgl2	Qiagen	Cat. # QT00143640
Foxo1	Qiagen	Cat. # QT00116186
Fbxo32	Qiagen	Cat. # QT00158543
Trim63	Qiagen	Cat. # QT00291991
Ccl2	Qiagen	Cat. # QT00167832
F10	Qiagen	Cat. # QT02524935
Crp	Qiagen	Cat. # QT00255444
Havcr1	Qiagen	Cat. # QT00112427
II18	Qiagen	Cat. # QT00171129