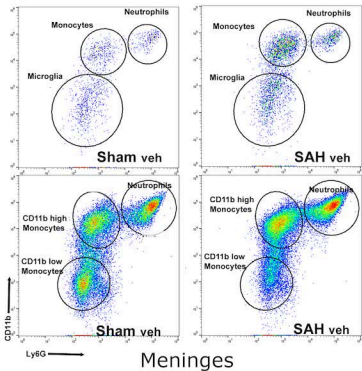


	Human						Mouse					
	Good Outcome		Bad Outcome		Direction	Significance	Sham		SAH		Direction	Significance
	Mean	St Error	Mean	St Error			Mean	St Error	Mean	St Error		
IL-1 α	2.538	0.2669	5.476	1.161	Increased	S	0.009	0.003	0.026	0.007	Increased	NS
IL-1 β	0.6275	0.199	1.866	0.887	Increased	NS	0.008	0.004	0.012	0.003	Increased	NS
IL-1ra	5.021	1.305	12.61	3.868	Increased	NS	0.011	0.006	0.013	0.003	Increased	NS
IL-2	2.609	0.8067	6.923	1.644	Increased	S	0.004	0.002	0.009	0.001	Increased	S
IL-4	-0.422	0.315	-0.1897	1.034	Increased	NS	0.009	0.003	0.006	0.001	Decreased	NS
IL-5	0.153	0.347	1.161	1.648	Increased	NS	0.004	0.001	0.008	0.003	Increased	NS
IL-6	3.917	1.639	8.718	4.761	Increased	NS	0.003	0.001	0.006	0.002	Increased	NS
IL-10	1.001	0.001	1.002	0.001	Unchanged	NS	0.007	0.003	0.056	0.041	Increased	NS
IL-12 p70	3.4	0.517	7.071	2.018	Increased	NS	0.007	0.003	0.023	0.011	Increased	NS
IL-13	3.319	0.589	7.358	3.323	Increased	NS	0.002	0.001	0.011	0.004	Increased	NS
IL-16	4.67	0.998	9.959	2.669	Increased	NS	0.008	0.005	0.018	0.004	Increased	NS
IL-17	1.273	0.642	5.307	1.889	Increased	S	0.003	0.003	0.018	0.005	Increased	S
IL-23	2.408	0.421	7.238	3.83	Increased	NS	0.010	0.004	0.013	0.003	Increased	NS
IL-27	0.203	0.1472	2.115	2.481	Increased	NS	0.037	0.026	0.034	0.008	Decreased	NS
CCL2	20.35	11.23	30.11	13.8	Increased	NS	0.012	0.006	0.018	0.007	Increased	NS
CCL3	2.624	0.603	6.689	2.811	Increased	NS	0.010	0.004	0.020	0.007	Increased	NS
CCL4	1.857	0.441	5.227	2.606	Increased	NS	0.008	0.003	0.012	0.003	Increased	NS
CCL5	1.94	0.286	1.883	0.489	Decreased	NS	-0.002	0.005	0.009	0.003	Increased	NS
CXCL1/IL-8	1.655	0.504	8.838	3.917	Increased	NS	0.005	0.001	0.008	0.003	Increased	NS
CXCL10	4.08	0.833	9.917	3.492	Increased	NS	0.009	0.003	0.009	0.002	No change	NS
CXCL11	2.243	0.341	4.552	1.51	Increased	NS	0.008	0.002	0.013	0.006	Increased	NS
CXCL12	1.933	0.506	3.179	0.602	Increased	NS	0.020	0.003	0.041	0.014	Increased	NS
C5/C5a	4.805	4.516	0.797	0.246	Decreased	NS	0.011	0.004	0.015	0.004	Increased	NS
G-CSF	0.93	0.125	2.499	1.677	Increased	NS	0.007	0.002	0.012	0.004	Increased	NS
GM-CSF	12.52	7.974	12.12	3.173	Decreased	NS	0.009	0.004	0.012	0.004	Increased	NS
IFN- γ	1.911	0.523	7.386	2.954	Increased	NS	0.009	0.003	0.015	0.004	Increased	NS
s-ICAM	17.79	11.79	23.99	14.34	Increased	NS	0.192	0.072	0.296	0.104	Increased	NS
TNF- α	6.884	1.441	14.89	3.653	Increased	S	0.014	0.004	0.020	0.006	Increased	NS
TREM-1	3.749	0.636	8.302	2.272	Increased	S	0.007	0.003	0.011	0.004	Increased	NS
IL-3	-	-	-	-	-	-	0.007	0.002	0.005	0.002	Decreased	NS

IL-7	-	-	-	-	-	-	0.011	0.006	0.024	0.012	Increased	NS
IL-17E	1.566	0.542	6.224	3.848	Increased	NS	-	-	-	-	-	-
IL-32a	1.288	0.143	1.15	0.261	Decreased	NS	-	-	-	-	-	-
CCL11	2.243	0.341	4.552	1.151	Increased	NS	0.004	0.001	0.014	0.005	Increased	NS
CCL12	-	-	-	-	-	-	0.013	0.005	0.001	0.007	Decreased	NS
CCL17	-	-	-	-	-	-	0.002	0.001	0.010	0.004	Increased	NS
CXCL2	-	-	-	-	-	-	0.001	0.003	0.014	0.004	Increased	S
CXCL9	-	-	-	-	-	-	0.011	0.004	0.018	0.007	Increased	NS
CXCL13	-	-	-	-	-	-	0.011	0.003	0.010	0.002	No change	NS
CD40L	1.638	0.331	3.662	1.215	Increased	NS	-	-	-	-	-	-
MIF	30.78	16.05	66.16	19.04	Increased	NS	-	-	-	-	-	-
M-CSF	-	-	-	-	-	-	0.060	0.034	0.089	0.044	Increased	NS
SerpinE1	56.08	20.04	57.56	17.15	Increased	NS	-	-	-	-	-	-
TIMP-1	-	-	-	-	-	-	0.008	0.004	0.012	0.003	Increased	NS

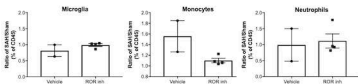
Supplemental Table 1: Mean and Standard error values for analytes tested. Each individual point was normalized against local peri-dot signal intensity to limit intra-membrane differences, then subtracted from the mean of the two normalized negative control dots. The intensity of the signal does not correlate with level of cytokine and is only valid as a comparison between good and poor outcome (humans) and sham and SAH (mouse). Direction of change is a simple comparison of the two groups and significance was defined by a p value of 0.05 on Student's T test.

A Brain

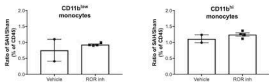


B

BRAIN



MENINGES



Supplemental Figure 1: A) Flow cytometric analysis of brain and meninges of mice three days after SAH shows that there are more inflammatory cells in the meninges than in the brain. Single cell suspensions of brain parenchyma showed that there are three predominant myeloid cell types after SAH: microglia (CD45⁺Ly6C⁺Ly6G^{low}CD11b^{low}), monocytes (CD45⁺Ly6C^{high}Ly6G^{int}CD11b^{high}), and neutrophils (CD45⁺Ly6C^{low}Ly6G^{high}CD11b^{high}) in the brain (top) and neutrophils (CD45⁺Ly6C^{low}Ly6G^{high}CD11b^{high}), and two types of monocytes (CD11b low (CD45⁺Ly6C^{high}Ly6G^{int}CD11b^{low}) and CD11b high ((CD45⁺Ly6C^{high}Ly6G^{int}CD11b^{high})), in the meninges (bottom). There are more inflammatory cells in the meninges than the brain (meninges images also presented in Figure 2). **B) Inhibition of IL-17 with the ROR γ t reverse agonist GSK805 (ROR inh) showed no difference in neutrophils or microglia in the brain⁴.** There was decrease in monocytes three days after SAH in the brain. In the meninges, there was no change in either population of monocytes. The bars on the graphs show the ratio of cell type (as a percentage of all inflammatory cells) between Sham and SAH animal in both vehicle-treated and ROR γ t inhibitor treated mice.