

**Table S2 Cytokine and chemokine profile in CSF and serum**

Cytokine/ Chemokine	Encephalitis (n=10)	ASM (n=25)	ABM (n=6)	Controls (n=42)	p- value <sup>a</sup>
<b>CSF</b>					
TNF	14 (4.2, 56) <sup>b</sup>	95 (25, 159) <sup>b,c</sup>	368 (89, 15383) <sup>b,c</sup>	1.6 (0.5, 2.7)	<0.001
IL-1 $\beta$	0.5 (0.2, 1.4) <sup>b</sup>	3.2 (1.0, 5.1) <sup>b,c</sup>	19 (3.3, 1538) <sup>b,c,d</sup>	0.1 (0.1, 0.2)	<0.001
IL-1Ra	17 (9.5, 322) <sup>b</sup>	243 (52, 657) <sup>b,c</sup>	2402 (94, 7038) <sup>b,c</sup>	2.6 (1.7, 3.8)	<0.001
IL-2	0.1 (0.0, 1.2)	3.2 (1.0, 13) <sup>b,c</sup>	14 (1.4, 32) <sup>b,c</sup>	0.4 (0.0, 0.7)	<0.001
IL-4	0.7(0.3, 1.9) <sup>b</sup>	2.4 (0.5, 5.1) <sup>b,c</sup>	12 (3.5, 19) <sup>b,c,d</sup>	0.1 (0.1, 0.3)	<0.001
IL-6	174 (24, 431) <sup>b</sup>	1706 (693, 4810) <sup>b,c</sup>	31787 (2577, 41778) <sup>b,c,d</sup>	6.7 (3.3, 22)	<0.001
IL-7	4.9 (3.4, 7.9) <sup>b</sup>	5.0 (3.2, 7.4) <sup>b</sup>	10.4 (5.4, 19) <sup>b,d</sup>	1.6 (0.7, 3.1)	<0.001
IL-8	92 (35, 322) <sup>b</sup>	398 (120, 1217) <sup>b</sup>	666 (162, 15432) <sup>b</sup>	15 (9.4, 24)	<0.001
IL-9	3.9 (3.0, 6.7) <sup>b</sup>	6.5(3.0, 11) <sup>b</sup>	40 (6.7, 86) <sup>b,c,d</sup>	2.1 (1.4, 2.8)	<0.001
IL-10	2.5 (1.7, 12) <sup>b</sup>	22 (3.6, 78) <sup>b,c</sup>	165 (7.9, 435) <sup>b,c</sup>	1.2 (0.7, 1.5)	<0.001
IL-12p70	1.0 (0.3, 2.0)	2.5 (0.9, 4.4) <sup>b,c</sup>	9.8 (5.2, 23) <sup>b,c,d</sup>	0.5 (0.3, 1.0)	<0.001
IL-13	1.6 (1.1, 2.5)	5.6 (3.8, 8.2) <sup>b,c</sup>	6.6 (4.8, 8.5) <sup>b,c</sup>	1.6 (0.3, 5.1)	<0.001
IL-15	8.2 (5.6, 13) <sup>b</sup>	17 (5.1, 26) <sup>b</sup>	38 (14, 75) <sup>b,c,d</sup>	3.7 (2.9, 5.3)	<0.001
IL-17A	3.7 (0, 20)	24 (3.2, 51) <sup>b,c</sup>	296 (17, 516) <sup>b,c,d</sup>	5.0 (0.7, 8.6)	<0.001
MCP-1	226 (74, 563)	208 (89, 644) <sup>b</sup>	555 (344, 1675) <sup>b</sup>	94 (69, 144)	0.001
MIP-1 $\alpha$	1.1 (0.8, 3.9) <sup>b</sup>	3.7 (1.3, 7.8) <sup>b,c</sup>	68 (3.6, 811) <sup>b,c,d</sup>	0.2 (0.1, 0.3)	<0.001
MIP-1 $\beta$	11 (6.4, 17) <sup>b</sup>	27 (8.4, 54) <sup>b</sup>	551 (71, 1391) <sup>b,c,d</sup>	4.3 (2.6, 7.0)	<0.001
IP-10	3004	29887	26820	559	<0.001
	(1847, 27292) <sup>b</sup>	(5803, 33469) <sup>b,c</sup>	(4425, 32658) <sup>b</sup>	(158, 1606)	
G-CSF	43 (7.7, 121) <sup>b</sup>	173 (81, 330) <sup>b,c</sup>	2078 (122, 13888) <sup>b,c</sup>	5.9 (1.2, 31)	<0.001
GM-CSF	7.1 (0.6, 15) <sup>b</sup>	14 (7.6, 22) <sup>c</sup>	37 (8.4, 58) <sup>b,c</sup>	13 (7.2, 17)	0.021
VEGF	21 (11, 33)	41 (14, 77) <sup>b</sup>	146 (101, 301) <sup>b,c,d</sup>	21 (4.5, 30)	<0.001
Eotaxin	31 (16, 67) <sup>b</sup>	128 (80, 241) <sup>b,c</sup>	362 (109, 598) <sup>b,c</sup>	8.2 (0.5, 17)	<0.001
<b>Serum</b>					
IFN- $\gamma$	22 (21, 32)	24 (18, 30)	26 (18, 44)	21 (17, 29)	0.608
TNF	72 (65, 92)	83 (67, 97)	103 (84, 193) <sup>b</sup>	68 (51, 88)	<b>0.041</b>
IL-1 $\beta$	2.5 (2.0, 3.2)	2.5 (1.8, 3.4)	3.4 (2.3, 7.4)	2.5 (1.9, 3.1)	0.295
IL-1Ra	81 (60, 272)	73 (62, 114) <sup>b</sup>	274 (178, 4493) <sup>b,c,d</sup>	151 (85, 236)	<b>0.005</b>
IL-4	4.5 (3.4, 5.7)	4.1 (3.5, 4.7)	5.1 (3.6, 9.3)	4.2 (3.1, 5.1)	0.511
IL-6	16 (8.9, 27)	10 (4.7, 22)	164 (57, 1596) <sup>b,c,d</sup>	19 (7.4, 30)	<b>0.002</b>
IL-8	19 (14, 36)	14 (11, 18)	40 (19, 178) <sup>b,d</sup>	16 (12, 20)	<b>0.015</b>
IL-9	59 (47, 91)	47 (39, 57)	63 (44, 79)	49 (40, 58)	0.150
IL-10	16 (7.6, 41)	9.4 (6.4, 14)	26 (8.7, 54)	10 (6.6, 21)	0.153
IL-12p70	37 (14, 72)	25 (18, 45)	37 (16, 54)	25 (15, 41)	0.806
IL-13	12 (2.5, 18)	6.1 84.5, 12)	3.7 (2.6, 4.8)	4.4 (3.5, 8.2)	0.142
IL-17A	188 (129, 382)	131 (88, 176)	190 (113, 251)	131 (92, 208)	0.240
MCP-1	62 (16, 87)	20 (11, 36)	46 (32, 362)	30 (16, 59)	0.103
MIP-1 $\alpha$	5.1 (3.8, 9.3)	4.5 (3.9, 6.3)	5.1 (4.7, 7.0) <sup>b</sup>	4.1 (3.3, 4.9)	<b>0.044</b>
MIP-1 $\beta$	128 (94, 200)	81 (54, 124)	122 (81, 289)	103 (81, 166)	0.064
IP-10	377 (175, 1139)	187 (114, 354)	969 (537, 7485) <sup>d</sup>	318 (127, 1375)	<b>0.035</b>
VEGF	189 (23, 379)	132 (89, 250)	247 (72, 411)	148 (86, 233)	0.767
Eotaxin	25 (17, 30)	23 (18, 37)	25 (18, 38)	29 (19, 42)	0.488
PDGF	334 (242, 572)	338 (240, 526)	300 (25, 566)	361 (248, 562)	0.833
Rantes	13972	16984	14148	14089	0.642
	(11673, 19654)	(12039, 19522)	(10534, 15944)	(10594, 19544)	

Data shown are median (IQR), all units are in pg/ml

<sup>a</sup>p values for one way analysis of variance (Kruskal Wallis)<sup>b</sup>p<0.05 for analysis with Mann-Whitney U test (MWU) in comparison with control group<sup>c</sup>p<0.05 for analysis with MWU in comparison with encephalitis<sup>d</sup>p<0.05 for analysis with MWU in comparison with ASM.