

Table S4 CSF and serum levels of KP metabolites

KP metabolite	Encephalitis (n=10)	VM (n=12)	ABM (n=6)	Controls (n=22)	p-value ^a
CSF					
TRP ^e	1.95 (0.7, 2.5)	0.4 (0.4, 0.9) ^{b,c}	3.3 (0.4, 4.2) ^d	1.95 (1.6, 2.3)	<0.001
KYN ^e	0.1 (0.1, 0.5) ^b	0.4 (0.4, 1.0) ^{b,c}	0.8 (0.3, 1.8) ^{b,c}	0.04 (0.02, 0.05)	<0.001
KYNA	6.9 (2.7, 11) ^b	7.9 (3.3, 23) ^b	37 (10, 93) ^{b,c,d}	2.1 (1.7, 3.1)	<0.001
AA	13 (7.5, 28) ^b	17 (11, 58) ^b	47 (10, 78) ^b	3.9 (2.9, 5.6)	<0.001
3-HK	22 (5.4, 30) ^b	20 (10, 29) ^b	23 (16, 78) ^b	4.3 (3.1, 4.4)	<0.001
3-HAA	8.6 (2.4, 27) ^b	25 (10, 121) ^{b,c}	45 (27, 103) ^{b,c}	< LOD	<0.001
QA	445 (236, 744) ^b	279 (128, 988) ^b	619 (166, 3180) ^b	21 (14, 42)	<0.001
PIC	31 (23, 91) ^b	25 (16, 31)	47 (30, 118) ^{b,d}	20 (13, 29)	0.008
Neopterin	97 (44, 149) ^b	100 (76, 123) ^b	85 (45, 146) ^b	19 (16, 25)	<0.001
KYN/TRP ratio (IDO) ^f	61 (42,725) ^b	993 (492,249) ^{b,c}	295 (66,3953) ^b	16 (12,20)	<0.001
Serum					
TRP ^e	47 (31, 57)	56 (45, 63)	22 (11, 33) ^{b,d}	55 (47, 64)	0.001
KYN ^e	1.4 (1.1, 3.3)	1.3 (1.1, 1.7)	2.1 (1.2, 5.1)	1.6 (1.2, 1.9)	0.302
KYNA	49 (38, 69)	35 (26, 53)	45 (39, 212)	36 (24, 46)	0.074
AA	20 (12, 31)	14 (12, 16)	17 (14, 92)	15 (12, 24)	0.290
3-HK	51 (29, 110)	43 (32, 53)	93 (50, 359)	50 (39, 61)	0.228
3-HAA	38 (21, 84)	25 (20, 39)	48 (27, 80)	27 (23, 42)	0.407
QA	413 (234, 1367)	294 (243, 392)	1185 (480, 3222)	377 (298, 583)	0.065
PIC	36 (28, 171)	38 (28, 55)	76 (60, 133)	32 (22, 52)	0.053
Neopterin	31 (18, 61)	24 (21, 30)	67 (41, 122)	30 (20, 43)	0.128
KYN/TRP ratio (IDO) ^f	28 (21,94)	21 (19,31) ^b	114 (50,448) ^{b,d}	29 (25,34)	0.009

Data shown are median (IQR)

^ap values for one way analysis of variance (Kruskal Wallis)^bp<0.05 for analysis with Mann-Whitney U test (MWU) in comparison with control group^cp<0.05 for analysis with MWU in comparison with encephalitis^dp<0.05 for analysis with MWU in comparison with VM^eUnits are micromoles/L (μ M), for all other metabolites units are in nanomoles/L (nM)^fKYN/TRP ratio is calculated as KYN(nmol)/TRP(μ mol).