

## Supplementary Materials

**Table S1.** Individual results of 3-hydroxyphenyl acetic acid (3HPAA), homovanillic acid (HVA) and caffeic acid (CA) measurement in cerebrospinal fluid and plasma in the subgroup of patients with multiple sclerosis.

Patient Number	Sex	Cerebrospinal Fluid [ $\mu\text{mol/L}$ ]			Plasma [ $\mu\text{mol/L}$ ]		
		3HPAA	HVA	CA	3HPAA	HVA	CA
1	F	7.73	0.16	0.03	0.00	0.07	0.03
2	F	0.00	0.15	0.02	0.00	0.07	0.03
3	F	39.15	0.22	0.03	4.12	0.13	0.02
4	F	6.92	0.20	0.01	0.00	0.10	0.03
5	F	7.13	0.29	0.03	0.00	0.07	0.02
6	M	4.50	0.07	0.03	0.00	0.08	0.03
7	F	5.82	0.37	0.03	0.00	0.09	0.03
8	F	3.14	0.27	0.03	0.00	0.07	0.03
9	F	3.01	0.10	0.02	0.00	0.07	0.03
10	F	2.33	0.15	0.00	0.00	0.08	0.03
11	F	2.17	0.23	0.02	0.00	0.13	0.02
12	F	1.19	0.12	0.03	0.00	0.11	0.03
13	M	3.40	0.09	0.03	0.00	0.07	0.03
14	F	17.41	0.16	0.03	1.43	0.10	0.03
15	F	17.96	0.30	0.03	0.93	0.08	0.01

**Table 2.** Individual results of 3-hydroxyphenyl acetic acid (3HPAA), homovanillic acid (HVA) and caffeic acid (CA) measurement in cerebrospinal fluid and plasma in the subgroup of patients with other neurological disorders.

Patient Number	Sex	Cerebrospinal Fluid [ $\mu\text{mol/L}$ ]			Plasma [ $\mu\text{mol/L}$ ]		
		3HPAA	HVA	CA	3HPAA	HVA	CA
1	F	10.19	0.42	0.02	9.93	0.16	0.03
2	F	9.00	0.11	0.02	0.00	0.11	0.03
3	M	2.42	0.47	0.04	0.00	0.16	0.04
4	M	2.63	0.33	0.02	0.00	0.12	0.03
5	M	3.18	0.16	0.02	0.00	0.15	0.04
6	M	19.53	0.23	0.02	0.00	0.10	0.04
7	M	2.38	0.06	0.04	0.00	0.12	0.03
8	F	24.75	0.15	0.02	4.00	0.07	0.04
9	F	3.74	0.27	0.02	0.00	0.11	0.03
10	M	11.59	0.23	0.02	0.00	0.16	0.04
11	M	4.20	0.07	0.02	0.00	0.13	0.03
12	M	2.51	0.17	0.02	0.00	0.05	0.03
13	M	4.97	0.19	0.02	0.00	0.07	0.03