

SUPPLEMENTARY TABLE S2. BIOCHEMICAL AND HEMATOLOGICAL PARAMETERS OF PATIENTS AND HEALTHY CONTROLS ON STUDY ENTRY

	<i>Controls</i>	<i>PD patients</i>	<i>p value</i>
Patients (<i>n</i> =all analyses; only CSF)	(<i>n</i> =40; 20)	(<i>n</i> =40; 20)	
Age (years)	(62) [58–66]	(61) [54–65]	0.3
Gender ratio (female/male)	(0.8)	(0.6)	0.49
Brain iron content (from R2* MRI sequence)			
Substantia nigra	3.98 [3.7–4.1]	4.54 [4.3–4.9]	0.0001
Putamen	2.87 [2.8–3.1]	3.29 [3.1–3.5]	0.0001
Caudate	3 [2.8–3.2]	2.9 [2.7–3.1]	0.3
Pallidum	4 [3.7–4.7]	4.3 [4–4.6]	0.25
Iron metabolic parameters			
Ferritin (ng/ml) in CSF	4 [3–5]	6 [5–7]	0.002
Ferritin (ng/ml) in plasma	93 [52–124]	71 [33–108]	0.6
Iron in CSF ($\mu\text{g/L}$)	21 [18–25]	20 [16–24]	0.4
Sideruria ($\mu\text{g}/24\text{ h}$)	4 [2–8]	4 [3–7]	0.6
Oxidation parameters. CSF			
Malonaldehyde (μM)	0.025 [0.02–0.04]	0.04 [0.028–0.043]	0.003
8 oxodG (pg/ml)	134 [118–231]	273 [216–306]	0.01
Carbonylated proteins (pmol/mg)	611 [530–687]	722 [632–908]	0.002
Oxidation parameters. Plasma			
Malonaldehyde (μM)	0.8 [0.7–0.9]	0.9 [0.7–1]	0.7
8 oxodG (pg/ml)	133 [30–251]	151 [91–219]	0.3
Carbonylated proteins ($\mu\text{mol/g prot}$)	3 [2.6–3.3]	4.1 [3–4.9]	0.01
Antioxidant enzymes. CSF			
Glutathione peroxidase (U/L)	38 [35–41]	32 [26–36]	0.02
Superoxide dismutase (U/L)	0.89 [0.8–0.92]	0.74 [0.58–0.83]	0.01
Antioxidant enzymes. Plasma			
Glutathione peroxidase (U/g)	56 [47–63]	51 [47–61]	0.08
Superoxide dismutase (U/g)	1300 [1119–1544]	1132 [1048–1276]	0.11
Antioxidant status (mM)	1.47 [1.4–1.62]	1.53 [1.44–1.61]	0.3
Ceruloplasmin (g/L)	0.30 [0.26–0.36]	0.27 [0.25–0.31]	0.1

The baseline parameters (expressed as the median [1st quartile–3rd quartile]) were compared with values from an age- and gender-matched control population in a Mann–Whitney test.

CSF, cerebrospinal fluid; MRI, magnetic resonance imaging; 8-oxodG, 8-oxo-7,8-dihydro-2'-deoxyguanosine.