

Supplemental Table 1: AADC activity (pmol/mg protein/min) and monoamine (ng/mg protein) levels of control and PD human brain tissue.

	AADC	% red.	DA	% red.	DOPAC	% red.	HVA	% red.	DA:HVA	5-HT	% red.	5-HIAA	% red.
<i>Anterior caudate</i>													
PD	0.85±0.26*		5.45±2.74***		1.57±0.86**		23.63±3.68***		0.23	2.23±0.21**		7.19±0.48*	
Controls	12.06±5.56	-93.0	60.83±8.71	-91.0	8.42±1.95	-81.4	60.74±4.28	-61.6	1	5.58±1.01	-60.0	10.44±1.33	-31.1
<i>Anterior dorsal putamen</i>													
PD	0.72±0.06*		0.71±0.41***		0.75±.65**		13.08±2.01***		0.05	1.95±0.34**		6.93±0.89*	
Controls	5.69±1.84	-87.3	61.67±9.71	-98.8	3.65±0.91	-79.5	72.39±6.39	-81.9	0.85	5.16±0.82	-62.2	10.77±1.06	-35.7
<i>Anterior ventral putamen</i>													
PD	1.51±0.36**		3.21±1.77***		0.79±0.57*		37.34±6.61***		0.09	4.46±0.79		12.98±1.81	
Controls	10.69±2.46	-85.9	60.64±6.04	-94.7	5.04±1.32	-84.3	83.55±8.41	-55.3	0.73	6.16±0.89	-27.6	12.67±0.99	2.4
<i>Posterior dorsal putamen</i>													
PD	0.82±0.11*		1.66±0.81***		0.41±0.14**		15.98±3.51***		0.1	3.02±0.46		14.33±2.56	
Controls	5.23±1.81	-84.3	74.29±12.7	-97.8	4.53±1.36	-90.9	55.43±5.41	-71.2	1.34	4.54±0.77	-33.5	16.32±2.75	-12.2
<i>Posterior ventral putamen</i>													
PD	0.67±0.06***		1.43±0.71***		0.45±0.23*		18.01±5.16***		0.08	4.33±1.86		14.52±2.41	
Controls	7.01±1.49	-90.4	94.62±13.62	-98.5	5.93±2.07	-92.4	77.59±10.9	-76.8	1.22	7.39±0.73	-41.4	19.62±1.72	-26.0

Data are expressed as mean ± SEM.

% red.: percentage of reduction of the analyte in the PD patients compared with the healthy controls

Unpaired, two-tailed t-test: * p ≤ 0.05; ** p ≤ 0.01; *** p ≤ 0.001 – compared to healthy controls