

Supplementary data to

EFFECT OF CEREBRAL DOPAMINE NEUROTROPHIC FACTOR ON ENDOGENOUS NEURAL PROGENITOR CELL MIGRATION IN A RAT MODEL OF PARKINSON'S DISEASE

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<http://dx.doi.org/10.17179/excli2018-1959>

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The raw data of the elapsed time (s) in the bar test in different groups on days 7, 14, and 21 after injection of CDFN or vehicle. n=6 per each group (OH: 6-OHDA; CDFN: cerebral dopamine neurotrophic factor). Each line corresponds to one rat.

Elapsed time in the bar test 7				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	10	101	96	74
Rat no. 2	9	119.57	110	80
Rat no. 3	19.01	78.45	108	66.4
Rat no. 4	28	89	89	58
Rat no. 5	10	100	85.5	102.6
Rat no. 6	20.09	97	95	96

Elapsed time in the bar test 14				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	24.48	86	80.5	66
Rat no. 2	13	96	96.7	76.3
Rat no. 3	9.6	105.2	77	74.5
Rat no. 4	9.02	78	60.3	66.2
Rat no. 5	19	80	84.5	75.25
Rat no. 6	22.4	82.8	90	66.25

Elapsed time in the bar test 21				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	27.2	97.9	110.2	76.75
Rat no. 2	10	91	86	60.5
Rat no. 3	25	105	99	50.25
Rat no. 4	9.8	81.1	94	65
Rat no. 5	10.5	78	90	78
Rat no. 6	21	85.5	77.3	49

The raw data of Table 3(a). The latency to begin crossing the beam (Akinesia time(S)) in different groups on days 7, 14, and 21 after injection of CDFN or vehicle. n=6 per each group (OH: 6-OHDA; CDFN: cerebral dopamine neurotrophic factor). Each line corresponds to one rat.

Akinesia 7				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	1.85	5.3	5	5
Rat no. 2	2	4.4	3.8	1.75
Rat no. 3	1.2	6	4	2
Rat no. 4	1.8	5	5	4
Rat no. 5	1.2	7.1	6.2	5.25
Rat no. 6	5.15	6.4	6	3

Akinesia 14				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	2	6.85	6.1	4.5
Rat no. 2	1	6	5	4.35
Rat no. 3	1.6	3.59	4.45	3
Rat no. 4	0.9	6.1	6.45	2.55
Rat no. 5	1.45	3.1	5	2
Rat no. 6	2.1	5.1	5	3

Akinesia 21				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	1.9	5	5	2.5
Rat no. 2	1	6.2	5.65	1.8
Rat no. 3	1.3	4	4.8	1.56
Rat no. 4	2	5	4.8	2.85
Rat no. 5	1.6	3.9	5	2.5
Rat no. 6	2.4	6.1	6	2

The raw data of the total time to cross the beam (Bradykinesia time (S)) in different groups on days 7, 14, and 21 after injection of CDNF or vehicle. n=6 per each group (OH: 6-OHDA; CDNF: cerebral dopamine neurotrophic factor). Each line corresponds to one rat.

Bradykinesia7				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	4.45	8	9.8	8.5
Rat no. 2	3.55	7.5	8.9	7
Rat no. 3	7.74	10	10.1	6.8
Rat no. 4	6	12	10.8	8.5
Rat no. 5	5	13.9	8	8.8
Rat no. 6	4.5	9	9.1	6.6

Bradykinesia14				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	7	10	11	8
Rat no. 2	5	10	12.85	4
Rat no. 3	3	12.5	13	7.65
Rat no. 4	3	7.98	10	6
Rat no. 5	9.2	12	9.35	9.35
Rat no. 6	4	15	14	4

Bradykinesia21				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	6	13	12	6
Rat no. 2	4.7	12	11	5
Rat no. 3	4.8	10	13.5	7
Rat no. 4	8.7	14	10	6
Rat no. 5	9.25	14.25	14.5	7.2
Rat no. 6	4.05	8.75	9.5	4.8

The raw data of the number of BrdU+ cells in six series of coronal sections per rats in different groups on days 7, 14, and 21 after injection of CDNF or vehicle. n=6 per each group (OH: 6-OHDA; CDNF: cerebral dopamine neurotrophic factor). Each line corresponds to one rat.

BrdU7				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	39.08	32.8	39	79
Rat no. 2	32.18	52.7	48	99
Rat no. 3	60.04	58	50	91
Rat no. 4	47.2	49	48	82
Rat no. 5	33.72	60	58.8	96.05
Rat no. 6	58.9	34	46.2	77.95

BrdU14				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	47.09	29	21	58
Rat no. 2	21.22	47	39.62	88.03
Rat no. 3	45	44.11	41	79
Rat no. 4	37	36	37	66.97
Rat no. 5	25.91	23	32	61
Rat no. 6	29	24.89	22.88	85

BrdU21				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	18.25	17	26	59
Rat no. 2	21.05	37.95	35.1	74
Rat no. 3	39.85	34.75	30.5	66
Rat no. 4	37	28	28	68.1
Rat no. 5	28.95	19	21	61.95
Rat no. 6	31.95	20	19.9	81.05

The raw data of the number of DCX+ cells in six series of coronal sections per rats in different groups on days 7, 14, and 21 after injection of CDFN or vehicle. n=6 per each group (OH: 6-OHDA; CDFN: cerebral dopamine neurotrophic factor). Each line corresponds to one rat.

DCX7				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	21	18	20	54
Rat no. 2	20.7	20.9	19.4	56.4
Rat no. 3	20.85	16	21	60
Rat no. 4	21.95	16.3	17.5	55
Rat no. 5	20.5	19.8	19	53
Rat no. 6	21	17	17.1	51.6

DCX14				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	23	19.75	22	67
Rat no. 2	25.85	18	21	66.15
Rat no. 3	22.15	17.25	23.45	64
Rat no. 4	23	23	19.35	56
Rat no. 5	22	17	18.2	56.85
Rat no. 6	22	19	16	62

DCX21				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	27	24.95	23	86.55
Rat no. 2	26	23	26.75	81
Rat no. 3	23.1	17.05	18.25	71
Rat no. 4	25	19	20	74
Rat no. 5	27	22	21	72.45
Rat no. 6	27.9	26	23	77

The raw data of the number of BrdU+/DCX + cells in six series of coronal sections per rats in different groups on days 7, 14, and 21 after injection of CDFN or vehicle. n=6 per each group (OH: 6-OHDA; CDFN: cerebral dopamine neurotrophic factor). Each line corresponds to one rat.

BrdU/DCX7				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	17	17	16	31.5
Rat no. 2	9	16.95	14.36	28.75
Rat no. 3	18	21	14	30
Rat no. 4	14	12	14	26
Rat no. 5	11	10.05	12.64	27.75
Rat no. 6	15	13	13	24

BrdU/DCX14				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	16.5	12	15	33
Rat no. 2	24	13.4	15	33
Rat no. 3	13.5	10.6	18	31
Rat no. 4	10	9	20	31
Rat no. 5	20	12	21	29
Rat no. 6	12	15	19	35

BrdU/DCX21				
Animal number	Sham	OH	OH+Vehicle	OH+CDNF
Rat no. 1	16	13.5	15	45
Rat no. 2	18	13.45	17	43.15
Rat no. 3	9	8.05	11	38.85
Rat no. 4	13	9	12.55	38
Rat no. 5	9	12	9.45	41
Rat no. 6	13	10	13	40