

Tables S1 to S4 to be submitted as online only Supporting Information

Table S1:

	P14			P21			P90		
	GAERS	NEC	WH	GAERS	NEC	WH	GAERS	NEC	WH
Calleja Island	469.9 ± 38.4	325.7 ± 60.2	323.2 ± 55.5	600.5 ± 6.3	417.0 ± 33.2	451.2 ± 33.1	384.1 ± 34.7	259.4 ± 24.3	294.4 ± 17.5
Olfactory tubercles	<u>283.5 ± 14.7</u>	162.0 ± 19.9	210.4 ± 12.3	352.5 ± 9.8	238.0 ± 20.6	245.6 ± 16.4	301.6 ± 8.4	229.5 ± 10.1	201.6 ± 14.4
Somatosensory cortex	<u>90.4 ± 3.0</u>	48.7 ± 8.0	<u>86.1 ± 5.3</u>	73.9 ± 4.3	55.6 ± 10.5	51.0 ± 7.1	54.8 ± 5.2	41.2 ± 4.3	45.6 ± 5.5
motor cortex	<u>125.2 ± 6.3</u>	74.8 ± 9.2	<u>120.6 ± 6.2</u>	92.2 ± 4.3*	68.5 ± 10.2	61.2 ± 8.0	60.3 ± 4.1	48 ± 4.5	46.6 ± 6.5
NAcc core	202.5 ± 13.1	114.3 ± 13.2	138 ± 6.4	<u>262.0 ± 32.9</u>	164.1 ± 12.6	223.3 ± 17.8	<u>237.3 ± 12.0</u>	141.5 ± 13.8	204.1 ± 11.1
NAcc shell	<u>204.2 ± 12.9</u>	107.2 ± 9.8	170.7 ± 17.7	424.4 ± 57.5	377.5 ± 31.1	394.5 ± 52.5	<u>465.3 ± 36.9</u>	267.8 ± 21.2	319.8 ± 25.2
Striatum	<u>103.2 ± 4.2</u>	56.2 ± 7.4	89.1 ± 1.5	<u>97.5 ± 2.4</u>	63.7 ± 5.2	79.2 ± 5.3	<u>102.6 ± 5.9</u>	71.8 ± 2.9	<u>92.8 ± 4.8</u>

Table S1: D3 receptor density as measured by [¹²³I]PIPAT autoradiography in brain slices of GAERS, NEC and WH at P14, P21 and P90 (n=7 for each strain at the different ages). Data are expressed as mean optical density ± SEM. Data in shaded grey, highlight significant differences as compared to NEC and WH; data underlined highlight significant differences as compared to NEC only; asterisks (*) highlight significant differences as compared to WH only ($p < 0.05$; Kruskal-Wallis and Dunn's test).

Table S2:

BDNF (pg/mg prot.)	GAERS (n=9)	WH (n=9)	NEC (n=9)
Motor cortex	7.19 ± 1.25	9.01 ± 1.55	5.43 ± 0.66
Somatosensory cortex	6.74 ± 0.76	7.18 ± 1.21	6.59 ± 0.77
Striatum	8.62 ± 1.08	9.79 ± 1.23	8.31 ± 1.13
Nucleus accumbens	12.21 ± 1.67	14.05 ± 2.11	10.40 ± 0.86
Hippocampus	13.78 ± 1.55	13.69 ± 2.50	11.02 ± 1.55
SNC/VTA	6.45 ± 0.77	5.96 ± 0.53	4.96 ± 0.60
Amygdala	11.83 ± 2.22	7.83 ± 1.24	8.05 ± 1.27
Ventrobasal thalamus	10.60 ± 2.49	11.70 ± 1.32	11.97 ± 1.59

Table S2: BDNF expression in GAERS, WH, and NEC. Data are expressed as mean BDNF concentration ± S.E.M. in different structures (SNC/VTA: substantia nigra pars compacta and ventral tegmental area). Concentrations are given in pg/mg protein weight.

Online supplementary document

Table S3:

	P14			P21			P90		
	GAERS	NEC	WH	GAERS	NEC	WH	GAERS	NEC	WH
Olfactory tubercles	193.3 ± 0.7	183.2 ± 1.3	185 ± 1.3	173.1 ± 0.8	173.8 ± 1.5	172.7 ± 1.6	183.1 ± 5.4	182.5 ± 5.4	177 ± 4.9
Somatosensory cortex	186.9 ± 1.0	183.9 ± 2.2	184.6 ± 1.1	163.7 ± 0.4*	162 ± 0.6	160.1 ± 0.7	162.9 ± 5.4	164.3 ± 6.1	157.3 ± 4.6
N.Acc core	195.6 ± 1.3	188.7 ± 1.2	188.7 ± 1.4	<u>185.6 ± 0.7</u>	182.9 ± 0.8	183.8 ± 0.7	186.6 ± 4.8	185 ± 4.7	181.3 ± 3.9
N.Acc shell	195.4 ± 1.1	186.7 ± 1.1	187.6 ± 1.1	178.9 ± 0.6	177.1 ± 0.9	177.1 ± 0.9	185.2 ± 5.1	181 ± 4.7	177.5 ± 4.7
Striatum	200.9 ± 1.2	194.1 ± 1.3	192.1 ± 2.1	194.5 ± 0.8	193.4 ± 0.8	193 ± 0.7	197.3 ± 5.1	196.1 ± 5.6	191.6 ± 4.6

Table S3: Dopamine transporter density as measured by [³H]GBR12935 autoradiography in brain slices of GAERS, NEC and WH at P14 (n=7, n=5 and n=7), P21 (n=10, n=7 and n=6) and at P90 (n=6, n=5 and n=7), respectively. Data are expressed as mean optical density ± SEM. Data in shaded grey, highlight significant differences as compared to NEC and WH; data underlined highlight significant differences as compared to NEC only; asterisks (*) highlight significant differences as compared to WH only ($p < 0.05$; Kruskal-Wallis and Dunn's test).

Table S4:

Tissular dopamine (ng/mg prot.)	GAERS (n=6)	WH (n=6)	NEC (n=6)
Motor cortex	1.39 ± 0.22	0.93 ± 0.14	0.70 ± 0.17
Somatosensory cortex	0.58 ± 0.26	0.67 ± 0.16	0.49 ± 0.10
Striatum	252.05 ± 13.18	262.05 ± 5.66	210.18 ± 6.89*
Nucleus accumbens	168.44 ± 7.33	212.74 ± 35.23	131.64 ± 9.19
Hippocampus	0.45 ± 0.26	0.23 ± 0.03	0.60 ± 0.22
SNc/VTA	24.23 ± 3.26	21.29 ± 2.77	21.29 ± 2.96
Amygdala	9.46 ± 1.30	9.04 ± 2.30	8.54 ± 1.77
Ventrobasal thalamus	0.46 ± 0.12	0.54 ± 0.15	0.56 ± 0.08

Table S4: Dopamine tissular contents in GAERS, WH, and NEC. Data are expressed as mean dopamine concentration ± S.E.M. in different structures (SNc/VTA: substantia nigra pars compacta and ventral tegmental area). Concentrations are given in ng/mg protein weight (* $p < 0.05$ vs WH; Kruskal-Wallis and Dunn's test).