

SUPPLEMENTARY TABLE S4. Overview of BDNF level in brain, by sex and group, and P-Value for sex and group effects.

FNDC5/Irisin or BDNF level determined by western blotting and expressed relative to CTRL-Male. Data are mean \pm S.E.M. Values were compared with a two-way ANOVA with Tukey post-hoc test.

BDNF		CTRL male	CTRL female	SMR male	SMR female	P value (sex effect)	P value (group effect)
Prefrontal cortex	P8	1.00 \pm 0.28	0.92 \pm 0.25	0.57 \pm 0.11	0.77 \pm 0.19	0.7807	0.1934
	P15	1.00 \pm 0.06	1.10 \pm 0.28	1.12 \pm 0.13	1.18 \pm 0.09	0.6159	0.5289
	P21	1.00 \pm 0.07	1.90 \pm 0.14	1.13 \pm 0.14	0.87 \pm 0.15	0.5139	0.7267
	P28	1.00 \pm 0.05	1.05 \pm 0.09	1.00 \pm 0.23	0.96 \pm 0.13	0.9544	0.7526
Sensorimotor cortex	P8	1.00 \pm 0.25	1.06 \pm 0.05	1.29 \pm 0.20	1.18 \pm 0.10	0.8433	0.1978
	P15	1.00 \pm 0.25	0.95 \pm 0.23	0.89 \pm 0.34	1.16 \pm 0.39	0.7313	0.8720
	P21	1.00 \pm 0.13	1.29 \pm 0.13	1.11 \pm 0.15	1.22 \pm 0.18	0.1945	0.9131
	P28	1.00 \pm 0.27	0.96 \pm 0.20	1.09 \pm 0.25	0.85 \pm 0.16	0.5447	0.9516
Hippocampus	P8	1.00 \pm 0.24	0.97 \pm 0.29	1.65 \pm 0.27	1.56 \pm 0.36	0.8442	0.0512
	P15	1.00 \pm 0.13	1.05 \pm 0.07	1.13 \pm 0.24	0.97 \pm 0.09	0.7091	0.8748
	P21	1.00 \pm 0.16	0.94 \pm 0.08	0.91 \pm 0.20	1.08 \pm 0.40	0.8356	0.9248
	P28	1.00 \pm 0.11	0.75 \pm 0.04	0.77 \pm 0.16	0.74 \pm 0.07	0.1888	0.2854
Striatum	P8	1.00 \pm 0.21	0.84 \pm 0.23	0.76 \pm 0.14	0.83 \pm 0.11	0.7981	0.5200
	P15	1.00 \pm 0.13	1.00 \pm 0.10	1.26 \pm 0.14	1.12 \pm 0.10	0.5602	0.1179
	P21	1.00 \pm 0.04	0.83 \pm 0.11	1.14 \pm 0.14	0.81 \pm 0.12	0.0625	0.6429
	P28	1.00 \pm 0.05	0.84 \pm 0.06	1.12 \pm 0.11	0.97 \pm 0.14	0.1417	0.2451