

Group		Weight (g)											
Initial weight	Control	28.10	28.51	28.46	28.52	28.57	28.97	28.67	28.11	28.14	28.60	28.78	28.25
	HFD	28.10	28.40	28.39	28.55	28.09	28.18	28.27	28.75	28.48	28.04	28.17	28.67
	HFD+Jlus66	28.54	28.96	28.99	28.70	28.46	28.75	28.66	28.90	28.87	28.23	28.72	28.48
Final weight	Control	34.57	34.94	34.97	34.94	35.02	35.46	35.09	34.54	34.67	35.06	35.21	34.65
	HFD	44.95	45.20	45.28	45.40	44.92	44.99	45.11	45.66	45.38	44.92	44.99	45.52
	HFD+Jlus66	10.83	41.21	41.32	41.06	40.71	41.03	40.92	41.17	41.10	40.49	41.02	40.72
Body weight gain	Control	6.47	6.43	6.51	6.42	6.45	6.49	6.42	6.43	6.53	6.46	6.43	6.40
	HFD	16.85	16.80	16.89	16.85	16.83	16.81	16.84	16.91	16.90	16.88	16.82	16.85
	HFD+Jlus66	12.29	12.25	12.33	12.36	12.25	12.28	12.26	12.27	12.23	12.26	12.30	12.24

Group		Plasma lipid content (mM)											
TC	Control	2.92	3.00	2.92	2.94	2.98	2.89	2.91	2.85	3.01	2.99	2.95	2.96
	HFD	3.94	4.21	3.85	3.97	3.89	3.96	3.98	4.01	4.05	4.11	4.06	3.99
	HFD+Jlus66	3.63	3.10	3.72	3.49	3.51	3.44	3.50	3.53	3.51	3.46	3.47	3.48
TG	Control	0.31	0.37	0.36	0.34	0.35	0.31	0.35	0.39	0.37	0.35	0.36	0.32
	HFD	0.57	0.78	0.87	0.73	0.78	0.76	0.71	0.73	0.79	0.71	0.78	0.72
	HFD+Jlus66	0.34	0.37	0.41	0.36	0.39	0.38	0.36	0.39	0.40	0.35	0.36	0.35
HDL-C	Control	3.54	3.57	3.68	3.58	3.62	3.59	3.60	3.62	3.57	3.62	3.63	3.57
	HFD	2.36	2.01	2.59	2.31	2.32	2.36	2.29	2.26	2.35	2.31	2.34	2.27
	HFD+Jlus66	3.16	3.18	3.26	3.10	3.30	3.40	3.20	3.09	3.20	3.19	3.23	3.27
LDL-C	Control	0.33	0.35	0.43	0.36	0.35	0.39	0.37	0.35	0.34	0.40	0.38	0.39
	HFD	0.51	0.92	0.85	0.78	0.76	0.75	0.80	0.74	0.73	0.82	0.73	0.74
	HFD+Jlus66	0.53	0.59	0.60	0.59	0.56	0.55	0.61	0.54	0.58	0.59	0.54	0.61

Group		Escape Latency (s)											
Day1	Control	60.00	48.35	47.33	42.84	52.09	39.96	39.30	52.66	57.94	39.90	28.39	47.86
	HFD	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	53.63	60.00
	HFD+Jlus66	50.80	37.76	60.00	60.00	60.00	60.00	60.00	58.04	46.36	59.96	47.15	54.55
Day2	Control	48.84	25.81	39.71	42.78	33.34	25.31	23.95	40.04	26.99	54.16	34.87	17.14
	HFD	60.00	60.00	60.00	56.29	60.00	60.00	56.63	60.00	43.48	46.85	60.00	45.74
	HFD+Jlus66	60.00	38.42	34.09	35.53	35.50	38.27	46.70	60.00	32.64	54.21	47.33	43.88
Day3	Control	11.28	28.08	33.73	30.21	41.88	45.00	40.48	31.18	26.29	42.70	24.36	46.40
	HFD	46.53	55.59	60.00	46.71	60.00	60.00	60.00	48.34	47.01	60.00	60.00	35.54
	HFD+Jlus66	44.54	34.30	19.17	33.28	39.87	45.53	44.44	49.99	58.39	55.00	46.38	42.80
Day4	Control	12.13	30.00	26.44	22.55	38.14	21.85	42.91	25.46	36.48	39.75	38.47	35.19
	HFD	60.00	57.59	36.68	60.00	60.00	60.00	60.00	60.00	60.00	59.98	60.00	60.00
	HFD+Jlus66	39.56	33.45	25.84	38.91	35.59	36.51	40.89	50.02	57.61	54.99	47.60	41.91
Day5	Control	35.61	33.34	29.58	36.31	11.69	39.54	29.67	34.88	30.00	31.48	37.64	25.70
	HFD	60.00	60.00	60.00	51.89	60.00	60.00	47.07	58.57	42.91	45.78	60.00	60.00
	HFD+Jlus66	43.45	35.28	18.27	34.32	39.87	43.35	42.29	47.59	53.45	55.06	46.35	41.75

Control	The proportion of distance in the target quadrant (%)		Time spent in the target quadrant (s)			Number of platform crossings		
	HFD	HFD+Jlus66	Control	HFD	HFD+Jlus66	Control	HFD	HFD+Jlus66
41.00	25.00	42.00	14.17	6.68	19.68	1.00	1.00	3.00
43.00	24.00	46.00	19.30	13.22	15.49	2.00	1.00	2.00
45.00	23.00	45.00	13.49	0.00	16.93	2.00	0.00	2.00
48.00	28.00	47.00	16.55	3.73	9.99	3.00	1.00	3.00
45.00	26.00	49.00	24.99	0.00	23.72	2.00	0.00	2.00
40.00	27.00	46.00	14.25	10.54	9.39	3.00	1.00	5.00
45.00	19.00	42.00	26.69	0.00	2.43	3.00	2.00	4.00
45.00	21.00	42.00	10.10	4.86	23.06	2.00	1.00	2.00
46.00	28.00	41.00	12.49	9.70	19.65	5.00	0.00	3.00
42.00	21.00	48.00	21.10	4.10	17.52	4.00	2.00	2.00
49.00	25.00	39.00	13.56	13.14	10.70	5.00	1.00	2.00
43.00	27.00	44.27	15.83	1.34	15.32	5.00	0.00	3.00

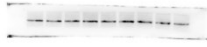
mRNA levels (Density relative to GAPDH)

	Control			HFD			HFD+Jlus66		
<i>Bdnf</i>	0.94	1.07	1.00	0.55	0.59	0.61	0.91	0.93	1.10
<i>Ngf</i>	1.03	1.03	0.95	0.50	0.46	0.41	0.92	0.88	1.18
<i>Nt3</i>	1.18	0.92	0.92	0.49	0.20	0.45	1.30	1.13	1.55
<i>Nt4</i>	1.10	1.03	0.89	0.46	0.39	0.42	1.57	1.68	2.44
<i>Psd95</i>	1.02	0.96	1.02	0.85	0.80	0.82	2.46	1.54	2.14
<i>Snap25</i>	0.94	1.06	1.00	0.51	0.45	0.38	1.62	1.64	1.73
<i>Inos</i>	0.99	0.91	1.11	1.39	1.41	1.37	0.72	0.58	0.57
<i>Cox-2</i>	1.11	1.10	0.82	1.14	1.36	1.67	0.53	0.52	0.70
<i>Il-6</i>	1.07	1.07	0.87	1.73	1.77	1.77	1.22	1.24	1.10

protein expression (Density relative to Control)

	Control			HFD			HFD+Jlus66		
BDNF/ β -actin	1.08	1.06	1.23	0.93	0.97	0.82	1.25	1.21	1.25
PSD95/ β -actin	1.30	0.98	0.92	0.51	0.50	0.53	0.94	0.91	0.99
SNAP25/ β -actin	0.91	0.83	0.82	0.73	0.43	0.44	1.85	1.29	1.79
p-IRS-1 S ³⁰⁷ /IRS-1	0.85	0.73	0.87	1.59	1.56	1.69	0.81	0.69	0.75
p-IRS-1 Y ⁶¹² /IRS-1	1.02	1.02	1.09	0.35	0.37	0.33	1.30	1.20	1.31
p-GSK3 β /GSK3 β	1.23	1.21	1.23	0.48	0.41	0.43	1.24	1.22	1.22
p-AKT/AKT	1.11	1.20	1.20	0.65	0.69	0.50	1.23	1.22	1.19
Glut4/ β -actin	1.39	1.39	1.41	0.42	0.43	0.43	1.37	1.38	1.34
PTP1B/ β -actin	1.01	1.01	1.09	1.96	2.71	2.92	1.21	1.21	1.34
p-JNK/JNK	0.97	0.99	0.98	1.29	1.52	1.87	0.88	0.80	0.96
p-p38/p38	0.75	0.84	1.03	1.69	1.67	1.65	1.15	1.03	1.01

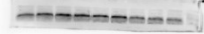
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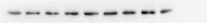
RONF



GLUT4



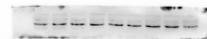
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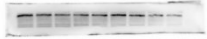
JNK



GSK-3 β



p-AKT



p-IRS-1 Y612



p-IRS-S307



p-GSK-3 β



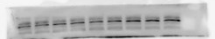
p-JNK



p38



p-p38



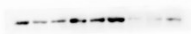
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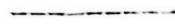
PTP1B



SNAP25



β -actin



β -tubulin



