

Table S1. Body Weight

Group	Cage	Mouse ID	Weight (g)								
			8wk	12wk	16wk	20wk	23wk	24wk	32wk	36wk	
			11.19.14	12.15.14	1.13.15	02.11.2015	03.02.2015	3.11.15	5.5.2015	05.29.2015	
SD	AA	A	19.16	23.88	26.0	28.05	28.0	30.03	x	37.8	
	AA	B	27.27	32.04	35.0	26.57	38.0	36.72	x	x	
	AA	C	22.97	26.72	29.8	35.39	32.1	31.32	x	38.3	
	AA	D	22.48	26.83	27.3	29.42	29.3	28.58	x	x	
	AA	F	22.09	24.82	x	29.67	31.0	29.08	x	34.1	
	BB	A	21.75	25.42	27.8	29.68	31.5	28.82	x	30.6	
	BB	B	24.11	28.32	30.8	32.1	33.3	31.62	x	39.6	
	BB	C	24.30	27.47	30.7	33.78	34.6	33.47	x	40.3	
	BB	D	21.29	24.15	26.000	27.91	29.2	28.0	x	33.8	
	BB	F	21.42	24.28	x	27.43	29.2	28.67	x	35.1	
	CC	A	29.44	40.36	49.5	39.61	43.0	41.74	x	49.4	
	CC	C	23.11	28.09	32.7	50.51	50.9	49.61	x	57.8	
CC	E	24.57	30.06	35.1	50.31	51.6	49.49	x	59.2		
DIO	DD	A	23.42	27.65	31.2	55.41	56.3	54.63	x	64.3	
	DD	C	26.8	37.22	46.1	38.81	43.0	38.68	x	51.4	
	DD	E	30.28	35.61	41.2	42.2	46.2	44.13	x	51.0	
	EE	B	23.4	26.52	29.2	37.87	43.1	39.09	x	50.8	
	EE	E	23.65	27.07	30.6	34.89	38.5	36.61	x	46.9	
	FF	B	26.88	35.47	x	51.58	51.2	51.5	x	46.9	
	FF	E	24.82	30.65	x	44.23	49.3	48.95	x	55.5	
	DIO-STZ	GG	A	23.75	30.08	34.6	40.63	43.7	43.03	50.2	54.8
		GG	C	27.56	34.81	38.3	42.87	45.3	43.32	54	57.5
		GG	E	23.61	28.19	29.6	34.26	35.9	36.30	35.1	43.2
		HH	A	28.5	39.98	42.6	47.64	50.0	43.03	x	x
		HH	C	26.08	36.85	39.5	44.43	45.7	43.65	52.3	56.0
HH		D	26.19	36.38	39.8	45.27	45.7	45.59	50	53.0	
II		B	27.55	36.2	36.2	40.81	43.4	42.14	53	53.8	
II		E	24.57	32.14	33.7	38.35	41.2	40.41	50.8	53.3	
JJ		B	23.85	29.9	x	41.27	42.8	41.65	53.3	57.0	
JJ		E	24.09	29.58	x	37.27	38.5	38.3	44.5	47.4	

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary
8wk				
SD vs. HF	-2.953	-7.513 to 1.607	No	ns
SD vs. HF-STZ	-2.891	-7.451 to 1.669	No	ns
HF vs. HF-STZ	0.062	-4.498 to 4.622	No	ns
12wk				
SD vs. HF	-5.477	-10.04 to -0.9173	Yes	*
SD vs. HF-STZ	-7.018	-11.58 to -2.458	Yes	**
HF vs. HF-STZ	-1.541	-6.101 to 3.019	No	ns
16wk				
SD vs. HF	-7.775	-12.87 to -2.677	Yes	**
SD vs. HF-STZ	-7.613	-12.71 to -2.515	Yes	**
HF vs. HF-STZ	0.1625	-4.935 to 5.26	No	ns
20wk				
SD vs. HF	-14.54	-19.1 to -9.982	Yes	****
SD vs. HF-STZ	-11.28	-15.84 to -6.72	Yes	****
HF vs. HF-STZ	3.262	-1.298 to 7.822	No	ns
24wk				
SD vs. HF	-15.69	-20.25 to -11.13	Yes	****
SD vs. HF-STZ	-11.6	-16.16 to -7.04	Yes	****
HF vs. HF-STZ	4.09	-0.4697 to 8.65	No	ns
36wk				
SD vs. HF	-17.12	-21.96 to -12.28	Yes	****
SD vs. HF-STZ	-16.69	-21.64 to -11.73	Yes	****
HF vs. HF-STZ	0.4311	-4.253 to 5.116	No	ns

	Age (wk)	8	12	16	20	23	24	32	36
Ctrl	Average (g)	22.7	26.4	29.2	30.0	31.6	30.6	x	36.2
	StDev	2.2	2.5	3.0	2.9	3.0	2.7	x	3.3
	n	10	10	8	10	10	10	x	8
	StError	0.691	0.791	1.076	0.912	0.962	0.867	x	1.181
	Max threshold	27.05	31.39	35.26	35.77	37.70	36.11	x	42.90
	Min threshold	18.31	21.39	23.09	24.23	25.54	25.15	x	29.54
DIO	Average (g)	25.6	31.9	37.0	44.5	47.3	45.4	x	53.3
	StDev	2.6	4.9	7.7	7.0	5.4	6.2	x	5.7
	n	10	10	8	10	10	10	x	10
	StError	0.582	1.550	2.720	2.203	1.716	1.963	x	1.801
	Max threshold	30.84	41.67	52.33	58.48	58.16	57.86	x	64.71
	Min threshold	20.43	22.07	21.57	30.61	36.46	33.03	x	41.93
DIO-STZ	Average (g)	25.6	33.4	36.8	41.3	43.2	41.7	49.2	52.9
	StDev	1.8	4.0	4.1	4.0	4.0	2.7	6.0	4.7
	n	10	10	8	10	10	10	9	9
	StError	0.581	1.249	1.457	1.262	1.260	0.867	2.003	1.569
	Max threshold	29.25	41.31	45.03	49.26	51.19	47.23	61.26	62.28
	Min threshold	21.90	25.51	28.55	33.30	35.25	36.26	37.22	43.46

Table S2. Fasting Glucose

Group	Cage	Mouse ID	Fasting glucose (mg/dL)					
			12wk	16wk	20wk	24wk	32wk	36wk
				01.14.2015	02.11.2015	03.02.2015	05.05.2015	05.29.2015
SD	AA	A		169	136	131	x	225
	AA	B		278	202	172	x	x
	AA	C		248	213	165	x	223
	AA	D		252	183	160	x	x
	AA	F		x	192	86	x	210
	BB	A		259	211	197	x	155
	BB	B		231	225	249	x	218
	BB	C		229	183	218	x	201
	BB	D		244	149	228	x	171
	BB	F		x	218	234	x	219
DIO	CC	A		402	251	309	x	212
	CC	C		270	260	242	x	244
	CC	E		259	258	283	x	214
	DD	A		309	248	177	x	221
	DD	C		405	299	241	x	287
	DD	E		345	278	281	x	273
	EE	B		193	218	276	x	238
	EE	C		254	229	258	x	270
	FF	B		x	272	302	x	154
	FF	E		x	224	324	x	222
DIO-STZ	GG	A	STZ injection	477	458	715	487	426
	GG	C		605	468	637	528	287
	GG	E		369	252	318	425	334
	HH	A		483	514	585	x	x
	HH	C		597	522	567	505	449
	HH	D		574	509	622	522	565
	II	B		440	438	545	367	371
	II	E		620	433	532	359	324
	JJ	B		x	627	574	613	475
	JJ	E		x	592	636	439	608

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary
16.				
SD vs. HF	-65.88	-147.5 to 15.75	No	ns
SD vs. HF-STZ	-281.9	-363.5 to -200.2	Yes	****
HF vs. HF-STZ	-216	-297.6 to -134.4	Yes	****
20.				
SD vs. HF	-62.5	-135.5 to 10.51	No	ns
SD vs. HF-STZ	-290.1	-363.1 to -217.1	Yes	****
HF vs. HF-STZ	-227.6	-300.6 to -154.6	Yes	****
24.				
SD vs. HF	-85.3	-158.3 to -12.29	Yes	*
SD vs. HF-STZ	-389.1	-462.1 to -316.1	Yes	****
HF vs. HF-STZ	-303.8	-376.8 to -230.8	Yes	****
36.				
SD vs. HF	-30.75	-108.2 to 46.69	No	ns
SD vs. HF-STZ	-223.8	-303.1 to -144.5	Yes	****
HF vs. HF-STZ	-193.1	-268.1 to -118	Yes	****

	Age (wk)	16	20	24	32	36
Ctrl	Average (g)	238.8	191.2	184.0	x	202.8
	StDev	32.2	29.5	51.1	x	26.0
	n	8	10	10	x	8
	StError	11.4	9.3	16.2	x	9.2
	Max threshold	303.2	250.1	286.2	x	254.8
	Min threshold	174.3	132.3	81.8	x	150.7
DIO	Average (g)	304.6	253.7	269.3	x	233.5
	StDev	75.1	25.5	42.4	x	38.5
	n	8	10	10	x	10
	StError	26.562	8.057	13.416	x	15.715
	Max threshold	454.9	304.7	354.2	x	310.5
	Min threshold	154.4	202.7	184.4	x	156.5
DIO-STZ	Average (g)	520.6	481.3	573.1	471.7	426.6
	StDev	91.4	102.5	104.5	82.1	109.9
	n	8	10	10	9	7
	StError	32.3	32.4	33.0	27.4	41.5
	Max threshold	703.4	686.2	782.1	635.9	646.3
	Min threshold	337.8	276.4	364.1	307.5	206.8

Table S3. Plasma Insulin

Group	Mouse ID#	Insulin (ng/ml)
SD	3268	2.469
	3270	2.320
	3272	2.267
	3273	0.590
	3274	1.350
	3275	2.569
	3276	0.621
	3277	2.071
DIO	3280	10.440
	3281	11.594
	3282	8.211
	3283	7.498
	3284	9.827
	3285	11.610
	3286	0.729
	3287	4.133
DIO-STZ	3288	1.765
	3289	1.099
	3292	1.356
	3293	1.257
	3294	1.226
	3295	1.934
	3296	1.478
	3297	1.318
	3290	1.127

Brown-Forsythe test					
F (DFn, DFd)	7.554 (2, 22)				
P value	0.0032				
P value summary	**				
Are SDs significantly different (P < 0.05)?	Yes				
→ log2 transform data and retest					
Brown-Forsythe test					
F (DFn, DFd)	1.157 (2, 22)				
P value	0.3328				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
→ Proceed with ordinary 1-way ANOVA					
Tukey's multiple comparisons test					
Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value	
SD vs. DIO	-2.025	-3.189 to -0.8605	Yes	***	0.0007
SD vs. DIO-STZ	0.1804	-0.9508 to 1.312	No	ns	0.9157
DIO vs. DIO-STZ	2.205	1.074 to 3.336	Yes	***	0.0002

Group	SD	DIO	DIO-STZ
1	2.469	10.440	1.765
2	2.320	11.594	1.099
3	2.267	8.211	1.356
4	0.590	7.498	1.257
5	1.350	9.827	1.226
6	2.569	11.610	1.934
7	0.621	0.729	1.478
8	2.071	4.133	1.318
9	x	x	1.127
Average (g)	1.782	8.005	1.429
StDev	0.816	3.843	0.285
n	8	8	9
StError	0.288	1.359	0.095
Max threshold	3.41	15.69	2.00
Min threshold	0.15	0.32	0.86

Table S4.

New Glucose Tolerance Testing		Time (min)												
Animal ID	Tail Mark	BW (g)	0	15	30	60	120	180*	SD			DIO		
AA	A	28	190	451	483	522	246	316	710	750	750	750	750	653
AA	R	38	177	471	390	441	292	327	591	715	500	365	488	581
AA	C	52.1	194	540	525	361	269	247						
AA	D	29.3	193	477	661	466	250	172						
AA	F	31	185	546	711	470	236	114						
BB	A	31.5	222	507	281	241	162	152						
BB	B	33.3	197	446	376	323	238	210						
BB	C	34.6	205	610	401	294	216	200						
BB	D	29.2	218	679	323	296	214	195						
BB	F	29.2	245	678	526	380	236	205						
CC	A	43	316	710	750	750	750	565	217					
CC	C	50.9	327	591	715	590	465	224						
CC	E	51.6	357	706	750	750	619	320						
DD	A	56.3	309	349	319	367	269	249						
DD	C	43	296	750	750	750	750	750						
DD	E	46.2	428	632	750	739	373	229						
EE	B	43.1	341	643	727	740	493	267						
EE	E	38.5	298	379	622	710	572	265						
FF	B	31.2	296	661	728	651	539	244						
FF	E	49.3	378	611	750	750	580	267						
GG	A	43.7	515	750	750	750	663	538						
GG	C	45.5	488	661	750	750	581	650						
GG	E	35.9	356	750	750	719	369	261						
HH	A	50	503	750	750	750	750	710						
HH	C	45.7	484	728	750	750	701	653						
HH	D	45.7	647	750	750	750	643	517						
II	B	43.4	423	750	750	750	689	611						
II	E	41.2	514	750	750	750	472	419						
JJ	B	42.8	719	750	750	750	706	620						
JJ	E	38.5	723	750	750	750	750	661						

* An additional recording was taken at 180 min to ensure that glucose levels were returning to normal in mice with FG > 750mg/dL.

* Comparative statistics not performed as several recorded measures were above the level of detection (any readings > 750 gave a reading of 'H')

	DIO - STZ												
	0	15	30	60	120	180	210	240	270	300	330	360	390
1	190	451	483	522	246	316	710	750	750	565	515	750	750
2	177	471	390	441	292	327	591	715	500	365	488	581	750
3	194	540	525	361	269	247							
4	193	477	661	466	250	172							
5	185	546	711	470	236	114							
6	222	507	281	241	162	152							
7	197	446	376	323	238	210							
8	205	610	401	294	216	200							
9	218	679	323	296	214	195							
10	205	678	526	380	236	205							
Mean	202.6	540.5	448.1	377.4	235.9	334.6	634.625	724	710	513.25	537.2	739.1	750
St Dev	20.4	88.5	174.3	92.6	34.8	42.9	104.7	43.4	59.1	96.0	121.5	27.6	0.0
St Error	6.4	27.9	58.0	30.9	12.3	13.6	33.1	13.7	18.7	30.4	38.4	8.7	0.0
Max threshold	243.4	716.7	796.2	562.5	305.5	420.3	826.1	810.9	829.1	705.2	780.3	794.3	750.0
Min threshold	161.8	364.3	100.0	192.3	166.3	248.9	407.2	637.1	591.9	321.3	294.1	683.9	750.0

Time	Comparison	Mean Diff	95.00% CI of diff	Significant?	Summary	Adjusted P Value		
0 min	Tukey's multiple comparisons test							
	SD vs. DIO	-132	-215.5 to -48.47	Yes	**	<0.0001 A,B		
	SD vs. DIO -STZ	-158.6	-438.1 to -29.1	Yes	****	<0.0001 A,C		
	DIO vs. DIO -STZ	-202.6	-285.1 to -119.1	Yes	****	<0.0001 B,C		
	Test details	Mean 1	Mean 2	Mean Diff	SE of diff	n1	n2	q
15 min	Tukey's multiple comparisons test							
	SD vs. DIO	-76.13	-168.3 to 16.46	No	ns	0.1218 A,B		
	SD vs. DIO -STZ	-198.6	-285.9 to -111.3	Yes	****	<0.0001 A,C		
	DIO vs. DIO -STZ	-122.5	-215.1 to -29.89	Yes	**	0.038 B,C		
	Test details	Mean 1	Mean 2	Mean Diff	SE of diff	n1	n2	q
30 min	Tukey's multiple comparisons test							
	SD vs. DIO	-275.9	-402.2 to -149.6	Yes	****	<0.0001 A,B		
	SD vs. DIO -STZ	-301.9	-421 to -182.8	Yes	****	<0.0001 A,C		
	DIO vs. DIO -STZ	-26	-152.1 to 100.3	No	ns	0.8659 B,C		
	Test details	Mean 1	Mean 2	Mean Diff	SE of diff	n1	n2	q
60 min	Tukey's multiple comparisons test							
	SD vs. DIO	-332.6	-408.2 to -257	Yes	****	<0.0001 A,B		
	SD vs. DIO -STZ	-369.5	-440.8 to -298.2	Yes	****	<0.0001 A,C		
	DIO vs. DIO -STZ	-36.9	-112.5 to 38.71	No	ns	0.4531 B,C		
	Test details	Mean 1	Mean 2	Mean Diff	SE of diff	n1	n2	q
120 min	Tukey's multiple comparisons test							
	SD vs. DIO	-277.4	-387.1 to -167	Yes	****	<0.0001 A,B		
	SD vs. DIO -STZ	-397.5	-501.5 to -293.5	Yes	****	<0.0001 A,C		
	DIO vs. DIO -STZ	-120.2	-230.5 to -9.826	Yes	**	0.0309 B,C		
	Test details	Mean 1	Mean 2	Mean Diff	SE of diff	n1	n2	q

Table S6. Plasma Cholesterol

Group	Mouse ID#	Cholesterol (mg/dL)
SD	3268	125.356
	3270	169.516
	3272	103.989
	3274	135.328
	3275	169.516
	3276	133.903
DIO	3280	226.496
	3281	327.635
	3282	242.165
	3283	213.675
	3284	195.157
	3285	192.308
DIO-STZ	3288	233.618
	3290	139.601
	3292	202.279
	3294	198.006
	3295	207.977
	3296	215.100

Brown-Forsythe test					
F (DFn, DFd)	0.4761 (2, 15)				
P value	0.6303				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
→ Proceed with ordinary 1-way ANOVA					
Tukey's multiple comparisons test					
	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
SD vs. DIO	-93.3	-149.3 to -37.28	Yes	**	0.0016
SD vs. DIO-STZ	-59.83	-115.9 to -3.808	Yes	*	0.0357
DIO vs. DIO-STZ	33.48	-22.55 to 89.5	No	ns	0.296

Group	SD	DIO	DIO-STZ
1	125.356	226.496	233.618
2	169.516	327.635	139.601
3	103.989	242.165	202.279
4	135.328	213.675	198.006
5	169.516	195.157	207.977
6	133.903	192.308	215.100
Average (g)	139.601	232.906	199.430
StDev	25.736	50.087	31.866
n	6	6	6
StError	10.507	20.448	13.009
Max threshold	191.07	333.08	263.16
Min threshold	88.13	132.73	135.70

Table S8. Cholesterol - vLDL

Group	Mouse ID#	vLDL Cholesterol (mg/dL)
SD	3268	0.820
	3270	1.230
	3272	1.627
	3274	0.850
	3275	0.897
	3276	0.905
DIO	3280	0.682
	3281	1.726
	3282	0.652
	3283	0.729
	3284	0.697
	3285	1.090
DIO-STZ	3288	1.390
	3290	0.000
	3292	0.668
	3294	0.595
	3295	0.313
	3296	2.143

Brown-Forsythe test						
F (DFn, DFd)		1.159 (2, 15)				
P value		0.3405				
P value summary		ns				
Are SDs significantly different (P < 0.05)?		No				
→ Proceed with ordinary 1-way ANOVA						
Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
SD vs. DIO		0.1256	-0.6928 to 0.944	No	ns	0.9166
SD vs. DIO-STZ		0.2032	-0.6152 to 1.022	No	ns	0.7979
DIO vs. DIO-STZ		0.0776	-0.7408 to 0.896	No	ns	0.9672

Group	SD	DIO	DIO-STZ
1	0.820	0.682	1.390
2	1.230	1.726	0.000
3	1.627	0.652	0.668
4	0.850	0.729	0.595
5	0.897	0.697	0.313
6	0.905	1.090	2.143
Average (g)	1.055	0.929	0.852
StDev	0.317	0.423	0.784
n	6	6	6
StError	0.129	0.173	0.320
Max threshold	1.69	1.77	2.42
Min threshold	0.42	0.08	-0.72

Table S9. Cholesterol - LDL

Group	Mouse ID#	LDL Cholesterol (mg/dL)
SD	3268	26.979
	3270	38.145
	3272	12.389
	3274	26.640
	3275	38.193
	3276	24.498
DIO	3280	71.453
	3281	136.626
	3282	71.737
	3283	79.992
	3284	53.370
	3285	53.570
DIO-STZ	3288	80.446
	3290	28.719
	3292	61.613
	3294	63.280
	3295	56.814
	3296	76.700

Brown-Forsythe test	
F (DFn, DFd)	0.7793 (2, 15)
P value	0.4764
P value summary	ns
Are SDs significantly different (P < 0.05)?	No
→ Proceed with ordinary 1-way ANOVA	

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
SD vs. DIO	-49.98	-82.1 to -17.86	Yes	**	0.0029
SD vs. DIO-STZ	-33.45	-65.57 to -1.335	Yes	*	0.0407
DIO vs. DIO-STZ	16.53	-15.59 to 48.65	No	ns	0.3976

Group	SD	DIO	DIO-STZ
1	26.979	71.453	80.446
2	38.145	136.626	28.719
3	12.389	71.737	61.613
4	26.640	79.992	63.280
5	38.193	53.370	56.814
6	24.498	53.570	76.700
Average (g)	27.807	77.791	61.262
StDev	9.649	30.745	18.382
n	6	6	6
StError	3.939	12.552	7.504
Max threshold	47.10	139.28	98.03
Min threshold	8.51	16.30	24.50

Table S10. Cholesterol - HDL

Group	Mouse ID#	HDL Cholesterol (mg/dL)
SD	3268	97.557
	3270	130.141
	3272	89.973
	3274	107.837
	3275	130.425
	3276	108.501
DIO	3280	154.361
	3281	189.283
	3282	169.777
	3283	132.955
	3284	141.090
	3285	137.648
DIO-STZ	3288	151.782
	3290	110.883
	3292	139.998
	3294	134.130
	3295	150.850
	3296	136.257

Brown-Forsythe test					
F (DFn, DFd)					0.7793 (2, 15)
P value					0.4764
P value summary					ns
Are SDs significantly different (P < 0.05)?					No
→ Proceed with ordinary 1-way ANOVA					
Tukey's multiple comparisons test					
	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
SD vs. DIO	-43.45	-70.45 to -16.45	Yes	**	0.0022
SD vs. DIO-STZ	-26.58	-53.58 to 0.4235	No	ns	0.054
DIO vs. DIO-STZ	16.87	-10.13 to 43.87	No	ns	0.2669

Group	SD	DIO	DIO-STZ
1	97.557	154.361	151.782
2	130.141	189.283	110.883
3	89.973	169.777	139.998
4	107.837	132.955	134.130
5	130.425	141.090	150.850
6	108.501	137.648	136.257
Average (g)	110.739	154.186	137.317
StDev	16.628	21.775	14.897
n	6	6	6
StError	6.788	8.889	6.082
Max threshold	143.99	197.73	167.11
Min threshold	77.48	110.64	107.52

Table S11. *Plasma oxLDL*

Group	Mouse ID#	oxLDL (ng/dL)
SD	3268	15.64
	3270	15.34
	3272	16.24
	3273	7.94
	3274	28.64
	3275	25.44
	3276	18.04
DIO	3280	39.24
	3281	40.74
	3282	44.74
	3283	35.14
	3284	43.14
	3285	47.74
DIO-STZ	3288	55.64
	3290	67.94
	3292	62.54
	3294	56.04
	3295	55.74
	3296	64.84

Brown-Forsythe test	
F (DFn, DFd)	0.2649 (2, 16)
P value	0.7706
P value summary	ns
Are SDs significantly different (P < 0.05)?	No
→ Proceed with ordinary 1-way ANOVA	

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
SD vs. DIO	-23.61	-31.85 to -15.36	Yes	****	<0.0001
SD vs. DIO-STZ	-42.27	-50.52 to -34.03	Yes	****	<0.0001
DIO vs. DIO-STZ	-18.67	-27.22 to -10.11	Yes	***	0.0001

Group	SD	DIO	DIO-STZ
1	15.64	39.24	55.640
2	15.34	40.74	67.940
3	16.24	44.74	62.540
4	7.94	35.14	56.040
5	28.64	43.14	55.740
6	25.44	47.74	64.840
7	18.04	x	x
Average (g)	18.183	41.790	60.457
StDev	6.895	4.422	5.376
n	7	6	6
StError	2.606	1.805	2.195
Max threshold	31.97	50.63	71.21
Min threshold	4.39	32.95	49.70

Table S12. Motor NCV

Group	Cage	Mouse ID	Motor NCV (m/s)			
			16wk	24wk	36wk	
SD	AA	3268	62.0	66.0	62.5	
	AA	3269	64.0	64.7	60.0	
	AA	3270	58.0	60.7	60.0	
	AA	3271	64.5	64.0	60.7	
	AA	3272	59.6	62.0	59.6	
	BB	3273	60.0	62.7	56.1	
	BB	3274	62.5	64.0	61.5	
	BB	3275	63.2	62.7	60.0	
	BB	3276	60.0	65.1	58.8	
	BB	3277	63.2	62.0	60.0	
	DIO	CC	3278	x	47.4	46.6
		CC	3279	51.7	49.1	47.5
CC		3280	51.6	51.6	50.0	
DD		3281	59.6	46.9	48.3	
DD		3282	51.7	45.7	44.2	
DD		3283	48.3	50	49.1	
EE		3284	49.1	45.5	50.0	
EE		3285	53.3	44.2	49.1	
FF		3286	52.5	50.8	50.0	
FF		3287	51.6	46.6	43.4	
GG		3288	48.3	53.3	51.9	
GG		3289	51.6	44.2	44.2	
DIO-STZ	GG	3290	50	46	48.3	
	HH	3291	53.3	44.4	x	
	HH	3292	54.2	48.3	46.6	
	HH	3293	50	47.5	46.8	
	II	3294	52	47.6	49.2	
	II	3295	50	52.5	49.1	
	JJ	3296	x	49.1	45.0	
	JJ	3297	x	51.6	50.0	

	Age (wk)	16wk	24wk	36wk
SD	Average (g)	61.7	63.4	59.9
	StDev	2.166	1.641	1.691
	n	10	10	10
	StError	0.685	0.519	0.535
	Max threshold	66.0	66.7	63.3
	Min threshold	57.4	60.1	56.5
DIO	Average (g)	52.2	47.8	47.8
	StDev	3.2	2.5	2.4
	n	9	10	10
	StError	1.068	0.782	0.760
	Max threshold	58.6	52.7	52.6
	Min threshold	45.7	42.8	43.0
DIO-STZ	Average (g)	51.2	48.5	47.9
	StDev	2.0	3.2	2.5
	n	8	10	9
	StError	0.7	1.0	0.8
	Max threshold	55.1	54.9	52.8
	Min threshold	47.3	42.0	43.0

16wk	Brown-Forsythe test						
	F (DFn, DFd)		0.8018 (2, 23)				
	P value		0.4607				
	P value summary		ns				
	Are SDs significantly different (P < 0.05)?		No				
	→ Proceed with ordinary 1-way ANOVA						
	Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
	SD vs. DIO		10.48	8.139 to 12.81	Yes	****	<0.0001
	SD vs. DIO-STZ		10.53	8.189 to 12.86	Yes	****	<0.0001
	DIO vs. DIO-STZ		0.05	-2.412 to 2.512	No	ns	0.9986

24wk	Brown-Forsythe test						
	F (DFn, DFd)		1.562 (2, 27)				
	P value		0.2282				
	P value summary		ns				
	Are SDs significantly different (P < 0.05)?		No				
	→ Proceed with ordinary 1-way ANOVA						
	Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
	SD vs. DIO		15.61	12.81 to 18.41	Yes	****	<0.0001
	SD vs. DIO-STZ		14.94	12.14 to 17.74	Yes	****	<0.0001
	DIO vs. DIO-STZ		-0.67	-3.466 to 2.126	No	ns	0.8244

36wk	Brown-Forsythe test						
	F (DFn, DFd)		2.229 (2, 25)				
	P value		0.1286				
	P value summary		ns				
	Are SDs significantly different (P < 0.05)?		No				
	→ Proceed with ordinary 1-way ANOVA						
	Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value
	SD vs. DIO		12.52	10.12 to 14.93	Yes	****	<0.0001
	SD vs. DIO-STZ		12.44	9.979 to 14.91	Yes	****	<0.0001
	DIO vs. DIO-STZ		-0.08	-2.483 to 2.323	No	ns	0.9962

Hindpaw Latency

Group	Cage	Mouse ID	Hindpaw latency (s)		
			16wk	24wk	36wk
SD	AA	3268	3.64	2.87	3.86
	AA	3269	3.03	3.13	3.66
	AA	3270	3.18	2.94	4.23
	AA	3271	3.86	3.60	x
	AA	3272	3.74	2.93	x
	BB	3273	3.02	x	3.53
	BB	3274	3.32	3.14	3.70
	BB	3275	3.18	3.28	3.78
	BB	3276	3.63	2.62	3.71
	BB	3277	3.74	3.09	3.69
	DIO	CC	3278	3.35	4.54
CC		3279	3.48	4.44	4.92
CC		3280	3.66	4.76	3.94
DD		3281	3.60	4.89	4.47
DD		3282	4.22	3.87	4.38
DD		3283	4.12	4.91	5.28
EE		3284	3.32	4.53	4.91
EE		3285	2.86	3.60	3.89
DIO-STZ	FF	3286	2.92	3.99	5.22
	FF	3287	3.15	5.00	4.55
	GG	3288	3.52	4.38	4.98
	GG	3289	2.72	3.65	4.57
	GG	3290	3.52	4.58	4.53
	HH	3291	3.60	4.42	6.40
	HH	3292	3.47	4.26	4.26
	HH	3293	3.09	4.28	x
	II	3294	2.69	4.07	5.55
	II	3295	2.66	4.21	4.52
JJ	3296	2.87	3.46	4.57	
	3297	2.74	3.91	4.62	

	Age (wk)	16wk	24wk	36wk
SD	Average (g)	3.4	3.1	3.8
	StDev	0.322	0.278	0.209
	n	10	9	8
	StError	0.102	0.093	0.074
	Max threshold	4.1	3.62	4.19
	Min threshold	2.8	2.5	3.4
	DIO	Average (g)	3.5	4.5
StDev		0.5	0.5	0.5
n		10	10	10
StError		0.151	0.153	0.151
Max threshold		4.4	5.4	5.6
Min threshold	2.6	3.5	3.7	
DIO-STZ	Average (g)	3.1	4.1	4.9
	StDev	0.4	0.4	0.7
	n	10	10	9
	StError	0.1	0.1	0.2
	Max threshold	3.9	4.8	6.2
Min threshold	2.3	3.41	3.5	

16wk	Brown-Forsythe test							
	F (DFn, DFd)		0.3192 (2, 27)					
	P value		0.7294					
	P value summary		ns					
	Are SDs significantly different (P < 0.05)?		No					
	→ Proceed with ordinary 1-way ANOVA							
	Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value	
	SD vs. DIO		-0.034	-0.4716 to 0.4036	No	ns	0.9798	
	SD vs. DIO-STZ		0.346	-0.0916 to 0.7836	No	ns	0.1416	
	DIO vs. DIO-STZ		0.38	-0.0576 to 0.8176	No	ns	0.098	

24wk	Brown-Forsythe test							
	F (DFn, DFd)		1.091 (2, 26)					
	P value		0.3508					
	P value summary		ns					
	Are SDs significantly different (P < 0.05)?		No					
	→ Proceed with ordinary 1-way ANOVA							
	Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value	
	SD vs. DIO		-1.386	-1.825 to -0.947	Yes	****	<0.0001	
	SD vs. DIO-STZ		-1.055	-1.493 to -0.6158	Yes	****	<0.0001	
	DIO vs. DIO-STZ		0.3312	-0.0959 to 0.7583	No	ns	0.1513	

36wk	Brown-Forsythe test							
	F (DFn, DFd)		3.207 (2, 22)					
	P value		0.0599					
	P value summary		ns					
	Are SDs significantly different (P < 0.05)?		No					
	→ Proceed with ordinary 1-way ANOVA							
	Tukey's multiple comparisons test		Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value	
	SD vs. DIO		-0.9231	-1.396 to -0.4498	Yes	***	0.0002	
	SD vs. DIO-STZ		-0.9957	-1.493 to -0.4986	Yes	***	0.0001	
	DIO vs. DIO-STZ		-0.07254	-0.5281 to 0.383	No	ns	0.9159	

Intraepidermal Nerve Fiber Density

Group	Cage	Mouse ID	IENF (mm ²)
			36wk
SD	AA	3268	49.01
	AA	3269	48.25
	AA	3270	x
	AA	3271	x
	AA	3272	51.13
	BB	3273	63.17
	BB	3274	55.09
	BB	3275	50.61
	BB	3276	55.54
	BB	3277	62.16
DIO	CC	3278	40.45
	CC	3279	40.70
	CC	3280	x
	DD	3281	40.44
	DD	3282	49.72
	DD	3283	43.60
	EE	3284	39.53
	EE	3285	34.43
	FF	3286	54.13
	FF	3287	42.05
DIO-STZ	GG	3288	35.02
	GG	3289	31.08
	GG	3290	38.64
	HH	3291	x
	HH	3292	37.32
	HH	3293	46.50
	II	3294	35.79
	II	3295	44.31
	JJ	3296	41.24
JJ	3297	43.75	

Brown-Forsythe test				
F (DFn, DFd)	0.09764 (2, 23)			
P value	0.9074			
P value summary	ns			
Are SDs significantly different (P < 0.05)?	No			
→ Proceed with ordinary 1-way ANOVA				
Tukey's multiple comparisons test				
	Mean Diff.	95.00% CI of diff.	Significant?	Summary
SD vs. DIO	11.59	4.835 to 18.34	Yes	***
SD vs. DIO-STZ	15.07	8.324 to 21.83	Yes	****
DIO vs. DIO-STZ	3.488	-3.061 to 10.04	No	ns

	Age (wk)	36wk
SD	Average (g)	54.4
	StDev	5.743
	n	8
	StError	2.031
	Max threshold	65.9
	Min threshold	42.9
DIO	Average (g)	42.8
	StDev	5.9
	n	9
	StError	1.950
	Max threshold	54.5
	Min threshold	31.1
DIO-STZ	Average (g)	39.3
	StDev	5.0
	n	9
	StError	1.7
	Max threshold	49.4
	Min threshold	29.2