

SUPPLEMENTAL

Supplementary Table 1. The percentage of scores by raters 1 and 2, for cohort 1 male calorie restricted and ad libitum fed C57BL/6J and DBA/2J mice, that fell into each score category (0, 0.5, 1) for each item of the frailty index.

Frailty Index Item	Male DBA2/J Calorie Restricted			Male DBA2/J <i>Ad Libitum</i> Fed			Male C57BL/6J Calorie Restricted			Male C57BL/6J <i>Ad Libitum</i> Fed			Chi Squared
	0	0.5	1	0	0.5	1	0	0.5	1	0	0.5	1	P value
Temperature Score	71.4	14.3	14.3	57.1	42.9		100.0			62.5	37.5		0.006
Body Weight Score	85.7	14.3		42.9	42.9	14.3	90.0	10.0		12.5	12.5	75.0	0.000
Alopecia	57.1	42.9		56.3	43.8		95.0	5.0		75.0	25.0		0.030
Loss of fur colour	100.0			93.8	6.3		25.0	75.0		43.8	56.3		0.000
Dermatitis	100.0			100.0			100.0			81.3	6.3	12.5	NS
Loss of whiskers	100.0			75.0	12.5	12.5	90.0	10.0		62.5	18.8	18.8	NS
Coat condition	35.7	64.3		25.0	68.8	6.3	60.0	40.0		43.8	31.3	25.0	0.020
Tumours	100.0			87.5	12.5		100.0			100.0			NS
Distended abdomen	100.0			87.5	12.5		95.0	5.0		87.5	12.5		NS
Kyphosis	28.6	50.0	21.4	37.5	31.3	31.3	45.0	50.0	5.0	62.5	31.3	6.3	NS
Tail stiffening	35.7	50.0	14.3	12.5	31.3	56.3	15.0	65.0	20.0	25.0	56.3	18.8	NS
Gait disorders	100.0			100.0			100.0			93.8	6.3		NS
Tremor	71.4	28.6		75.0	25.0		95.0	5.0		87.5	12.5		NS

Forelimb grip strength	35.7	50.0	14.3	18.8	31.3	50.0	30.0	60.0	10.0	25.0	50.0	25.0	NS
Body condition score	57.1	35.7	7.1	50.0	50.0		60.0	35.0	5.0	37.5	37.5	25.0	NS
Vestibular disturbance	78.6	21.4		81.3	18.8		50.0	45.0	5.0	68.8	25.0	6.3	NS
Hearing loss		28.6	71.4		31.3	68.8	70.0	10.0	20.0	50.0	18.8	31.3	0.000
Cataracts	92.9		7.1	93.8	6.3		80.0	5.0	15.0	75.0	6.3	18.8	NS
Corneal capacity	100.0			93.8	6.3		85.0	15.0		75.0	12.5	12.5	NS
Eye discharge/swelling	78.6	14.3	7.1	37.5	56.3	6.3	60.0	35.0	5.0	68.8	25.0	6.3	NS
Microphthalmia	35.7	7.1	57.1	56.3	31.3	12.5	95.0	5.0		81.3	12.5	6.3	0.000
Vision loss	50.0	14.3	35.7	31.3	25.0	43.8	20.0	55.0	25.0	25.0	43.8	31.3	NS
Menace reflex	78.6	21.4		75.0	25.0		90.0	10.0		68.8	18.8	12.5	NS
Nasal discharge	100.0			100.0			100.0			100.0			NS
Malocclusions	100.0			100.0			100.0			100.0			NS
Rectal prolapse	100.0			68.8	31.3		95.0	5.0		68.8	31.3		0.022
Vaginal/penile prolapse	57.1	42.9		50.0	50.0		80.0	20.0		75.0	25.0		NS
Diarrhoea	100.0			100.0			100.0			100.0			NS
Breathing rate/depth	42.9	35.7	21.4	43.8	50.0	6.3	80.0	20.0		75.0	12.5	12.5	NS
Mouse grimace scale	64.3	14.3	21.4	50.0	25.0	25.0	55.0	40.0	5.0	43.8	37.5	18.8	NS
Pilo erection	21.4	78.6		18.8	81.3		65.0	35.0		56.3	43.8		0.007

Supplementary Table 2. The percentage of scores by raters 1 and 2, for cohort 1 female calorie restricted and ad libitum fed C57BL/6J and DBA2/J mice, that fell into each score category (0, 0.5, 1) for each item of the frailty index.

Frailty Index Score	Female DBA2/J Calorie Restricted			Female DBA2/J <i>Ad Libitum</i> Fed			Female C57BL/6J Calorie Restricted			Female C57BL/6J <i>Ad Libitum</i> Fed			Chi Squared
	0	0.5	1	0	0.5	1	0	0.5	1	0	0.5	1	P value
Temperature Score	100.0			85.7	14.3		82.4	17.6		80.0	10.0	10.0	0.017
Body Weight Score	90.0	10.0		25.0	25.0	50.0	47.4	42.1	10.5			100.0	0.000
Alopecia	85.0	15.0		61.1	38.9		60.0	35.0	5.0	50.0	27.3	22.7	0.027
Loss of fur colour	100.0			100.0			65.0	35.0		63.6	31.8	4.5	0.005
Dermatitis	100.0			100.0			100.0			90.9	9.1		NS
Loss of whiskers	100.0			94.4	5.6		90.0	10.0		95.5	4.5		NS
Coat condition	40.0	60.0		38.9	61.1		95.0	5.0		45.5	50.0	4.5	0.003
Tumours	100.0			100.0			95.0	5.0		100.0			NS
Distended abdomen	100.0			100.0			85.0	5.0	10.0	68.2	31.8		0.001
Kyphosis	40.0	45.0	15.0	38.9	55.6	5.6	55.0	45.0		77.3	22.7		0.048
Tail stiffening	25.0	65.0	10.0	11.1	66.7	22.2	30.0	60.0	10.0	31.8	59.1	9.1	NS
Gait disorders	95.0	5.0		100.0			100.0			100.0			NS
Tremor	50.0	50.0		77.8	22.2		95.0	5.0		100.0			0.000
Forelimb grip strength	40.0	60.0		38.9	38.9	22.2	40.0	55.0	5.0	63.6	31.8	4.5	NS

Body condition score	50.0	35.0	15.0	44.4	55.6		60.0	35.0	5.0	59.1	31.8	9.1	NS
Vestibular disturbance	90.0	10.0		83.3	16.7		75.0	20.0	5.0	77.3	18.2	4.5	NS
Hearing loss	5.0	30.0	65.0	6.3	18.8	75.0	85.0	10.0	5.0	72.7	13.6	13.6	0.000
Cataracts	90.0		10.0	88.9		11.1	85.0	5.0	10.0	90.9		9.1	NS
Corneal capacity	100.0			100.0			95.0	5.0		90.9	9.1		NS
Eye discharge/swelling	65.0	30.0	5.0	44.4	44.4	11.1	65.0	30.0	5.0	50.0	40.9	9.1	NS
Microphthalmia	75.0	10.0	15.0	66.7	11.1	22.2	50.0	45.0	5.0	50.0	22.7	27.3	NS
Vision loss	35.0	40.0	25.0	38.9	44.4	16.7	45.0	35.0	20.0	36.4	54.5	9.1	NS
Menace reflex	90.0	10.0		83.3	16.7		85.0	15.0		86.4	13.6		NS
Nasal discharge	100.0			100.0			100.0			100.0			NS
Malocclusions	100.0			100.0			100.0			100.0			NS
Rectal prolapse	100.0			100.0			100.0			100.0			NS
Vaginal/penile prolapse	85.0	15.0		100.0			100.0			95.5	4.5		NS
Diarrhoea	100.0			100.0			100.0			100.0			NS
Breathing rate/depth	65.0	35.0		38.9	61.1		80.0	20.0		86.4	13.6		0.008
Mouse grimace scale	80.0	10.0	10.0	61.1	33.3	5.6	80.0	20.0		63.6	36.4		NS
Pilo erection	35.0	65.0		11.1	88.9		90.0	10.0		81.8	18.2		NS

Supplementary Table 3. The percentage of scores by raters 1 and 2, for cohort 2 male C57BL/6J mice fed a control or resveratrol-containing diet, that fell into each score category (0, 0.5, 1) for each item of the frailty index.

Frailty Index Score	Male C57BL/6J Mice with Resveratrol Diet			Male C57BL/6J Mice with Control Diet			Chi Squared
	0	0.5	1	0	0.5	1	P value
Body Weight Score			100.0			100.0	NS
Alopecia	100.0			100.0			NS
Loss of fur colour	50.0	50.0		25.0	71.9	3.1	NS
Dermatitis	100.0			100.0			NS
Loss of whiskers	100.0			100.0			NS
Coat condition	38.9	61.1		37.5	59.4	3.1	NS
Tumours	100.0			100.0			NS
Distended abdomen	72.2	27.8		62.5	37.5		NS
Kyphosis	88.9	11.1		71.9	25.0	3.1	NS
Tail stiffening	33.3	38.9	27.8	18.8	59.4	21.9	NS
Gait disorders	94.4	5.6		100.0			NS
Tremor	100.0			93.8	6.3		NS
Forelimb grip strength	33.3	44.4	22.2	22.6	41.9	35.5	NS
Body condition score	55.6	33.3	11.1	46.9	34.4	18.8	NS

Vestibular disturbance	50.0	50.0		31.3	56.3	12.5	NS
Hearing loss	61.1	22.2	16.7	50.0	26.7	23.3	NS
Cataracts	94.4	5.6		100.0			NS
Corneal capacity	100.0			65.6	34.4		0.005
Eye discharge/swelling	55.6	44.4		56.3	37.5	6.3	NS
Microphthalmia	94.4	5.6		96.9	3.1		NS
Vision loss	5.6	38.9	55.6	12.9	38.7	48.4	NS
Menace reflex	55.6	44.4		48.4	41.9	9.7	NS
Nasal discharge	94.4	5.6		100.0			NS
Malocclusions	100.0			100.0			NS
Rectal prolapse	100.0			100.0			NS
Vaginal/penile prolapse	100.0			100.0			NS
Diarrhoea	100.0			100.0			NS
Breathing rate/depth	38.9	61.1		18.8	75.0	6.3	NS
Mouse grimace scale	50.0	50.0		34.4	65.6		NS
Pilo erection	88.9	11.1		81.3	18.8		NS