

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	3	daGal4	2.1	♀	1	37	72.0	84	39	61.7	84	39	63.8	93	0.0	10.7	
Heat	3	daGal4	2.1	♀	2	41	64.9	76	39	60.1	84	40	60.6	84	0.0	0.0	
Heat	3	daGal4	2.1	♀	3	42	59.0	76	38	54.1	76	39	59.7	76	1.3	0.0	<b>0.0048</b>
Heat	3	daGal4	2.1	♀	4	40	24.9	41	40	22.3	41	40	27.8	45	11.9	9.8	<b>0.0139</b>
Heat	3	daGal4	2.1	♂	1	38	61.4	84	39	60.8	84	40	57.8	76	-5.0	-9.5	0.0974
Heat	3	daGal4	2.1	♂	2	40	58.9	68	38	53.9	84	40	52.5	68	-2.6	0.0	<b>0.0082</b>
Heat	3	daGal4	2.1	♂	3	40	51.4	76	38	52.9	76	40	53.0	76	0.1	0.0	0.6036
Heat	3	daGal4	2.1	♂	4	40	23.5	34	40	23.6	45	40	25.8	41	9.7	0.0	0.1872
Heat	3	daGal4	4.3	♀	1	40	68.0	84	39	61.7	84	38	66.8	93	0.0	10.7	
Heat	3	daGal4	4.3	♀	2	40	60.7	76	39	60.1	84	39	56.3	68	-6.3	-10.5	<b>0.0030</b>
Heat	3	daGal4	4.3	♀	3	41	51.1	56	38	54.1	76	38	57.9	76	7.0	0.0	<b>0.0450</b>
Heat	3	daGal4	4.3	♀	4	39	28.1	36	40	27.9	36	40	33.6	46	19.5	27.8	<b>0.0005</b>
Heat	3	daGal4	4.3	♂	1	41	63.7	76	39	60.8	84	45	58.6	76	-3.7	0.0	<b>0.0175</b>
Heat	3	daGal4	4.3	♂	2	42	55.5	76	38	53.9	84	46	51.3	64	-4.8	-15.8	<b>0.0332</b>
Heat	3	daGal4	4.3	♂	3	41	51.9	76	38	52.9	76	40	52.1	68	0.0	-10.5	
Heat	3	daGal4	4.3	♂	4	40	25.5	36	40	29.5	41	40	29.8	41	1.1	0.0	<b>0.0017</b>
Heat	3	daGal4	9.1	♀	1	39	69.1	93	39	61.7	84	40	67.0	84	0.0	0.0	
Heat	3	daGal4	9.1	♀	2	41	61.6	76	39	60.1	84	38	65.7	76	6.7	0.0	<b>0.0375</b>
Heat	3	daGal4	9.1	♀	3	43	60.7	76	38	54.1	76	39	62.2	84	2.3	10.5	<b>0.0002</b>
Heat	3	daGal4	9.1	♂	1	39	68.7	84	39	60.8	84	38	69.7	93	1.5	10.7	<b>0.0079</b>
Heat	3	daGal4	9.1	♂	2	40	57.7	76	38	53.9	84	34	60.8	76	5.4	0.0	0.1188
Heat	3	daGal4	9.1	♂	3	40	55.4	76	38	52.9	76	40	58.3	84	5.3	10.5	<b>0.0352</b>
Heat	3	daGal4	3.2	♀	1	40	60.1	76	39	61.7	84	42	60.0	76	-0.2	0.0	0.3989
Heat	3	daGal4	3.2	♀	2	39	52.8	68	39	60.1	84	38	61.8	76	2.8	0.0	0.6183
Heat	3	daGal4	3.2	♀	3	40	50.2	56	38	54.1	76	39	54.3	76	0.3	0.0	<b>0.0010</b>
Heat	3	daGal4	3.2	♀	4	39	31.2	42	38	23.3	38	40	40.4	46	29.7	9.5	<b>&lt;0.0001</b>
Heat	3	daGal4	3.2	♂	1	40	60.1	93	39	60.8	84	39	58.2	76	-3.2	-9.5	0.3003
Heat	3	daGal4	3.2	♂	2	45	46.5	64	38	53.9	84	40	57.3	76	6.3	0.0	0.4225
Heat	3	daGal4	3.2	♂	3	40	47.4	60	38	52.9	76	40	49.4	76	0.0	0.0	
Heat	3	daGal4	3.2	♂	4	36	21.3	30	40	19.5	30	40	27.0	34	26.6	13.3	<b>&lt;0.0001</b>
Heat	3	daGal4	10.1	♀	1	40	61.5	84	39	61.7	84	40	61.5	76	0.0	-9.5	
Heat	3	daGal4	10.1	♀	2	40	50.7	56	39	60.1	84	38	58.4	76	0.0	0.0	
Heat	3	daGal4	10.1	♀	3	40	50.4	56	38	54.1	76	40	63.5	93	17.3	22.4	<b>&lt;0.0001</b>
Heat	3	daGal4	10.1	♀	4	39	32.5	41	40	28.4	36	40	33.5	41	3.2	0.0	0.7430
Heat	3	daGal4	10.1	♂	1	29	61.8	84	39	60.8	84	40	60.4	84	-0.7	0.0	0.4536
Heat	3	daGal4	10.1	♂	2	40	46.4	52	38	53.9	84	39	56.4	76	4.7	0.0	0.4541
Heat	3	daGal4	10.1	♂	3	39	48.3	60	38	52.9	76	39	53.9	76	1.9	0.0	<b>0.0027</b>
Heat	3	daGal4	10.1	♂	4	40	26.2	36	40	22.0	26	40	28.8	36	9.9	0.0	<b>0.0218</b>
Heat	3	daGal4	3.1	♀	1	40	59.0	76	39	61.7	84	43	58.0	76	-1.8	0.0	0.0565
Heat	3	daGal4	3.1	♀	2	41	50.4	60	39	60.1	84	39	53.8	76	0.0	0.0	
Heat	3	daGal4	3.1	♀	3	38	46.2	56	38	54.1	76	41	52.0	64	0.0	0.0	
Heat	3	daGal4	3.1	♀	4	38	22.6	34	38	23.3	38	40	25.9	38	11.4	0.0	<b>0.0067</b>
Heat	3	daGal4	3.1	♂	1	39	61.9	76	39	60.8	84	40	61.0	76	0.0	0.0	
Heat	3	daGal4	3.1	♂	2	40	42.6	56	38	53.9	84	40	54.9	76	1.9	0.0	0.9906
Heat	3	daGal4	3.1	♂	3	18	52.2	76	38	52.9	76	39	51.6	68	-1.2	-10.5	0.3324
Heat	3	daGal4	3.1	♂	4	40	16.5	26	40	19.5	30	40	20.1	26	2.8	0.0	0.4985
Heat	3	daGal4	4.4	♀	1	41	67.1	84	39	61.7	84	38	60.3	76	-2.2	-9.5	<b>0.0014</b>
Heat	3	daGal4	4.4	♀	2	33	60.8	76	39	60.1	84	44	59.7	93	-0.7	10.7	0.6783
Heat	3	daGal4	4.4	♀	3	40	59.3	76	38	54.1	76	40	55.6	76	0.0	0.0	

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Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	3	daGal4	4.4	♀	4	40	32.2	41	40	27.9	36	40	38.0	46	18.0	12.2	<b>0.0002</b>
Heat	3	daGal4	4.4	♂	1	43	69.9	84	39	60.8	84	42	60.5	76	-0.6	-9.5	0.3669
Heat	3	daGal4	4.4	♂	2	40	56.2	76	38	53.9	84	41	53.8	84	-0.2	0.0	0.5348
Heat	3	daGal4	4.4	♂	3	38	55.2	76	38	52.9	76	40	52.7	68	-0.5	-10.5	0.2226
Heat	3	daGal4	4.4	♂	4	40	31.3	36	40	29.5	41	40	34.9	41	11.5	0.0	<b>0.0003</b>
Heat	3	DJ694	2.1	♀	1	37	72.0	84	39	69.4	93	39	67.3	93	-3.0	0.0	<b>0.0434</b>
Heat	3	DJ694	2.1	♀	2	41	64.9	76	31	60.9	76	46	60.4	84	-0.9	10.5	0.0525
Heat	3	DJ694	2.1	♀	3	42	59.0	76	37	65.3	84	43	56.8	76	-3.6	0.0	<b>0.0028</b>
Heat	3	DJ694	2.1	♀	4	40	24.9	41	39	24.5	41	40	18.7	30	-23.7	-26.8	<b>&lt;0.0001</b>
Heat	3	DJ694	2.1	♂	1	38	61.4	84	37	63.2	84	40	52.4	76	-14.6	-9.5	<b>&lt;0.0001</b>
Heat	3	DJ694	2.1	♂	2	40	58.9	68	33	58.4	76	40	52.3	76	-10.5	0.0	<b>0.0039</b>
Heat	3	DJ694	2.1	♂	3	40	51.4	76	35	54.1	76	42	55.1	76	2.0	0.0	0.1223
Heat	3	DJ694	2.1	♂	4	40	23.5	34	40	21.4	34	40	21.9	41	0.0	20.6	
Heat	3	DJ694	4.3	♀	1	40	68.0	84	39	69.4	93	40	63.5	76	-6.6	-9.5	<b>0.0141</b>
Heat	3	DJ694	4.3	♀	2	40	60.7	76	31	60.9	76	36	60.6	76	-0.2	0.0	0.4922
Heat	3	DJ694	4.3	♀	3	41	51.1	56	37	65.3	84	41	52.2	76	0.0	0.0	
Heat	3	DJ694	4.3	♀	4	39	28.1	36	40	24.9	36	40	22.6	41	-9.3	13.9	<b>0.0106</b>
Heat	3	DJ694	4.3	♂	1	41	63.7	76	37	63.2	84	38	55.6	76	-12.0	0.0	<b>0.0026</b>
Heat	3	DJ694	4.3	♂	2	42	55.5	76	33	58.4	76	39	54.1	76	-2.7	0.0	0.0694
Heat	3	DJ694	4.3	♂	3	41	51.9	76	35	54.1	76	41	43.6	48	-16.0	-36.8	<b>&lt;0.0001</b>
Heat	3	DJ694	4.3	♂	4	40	25.5	36	39	29.6	36	40	27.1	36	0.0	0.0	
Heat	3	DJ694	9.1	♀	1	39	69.1	93	39	69.4	93	41	61.1	84	-11.6	-9.7	<b>0.0056</b>
Heat	3	DJ694	9.1	♀	2	41	61.6	76	31	60.9	76	40	58.8	76	-3.5	0.0	0.2002
Heat	3	DJ694	9.1	♀	3	43	60.7	76	37	65.3	84	39	46.3	52	-23.9	-31.6	<b>&lt;0.0001</b>
Heat	3	DJ694	9.1	♂	1	39	68.7	84	37	63.2	84	40	52.1	64	-17.5	-23.8	<b>&lt;0.0001</b>
Heat	3	DJ694	9.1	♂	2	40	57.7	76	33	58.4	76	38	44.2	68	-23.4	-10.5	<b>&lt;0.0001</b>
Heat	3	DJ694	9.1	♂	3	40	55.4	76	35	54.1	76	30	48.4	64	-10.5	-15.8	<b>0.0051</b>
Heat	3	DJ694	3.2	♀	1	40	60.1	76	39	69.4	93	40	54.5	60	-9.3	-21.1	<b>&lt;0.0001</b>
Heat	3	DJ694	3.2	♀	2	39	52.8	68	31	60.9	76	40	52.5	56	-0.6	-17.6	0.9298
Heat	3	DJ694	3.2	♀	3	40	50.2	56	37	65.3	84	33	51.9	56	0.0	0.0	
Heat	3	DJ694	3.2	♀	4	39	31.2	42	39	17.7	22	40	37.4	46	20.0	9.5	<b>&lt;0.0001</b>
Heat	3	DJ694	3.2	♂	1	40	60.1	93	37	63.2	84	39	47.8	64	-20.4	-23.8	<b>&lt;0.0001</b>
Heat	3	DJ694	3.2	♂	2	45	46.5	64	33	58.4	76	39	40.4	48	-13.1	-25.0	<b>&lt;0.0001</b>
Heat	3	DJ694	3.2	♂	3	40	47.4	60	35	54.1	76	39	45.4	56	-4.1	-6.7	<b>0.0004</b>
Heat	3	DJ694	3.2	♂	4	36	21.3	30	40	18.1	30	40	21.6	30	1.4	0.0	<b>0.0002</b>
Heat	3	DJ694	10.1	♀	1	40	61.5	84	39	69.4	93	40	55.6	64	-9.6	-23.8	<b>0.0010</b>
Heat	3	DJ694	10.1	♀	2	40	50.7	56	31	60.9	76	40	49.9	56	-1.6	0.0	0.2561
Heat	3	DJ694	10.1	♀	3	40	50.4	56	37	65.3	84	40	48.8	56	-3.2	0.0	0.1880
Heat	3	DJ694	10.1	♀	4	39	32.5	41	40	27.3	31	39	32.2	36	0.0	0.0	
Heat	3	DJ694	10.1	♂	1	29	61.8	84	37	63.2	84	39	48.2	60	-22.0	-28.6	<b>&lt;0.0001</b>
Heat	3	DJ694	10.1	♂	2	40	46.4	52	33	58.4	76	40	43.3	52	-6.7	0.0	<b>0.0010</b>
Heat	3	DJ694	10.1	♂	3	39	48.3	60	35	54.1	76	30	47.1	52	-2.6	-13.3	<b>0.0033</b>
Heat	3	DJ694	10.1	♂	4	40	26.2	36	41	22.8	31	40	24.5	31	0.0	0.0	
Heat	3	DJ694	3.1	♀	1	40	59.0	76	39	69.4	93	41	51.6	56	-12.5	-26.3	<b>0.0003</b>
Heat	3	DJ694	3.1	♀	2	41	50.4	60	31	60.9	76	40	46.4	52	-8.0	-13.3	<b>0.0006</b>
Heat	3	DJ694	3.1	♀	3	38	46.2	56	37	65.3	84	40	44.3	48	-4.1	-14.3	<b>0.0063</b>
Heat	3	DJ694	3.1	♀	4	38	22.6	34	39	17.7	22	40	26.7	38	18.3	11.8	<b>0.0012</b>
Heat	3	DJ694	3.1	♂	1	39	61.9	76	37	63.2	84	41	49.1	52	-20.8	-31.6	<b>&lt;0.0001</b>
Heat	3	DJ694	3.1	♂	2	40	42.6	56	33	58.4	76	40	41.8	44	-1.9	-21.4	0.6872

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Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	3	DJ694	3.1	♂	3	18	52.2	76	35	54.1	76	44	42.1	48	-19.4	-36.8	<b>0.0004</b>
Heat	3	DJ694	3.1	♂	4	40	16.5	26	40	18.1	30	40	18.3	22	0.8	-15.4	<b>0.0111</b>
Heat	3	DJ694	4.4	♀	1	41	67.1	84	39	69.4	93	38	66.7	84	-0.7	0.0	0.2066
Heat	3	DJ694	4.4	♀	2	33	60.8	76	31	60.9	76	41	64.6	93	6.1	22.4	0.1122
Heat	3	DJ694	4.4	♀	3	40	59.3	76	37	65.3	84	39	64.7	93	0.0	10.7	
Heat	3	DJ694	4.4	♀	4	40	32.2	41	40	24.9	36	40	26.3	36	0.0	0.0	
Heat	3	DJ694	4.4	♂	1	43	69.9	84	37	63.2	84	40	59.2	76	-6.3	-9.5	0.0892
Heat	3	DJ694	4.4	♂	2	40	56.2	76	33	58.4	76	43	57.5	76	0.0	0.0	
Heat	3	DJ694	4.4	♂	3	38	55.2	76	35	54.1	76	44	60.1	76	8.9	0.0	<b>0.0149</b>
Heat	3	DJ694	4.4	♂	4	40	31.3	36	39	29.6	36	40	30.8	36	0.0	0.0	
Heat	3	D42	2.1	♀	1	37	72.0	84	30	63.0	93	39	58.7	68	-6.9	-19.0	0.0854
Heat	3	D42	2.1	♀	2	41	64.9	76	36	54.3	76	43	56.0	84	0.0	10.5	
Heat	3	D42	2.1	♀	3	42	59.0	76	40	62.4	93	38	56.2	76	-4.7	0.0	<b>0.0024</b>
Heat	3	D42	2.1	♀	4	40	24.9	41	40	19.1	30	41	22.0	41	0.0	0.0	
Heat	3	D42	2.1	♂	1	38	61.4	84	37	58.8	76	39	49.1	64	-16.5	-15.8	<b>&lt;0.0001</b>
Heat	3	D42	2.1	♂	2	40	58.9	68	32	52.0	76	39	45.8	64	-11.8	-5.9	<b>0.0265</b>
Heat	3	D42	2.1	♂	3	40	51.4	76	39	53.9	76	39	49.0	64	-4.6	-15.8	<b>0.0461</b>
Heat	3	D42	2.1	♂	4	40	23.5	34	39	21.0	41	40	20.9	41	-0.8	0.0	0.1893
Heat	3	D42	4.3	♀	1	40	68.0	84	30	63.0	93	36	66.5	84	0.0	0.0	
Heat	3	D42	4.3	♀	2	40	60.7	76	36	54.3	76	35	59.1	76	0.0	0.0	
Heat	3	D42	4.3	♀	3	41	51.1	56	40	62.4	93	39	61.9	76	0.0	0.0	
Heat	3	D42	4.3	♀	4	39	28.1	36	40	27.5	36	40	30.9	46	10.0	27.8	<b>0.0205</b>
Heat	3	D42	4.3	♂	1	41	63.7	76	37	58.8	76	39	52.3	64	-11.1	-15.8	<b>0.0067</b>
Heat	3	D42	4.3	♂	2	42	55.5	76	32	52.0	76	40	50.1	68	-3.7	-10.5	<b>0.0266</b>
Heat	3	D42	4.3	♂	3	41	51.9	76	39	53.9	76	42	49.0	56	-5.7	-26.3	<b>0.0082</b>
Heat	3	D42	4.3	♂	4	40	25.5	36	40	27.9	41	40	27.7	36	0.0	0.0	
Heat	3	D42	9.1	♀	1	39	69.1	93	30	63.0	93	39	61.3	76	-2.7	-18.3	0.4739
Heat	3	D42	9.1	♀	2	41	61.6	76	36	54.3	76	46	59.4	84	0.0	10.5	
Heat	3	D42	9.1	♀	3	43	60.7	76	40	62.4	93	39	59.9	76	-1.4	0.0	0.1615
Heat	3	D42	9.1	♂	1	39	68.7	84	37	58.8	76	41	53.4	76	-9.3	0.0	<b>0.0103</b>
Heat	3	D42	9.1	♂	2	40	57.7	76	32	52.0	76	42	45.5	56	-12.5	-26.3	<b>0.0004</b>
Heat	3	D42	9.1	♂	3	40	55.4	76	39	53.9	76	42	50.3	76	-6.8	0.0	<b>0.0081</b>
Heat	3	D42	3.2	♀	1	40	60.1	76	30	63.0	93	40	65.0	93	3.0	0.0	<b>0.0197</b>
Heat	3	D42	3.2	♀	2	39	52.8	68	36	54.3	76	37	55.9	68	2.9	0.0	<b>0.0180</b>
Heat	3	D42	3.2	♀	3	40	50.2	56	40	62.4	93	39	55.0	76	0.0	0.0	
Heat	3	D42	3.2	♀	4	39	31.2	42	39	22.6	30	40	34.5	42	10.6	0.0	<b>0.0208</b>
Heat	3	D42	3.2	♂	1	40	60.1	93	37	58.8	76	39	56.5	76	-3.9	0.0	0.1721
Heat	3	D42	3.2	♂	2	45	46.5	64	32	52.0	76	47	46.8	64	0.0	0.0	
Heat	3	D42	3.2	♂	3	40	47.4	60	39	53.9	76	40	48.0	68	0.0	0.0	
Heat	3	D42	3.2	♂	4	36	21.3	30	39	21.3	38	40	25.7	34	20.4	0.0	<b>0.0989</b>
Heat	3	D42	10.1	♀	1	40	61.5	84	30	63.0	93	41	52.0	60	-15.4	-28.6	<b>&lt;0.0001</b>
Heat	3	D42	10.1	♀	2	40	50.7	56	36	54.3	76	41	53.3	56	0.0	0.0	
Heat	3	D42	10.1	♀	3	40	50.4	56	40	62.4	93	40	52.7	60	0.0	0.0	
Heat	3	D42	10.1	♀	4	39	32.5	41	39	25.0	36	40	31.9	36	0.0	0.0	
Heat	3	D42	10.1	♂	1	29	61.8	84	37	58.8	76	39	49.6	64	-15.6	-15.8	<b>&lt;0.0001</b>
Heat	3	D42	10.1	♂	2	40	46.4	52	32	52.0	76	40	49.7	56	0.0	0.0	
Heat	3	D42	10.1	♂	3	39	48.3	60	39	53.9	76	39	45.0	52	-6.8	-13.3	<b>0.0127</b>
Heat	3	D42	10.1	♂	4	40	26.2	36	40	21.7	26	40	25.8	31	0.0	0.0	
Heat	3	D42	3.1	♀	1	40	59.0	76	30	63.0	93	52	57.9	76	-1.8	0.0	<b>0.0290</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	3	D42	3.1	♀	2	41	50.4	60	36	54.3	76	42	58.7	93	8.1	22.4	0.1511
Heat	3	D42	3.1	♀	3	38	46.2	56	40	62.4	93	41	52.7	76	0.0	0.0	
Heat	3	D42	3.1	♀	4	38	22.6	34	39	22.6	30	40	23.7	34	5.0	0.0	0.1976
Heat	3	D42	3.1	♂	1	39	61.9	76	37	58.8	76	40	54.7	76	-7.0	0.0	<b>0.0006</b>
Heat	3	D42	3.1	♂	2	40	42.6	56	32	52.0	76	40	52.9	76	1.7	0.0	0.7850
Heat	3	D42	3.1	♂	3	18	52.2	76	39	53.9	76	42	49.8	68	-4.6	-10.5	<b>0.0430</b>
Heat	3	D42	3.1	♂	4	40	16.5	26	39	21.3	38	40	17.5	22	0.0	-15.4	0.0041
Heat	3	D42	4.4	♀	1	41	67.1	84	30	63.0	93	38	65.1	93	0.0	0.0	
Heat	3	D42	4.4	♀	2	33	60.8	76	36	54.3	76	47	60.6	93	0.0	22.4	
Heat	3	D42	4.4	♀	3	40	59.3	76	40	62.4	93	46	55.4	76	-6.6	0.0	<b>0.0004</b>
Heat	3	D42	4.4	♀	4	40	32.2	41	40	27.5	36	40	36.5	46	13.4	12.2	<b>0.0011</b>
Heat	3	D42	4.4	♂	1	43	69.9	84	37	58.8	76	41	57.5	76	-2.3	0.0	0.6225
Heat	3	D42	4.4	♂	2	40	56.2	76	32	52.0	76	45	58.9	84	4.9	10.5	<b>0.0091</b>
Heat	3	D42	4.4	♂	3	38	55.2	76	39	53.9	76	40	53.6	76	-0.6	0.0	0.5432
Heat	3	D42	4.4	♂	4	40	31.3	36	41	28.0	41	40	35.8	46	14.4	12.2	<b>&lt;0.0001</b>
Heat	10	daGal4	2.1	♀	1	40	20.8	30	38	18.5	30	40	21.1	30	1.4	0.0	<b>0.0164</b>
Heat	10	daGal4	2.1	♀	2	39	31.5	36	41	30.0	33	39	30.4	33	0.0	0.0	
Heat	10	daGal4	2.1	♀	3	39	33.5	40	40	30.7	36	40	32.1	40	0.0	0.0	
Heat	10	daGal4	2.1	♀	4	36	30.1	33	37	28.5	33	40	29.0	33	0.0	0.0	
Heat	10	daGal4	2.1	♂	1	39	16.4	21	37	15.9	21	40	17.9	21	9.1	0.0	<b>0.0027</b>
Heat	10	daGal4	2.1	♂	2	39	27.0	28	38	25.3	28	39	27.7	28	2.7	0.0	<b>0.0346</b>
Heat	10	daGal4	2.1	♂	3	38	27.4	33	40	25.7	28	41	27.3	33	0.0	0.0	
Heat	10	daGal4	2.1	♂	4	40	24.7	28	40	24.9	28	39	25.0	28	0.5	0.0	0.2057
Heat	10	daGal4	4.3	♀	1	26	17.5	21	39	17.8	21	40	18.7	21	4.9	0.0	0.0697
Heat	10	daGal4	4.3	♀	2	39	31.2	36	41	30.0	33	40	33.4	40	7.0	11.1	<b>0.0005</b>
Heat	10	daGal4	4.3	♀	3	41	32.2	36	40	30.7	36	42	33.0	36	2.4	0.0	<b>0.0008</b>
Heat	10	daGal4	4.3	♀	4	38	29.1	33	37	28.5	33	40	31.7	33	9.1	0.0	<b>0.0243</b>
Heat	10	daGal4	4.3	♂	1	27	14.6	17	39	16.9	21	40	15.1	17	0.0	0.0	
Heat	10	daGal4	4.3	♂	2	31	25.7	28	38	25.3	28	39	28.4	33	10.7	17.9	<b>0.0013</b>
Heat	10	daGal4	4.3	♂	3	41	26.2	28	40	25.7	28	39	27.8	33	6.4	17.9	<b>0.0004</b>
Heat	10	daGal4	4.3	♂	4	41	24.2	28	40	24.9	28	35	27.1	28	8.9	0.0	<b>&lt;0.0001</b>
Heat	10	daGal4	9.1	♀	1	39	31.8	36	41	30.0	33	41	32.0	40	0.6	11.1	<b>0.0027</b>
Heat	10	daGal4	9.1	♀	2	40	32.8	40	40	30.7	36	41	35.0	40	6.9	0.0	<b>0.0051</b>
Heat	10	daGal4	9.1	♀	3	39	29.3	33	37	28.5	33	39	29.5	36	0.7	9.1	0.0638
Heat	10	daGal4	9.1	♂	1	40	25.8	28	38	25.3	28	39	29.0	33	12.5	17.9	<b>&lt;0.0001</b>
Heat	10	daGal4	9.1	♂	2	41	27.6	33	40	25.7	28	38	30.5	33	10.6	0.0	<b>&lt;0.0001</b>
Heat	10	daGal4	9.1	♂	3	43	25.1	28	40	24.9	28	41	27.5	28	9.6	0.0	<b>&lt;0.0001</b>
Heat	10	daGal4	3.2	♀	1	32	19.0	27	40	18.0	24	40	30.6	40	61.2	48.1	<b>&lt;0.0001</b>
Heat	10	daGal4	3.2	♀	2	39	35.3	40	41	30.0	33	40	32.0	36	0.0	0.0	
Heat	10	daGal4	3.2	♀	3	40	36.6	40	40	30.7	36	38	32.3	36	0.0	0.0	
Heat	10	daGal4	3.2	♀	4	37	32.0	40	37	28.5	33	40	29.4	33	0.0	0.0	
Heat	10	daGal4	3.2	♂	1	36	16.1	24	40	17.1	21	40	17.6	21	2.6	0.0	<b>0.0426</b>
Heat	10	daGal4	3.2	♂	2	40	33.5	40	38	25.3	28	42	29.4	33	0.0	0.0	
Heat	10	daGal4	3.2	♂	3	41	32.4	40	40	25.7	28	42	31.8	40	0.0	0.0	
Heat	10	daGal4	3.2	♂	4	43	30.3	36	40	24.9	28	46	28.1	33	0.0	0.0	
Heat	10	daGal4	10.1	♀	1	36	19.3	21	39	17.8	21	40	21.4	30	10.4	42.9	<b>0.0019</b>
Heat	10	daGal4	10.1	♀	2	41	34.1	40	41	30.0	33	40	30.4	33	0.0	0.0	
Heat	10	daGal4	10.1	♀	3	41	36.1	45	40	30.7	36	40	31.7	36	0.0	0.0	
Heat	10	daGal4	10.1	♀	4	39	33.4	40	37	28.5	33	38	28.5	33	0.0	0.0	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	10	daGal4	10.1	♂	1	40	16.6	21	39	16.9	21	38	17.9	21	6.2	0.0	<b>0.0296</b>
Heat	10	daGal4	10.1	♂	2	40	31.9	40	38	25.3	28	39	30.4	33	0.0	0.0	
Heat	10	daGal4	10.1	♂	3	42	32.5	40	40	25.7	28	39	31.9	36	0.0	0.0	
Heat	10	daGal4	10.1	♂	4	45	29.1	36	40	24.9	28	40	28.5	33	0.0	0.0	
Heat	10	daGal4	3.1	♀	1	40	15.5	21	40	18.0	24	40	21.6	32	19.7	33.3	<b>0.0006</b>
Heat	10	daGal4	3.1	♀	2	41	35.6	45	41	30.0	33	40	32.1	33	0.0	0.0	
Heat	10	daGal4	3.1	♀	3	35	36.0	40	40	30.7	36	41	31.0	36	0.0	0.0	
Heat	10	daGal4	3.1	♀	4	40	32.8	40	37	28.5	33	42	30.7	36	0.0	0.0	
Heat	10	daGal4	3.1	♂	1	39	13.3	21	40	17.1	21	40	18.8	24	9.6	14.3	<b>0.0068</b>
Heat	10	daGal4	3.1	♂	2	40	30.8	40	38	25.3	28	39	30.4	33	0.0	0.0	
Heat	10	daGal4	3.1	♂	3	40	32.6	40	40	25.7	28	40	29.7	33	0.0	0.0	
Heat	10	daGal4	3.1	♂	4	39	29.1	36	40	24.9	28	41	27.9	33	0.0	0.0	
Heat	10	daGal4	4.4	♀	1	39	17.6	21	39	17.8	21	39	18.6	21	4.6	0.0	<b>0.0338</b>
Heat	10	daGal4	4.4	♀	2	40	32.1	36	41	30.0	33	41	31.0	33	0.0	0.0	
Heat	10	daGal4	4.4	♀	3	40	34.5	40	40	30.7	36	42	29.6	36	-3.4	0.0	
Heat	10	daGal4	4.4	♀	4	38	29.8	36	37	28.5	33	41	28.1	33	-1.4	0.0	
Heat	10	daGal4	4.4	♂	1	39	13.9	17	39	16.9	21	40	15.8	17	0.0	0.0	<b>0.1136</b>
Heat	10	daGal4	4.4	♂	2	39	29.7	33	38	25.3	28	40	27.9	28	0.0	0.0	
Heat	10	daGal4	4.4	♂	3	39	29.9	33	40	25.7	28	41	29.0	33	0.0	0.0	
Heat	10	daGal4	4.4	♂	4	41	27.2	28	40	24.9	28	38	25.6	28	0.0	0.0	
Heat	10	DJ694	2.1	♀	1	40	20.8	30	38	20.4	30	40	20.1	30	-1.8	0.0	0.1930
Heat	10	DJ694	2.1	♀	2	39	31.5	36	40	33.3	36	39	30.6	36	-2.7	0.0	
Heat	10	DJ694	2.1	♀	3	39	33.5	40	41	35.3	40	40	32.6	40	-2.8	0.0	
Heat	10	DJ694	2.1	♀	4	36	30.1	33	39	31.3	33	39	31.1	33	0.0	0.0	
Heat	10	DJ694	2.1	♂	1	39	16.4	21	37	14.9	21	40	16.1	21	0.0	0.0	<b>0.0003</b>
Heat	10	DJ694	2.1	♂	2	39	27.0	28	40	27.9	28	41	26.6	28	-1.3	0.0	
Heat	10	DJ694	2.1	♂	3	38	27.4	33	40	26.3	28	40	24.6	28	-6.5	0.0	
Heat	10	DJ694	2.1	♂	4	40	24.7	28	38	27.4	33	39	24.9	28	0.0	0.0	
Heat	10	DJ694	4.3	♀	1	26	17.5	21	40	18.9	21	37	17.3	21	-0.8	0.0	<b>0.0176</b>
Heat	10	DJ694	4.3	♀	2	39	31.2	36	40	33.3	36	38	31.3	36	0.0	0.0	
Heat	10	DJ694	4.3	♀	3	41	32.2	36	41	35.3	40	40	34.3	40	0.0	0.0	
Heat	10	DJ694	4.3	♀	4	38	29.1	33	39	31.3	33	41	30.7	33	0.0	0.0	
Heat	10	DJ694	4.3	♂	1	27	14.6	17	40	16.0	17	38	14.9	17	0.0	0.0	0.2365
Heat	10	DJ694	4.3	♂	2	31	25.7	28	40	27.9	28	42	27.3	28	0.0	0.0	
Heat	10	DJ694	4.3	♂	3	41	26.2	28	40	26.3	28	38	25.9	28	-1.1	0.0	
Heat	10	DJ694	4.3	♂	4	41	24.2	28	38	27.4	33	40	26.1	28	0.0	0.0	
Heat	10	DJ694	9.1	♀	1	39	31.8	36	40	33.3	36	39	33.6	36	1.0	0.0	<b>0.0298</b>
Heat	10	DJ694	9.1	♀	2	40	32.8	40	41	35.3	40	41	37.4	40	5.9	0.0	
Heat	10	DJ694	9.1	♀	3	39	29.3	33	39	31.3	33	40	31.8	33	1.6	0.0	
Heat	10	DJ694	9.1	♂	1	40	25.8	28	40	27.9	28	41	27.6	28	0.0	0.0	
Heat	10	DJ694	9.1	♂	2	41	27.6	33	40	26.3	28	40	27.4	28	0.0	0.0	<b>&lt;0.0001</b>
Heat	10	DJ694	9.1	♂	3	43	25.1	28	38	27.4	33	43	26.0	28	0.0	0.0	
Heat	10	DJ694	3.2	♀	1	32	19.0	27	40	14.9	21	40	26.9	36	41.6	33.3	
Heat	10	DJ694	3.2	♀	2	39	35.3	40	40	33.3	36	40	35.2	40	0.0	0.0	
Heat	10	DJ694	3.2	♀	3	40	36.6	40	41	35.3	40	40	41.1	45	12.4	12.5	<b>&lt;0.0001</b>
Heat	10	DJ694	3.2	♀	4	37	32.0	40	39	31.3	33	40	36.7	45	14.6	12.5	
Heat	10	DJ694	3.2	♂	1	36	16.1	24	40	15.7	21	40	16.2	18	0.7	-14.3	
Heat	10	DJ694	3.2	♂	2	40	33.5	40	40	27.9	28	40	28.5	33	0.0	0.0	
Heat	10	DJ694	3.2	♂	3	41	32.4	40	40	26.3	28	40	29.9	33	0.0	0.0	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	10	DJ694	3.2	♂	4	43	30.3	36	38	27.4	33	39	27.8	33	0.0	0.0	0.1489
Heat	10	DJ694	10.1	♀	1	36	19.3	21	40	18.9	21	42	18.9	24	0.0	14.3	
Heat	10	DJ694	10.1	♀	2	41	34.1	40	40	33.3	36	40	33.8	40	0.0	0.0	
Heat	10	DJ694	10.1	♀	3	41	36.1	45	41	35.3	40	40	36.6	45	1.3	0.0	
Heat	10	DJ694	10.1	♀	4	39	33.4	40	39	31.3	33	40	32.7	36	0.0	0.0	0.0319
Heat	10	DJ694	10.1	♂	1	40	16.6	21	40	16.0	17	25	15.2	17	-4.8	0.0	
Heat	10	DJ694	10.1	♂	2	40	31.9	40	40	27.9	28	39	31.6	33	0.0	0.0	
Heat	10	DJ694	10.1	♂	3	42	32.5	40	40	26.3	28	41	30.1	36	0.0	0.0	
Heat	10	DJ694	10.1	♂	4	45	29.1	36	38	27.4	0.37	43	28.8	33	0.0	0.0	<0.0001
Heat	10	DJ694	3.1	♀	1	40	15.5	21	40	14.9	21	40	19.1	24	22.7	14.3	
Heat	10	DJ694	3.1	♀	2	41	35.6	45	40	33.3	36	40	32.0	33	-3.9	-8.3	
Heat	10	DJ694	3.1	♀	3	35	36.0	40	41	35.3	40	41	37.2	40	3.4	0.0	
Heat	10	DJ694	3.1	♀	4	40	32.8	40	39	31.3	33	38	31.9	36	0.0	0.0	0.1595
Heat	10	DJ694	3.1	♂	1	39	13.3	21	40	15.7	21	40	15.7	18	0.0	-14.3	
Heat	10	DJ694	3.1	♂	2	40	30.8	40	40	27.9	28	39	27.6	28	-1.1	0.0	
Heat	10	DJ694	3.1	♂	3	40	32.6	40	40	26.3	28	38	29.2	33	0.0	0.0	
Heat	10	DJ694	3.1	♂	4	39	29.1	36	38	27.4	33	39	26.7	28	-2.8	-15.2	0.0795
Heat	10	DJ694	4.4	♀	1	39	17.6	21	40	18.9	21	40	20.4	21	7.9	0.0	0.0016
Heat	10	DJ694	4.4	♀	2	40	32.1	36	40	33.3	36	40	30.1	33	-6.0	-8.3	0.0009
Heat	10	DJ694	4.4	♀	3	40	34.5	40	41	35.3	40	40	31.1	33	-9.9	-17.5	<0.0001
Heat	10	DJ694	4.4	♀	4	38	29.8	36	39	31.3	33	41	27.3	33	-8.3	0.0	0.0014
Heat	10	DJ694	4.4	♂	1	39	13.9	17	40	16.0	17	38	13.8	17	-0.6	0.0	0.9654
Heat	10	DJ694	4.4	♂	2	39	29.7	33	40	27.9	28	40	27.4	28	-1.8	0.0	0.0493
Heat	10	DJ694	4.4	♂	3	39	29.9	33	40	26.3	28	40	27.0	28	0.0	0.0	<0.0001
Heat	10	DJ694	4.4	♂	4	41	27.2	28	38	27.4	33	41	23.8	24	-12.6	-14.3	
Heat	10	D42	2.1	♀	1	40	20.8	30	38	22.7	30	40	20.3	25	-2.2	-16.7	
Heat	10	D42	2.1	♀	2	39	31.5	36	38	33.6	40	40	32.8	36	0.0	0.0	
Heat	10	D42	2.1	♀	3	39	33.5	40	40	35.4	40	31	32.5	36	-2.8	-10.0	0.0001
Heat	10	D42	2.1	♀	4	36	30.1	33	40	28.8	36	40	28.9	36	0.0	0.0	0.4803
Heat	10	D42	2.1	♂	1	39	16.4	21	36	13.7	17	40	13.5	17	-1.6	0.0	
Heat	10	D42	2.1	♂	2	39	27.0	28	42	27.8	33	50	25.1	33	-6.8	0.0	
Heat	10	D42	2.1	♂	3	38	27.4	33	40	27.6	33	40	28.1	33	1.8	0.0	
Heat	10	D42	2.1	♂	4	40	24.7	28	40	25.8	33	40	25.0	28	0.0	0.0	0.2837
Heat	10	D42	4.3	♀	1	26	17.5	21	39	21.3	30	40	19.3	21	0.0	0.0	
Heat	10	D42	4.3	♀	2	39	31.2	36	38	33.6	40	40	32.0	36	0.0	0.0	
Heat	10	D42	4.3	♀	3	41	32.2	36	40	35.4	40	39	34.7	40	0.0	0.0	
Heat	10	D42	4.3	♀	4	38	29.1	33	40	28.8	36	40	29.3	33	0.9	0.0	<0.0001
Heat	10	D42	4.3	♂	1	27	14.6	17	39	18.5	21	40	12.6	13	-13.9	-23.5	
Heat	10	D42	4.3	♂	2	31	25.7	28	42	27.8	33	40	30.2	33	8.6	0.0	
Heat	10	D42	4.3	♂	3	41	26.2	28	40	27.6	33	42	28.7	33	4.2	0.0	
Heat	10	D42	4.3	♂	4	41	24.2	28	40	25.8	33	40	25.1	28	0.0	0.0	0.0047
Heat	10	D42	9.1	♀	1	39	31.8	36	38	33.6	40	40	34.1	40	1.5	0.0	
Heat	10	D42	9.1	♀	2	40	32.8	40	40	35.4	40	40	34.7	40	0.0	0.0	
Heat	10	D42	9.1	♀	3	39	29.3	33	40	28.8	36	39	31.5	33	7.3	0.0	
Heat	10	D42	9.1	♂	1	40	25.8	28	42	27.8	33	39	27.9	33	0.5	0.0	0.6270
Heat	10	D42	9.1	♂	2	41	27.6	33	40	27.6	33	41	28.5	33	3.4	0.0	0.0760
Heat	10	D42	9.1	♂	3	43	25.1	28	40	25.8	33	38	23.8	28	-5.3	0.0	0.0182
Heat	10	D42	3.2	♀	1	32	19.0	27	37	18.6	27	40	30.8	36	62.1	33.3	<0.0001
Heat	10	D42	3.2	♀	2	39	35.3	40	38	33.6	40	40	36.3	40	3.0	0.0	0.0011

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Heat	10	D42	3.2	♀	3	40	36.6	40	40	35.4	40	40	37.7	40	3.2	0.0	<b>0.0006</b>
Heat	10	D42	3.2	♀	4	37	32.0	40	40	28.8	36	44	36.3	45	13.4	12.5	<b>&lt;0.0001</b>
Heat	10	D42	3.2	♂	1	36	16.1	24	38	15.9	21	40	16.3	24	1.2	0.0	0.4681
Heat	10	D42	3.2	♂	2	40	33.5	40	42	27.8	33	41	31.9	36	0.0	0.0	
Heat	10	D42	3.2	♂	3	41	32.4	40	40	27.6	33	43	33.4	40	3.0	0.0	0.1824
Heat	10	D42	3.2	♂	4	43	30.3	36	40	25.8	33	37	31.1	36	2.5	0.0	0.4366
Heat	10	D42	10.1	♀	1	36	19.3	21	39	21.3	30	31	26.0	0.79	22.2	0.0	<b>&lt;0.0001</b>
Heat	10	D42	10.1	♀	2	41	34.1	40	38	33.6	40	39	31.7	0.68	-5.5	12.5	<b>0.0149</b>
Heat	10	D42	10.1	♀	3	41	36.1	45	40	35.4	40	40	29.1	1.33	-17.7	0.0	<b>0.0022</b>
Heat	10	D42	10.1	♀	4	39	33.4	40	40	28.8	36	41	34.3	0.5	2.9	0.0	0.2401
Heat	10	D42	10.1	♂	1	40	16.6	21	39	18.5	21	36	19.2	0.47	3.4	14.3	<b>0.0002</b>
Heat	10	D42	10.1	♂	2	40	31.9	40	42	27.8	33	40	32.4	0.36	1.6	0.0	0.4031
Heat	10	D42	10.1	♂	3	42	32.5	40	40	27.6	33	47	33.3	0.41	2.7	0.0	0.4520
Heat	10	D42	10.1	♂	4	45	29.1	36	40	25.8	33	37	32.8	0.39	12.5	0.0	<b>&lt;0.0001</b>
Heat	10	D42	3.1	♀	1	40	15.5	21	37	18.6	27	40	18.4	24	0.0	0.0	
Heat	10	D42	3.1	♀	2	41	35.6	45	38	33.6	40	30	32.0	33	-4.8	-17.5	<b>0.0371</b>
Heat	10	D42	3.1	♀	3	35	36.0	40	40	35.4	40	40	28.3	36	-19.9	-10.0	<b>&lt;0.0001</b>
Heat	10	D42	3.1	♀	4	40	32.8	40	40	28.8	36	40	31.6	36	0.0	0.0	
Heat	10	D42	3.1	♂	1	39	13.3	21	38	15.9	21	40	11.6	15	-12.6	-28.6	<b>0.0115</b>
Heat	10	D42	3.1	♂	2	40	30.8	40	42	27.8	33	40	28.4	33	0.0	0.0	
Heat	10	D42	3.1	♂	3	40	32.6	40	40	27.6	33	40	28.6	33	0.0	0.0	
Heat	10	D42	3.1	♂	4	39	29.1	36	40	25.8	33	30	29.6	33	1.9	0.0	0.8362
Heat	10	D42	4.4	♀	1	39	17.6	21	39	21.3	30	40	23.3	30	9.4	0.0	<b>0.0109</b>
Heat	10	D42	4.4	♀	2	40	32.1	36	38	33.6	40	38	34.6	40	3.0	0.0	0.2075
Heat	10	D42	4.4	♀	3	40	34.5	40	40	35.4	40	40	35.1	40	0.0	0.0	0.2551
Heat	10	D42	4.4	♀	4	38	29.8	36	40	28.8	36	39	33.6	36	13.0	0.0	<b>&lt;0.0001</b>
Heat	10	D42	4.4	♂	1	39	13.9	17	39	18.5	21	39	14.4	17	0.0	0.0	
Heat	10	D42	4.4	♂	2	39	29.7	33	42	27.8	33	40	29.4	33	0.0	0.0	
Heat	10	D42	4.4	♂	3	39	29.9	33	40	27.6	33	41	29.8	33	0.0	0.0	
Heat	10	D42	4.4	♂	4	41	27.2	28	40	25.8	33	39	31.0	33	13.7	0.0	<b>&lt;0.0001</b>
Paraquat	3	daGal4	2.1	♀	1	40	29.4	47	40	25.0	42	40	24.6	52	-1.5	10.6	0.0802
Paraquat	3	daGal4	2.1	♀	2	40	18.9	30	40	14.4	20	40	15.3	20	0.0	0.0	
Paraquat	3	daGal4	2.1	♀	3	40	55.9	90	38	51.3	90	38	49.9	90	-2.6	0.0	0.7017
Paraquat	3	daGal4	2.1	♀	4	40	17.8	25	40	13.6	20	40	15.5	20	0.0	0.0	
Paraquat	3	daGal4	2.1	♀	5	37	56.4	84	40	43.6	90	39	42.1	90	-3.4	0.0	<b>0.0348</b>
Paraquat	3	daGal4	2.1	♀	6	42	50.9	84	39	41.6	74	39	45.3	90	0.0	7.1	
Paraquat	3	daGal4	2.1	♂	1	40	27.5	57	40	22.5	42	40	18.6	32	-17.2	-23.8	<b>0.0199</b>
Paraquat	3	daGal4	2.1	♂	2	40	17.9	25	40	14.1	20	40	14.8	25	0.0	0.0	
Paraquat	3	daGal4	2.1	♂	3	40	35.5	66	41	22.8	34	41	28.2	66	0.0	0.0	
Paraquat	3	daGal4	2.1	♂	4	40	17.8	25	40	14.1	20	40	13.8	20	-2.7	0.0	<b>0.0001</b>
Paraquat	3	daGal4	2.1	♂	5	34	40.2	84	40	26.6	50	40	27.6	50	0.0	0.0	
Paraquat	3	daGal4	2.1	♂	6	41	39.0	84	42	23.1	38	40	27.2	50	0.0	0.0	
Paraquat	3	daGal4	4.3	♀	1	40	30.8	43	40	38.8	56	40	28.5	56	-7.5	0.0	<b>0.0012</b>
Paraquat	3	daGal4	4.3	♀	2	42	49.1	84	38	51.3	90	40	40.9	74	-16.9	-11.9	<b>0.0135</b>
Paraquat	3	daGal4	4.3	♀	3	41	39.3	74	40	43.6	90	37	34.5	58	-12.0	-21.6	<b>0.0263</b>
Paraquat	3	daGal4	4.3	♀	4	40	43.2	74	39	41.6	74	41	45.1	74	4.3	0.0	0.2569
Paraquat	3	daGal4	4.3	♂	1	40	27.8	56	40	29.4	69	40	32.2	69	9.4	0.0	0.2330
Paraquat	3	daGal4	4.3	♂	2	50	42.9	84	41	22.8	34	40	30.5	74	0.0	0.0	
Paraquat	3	daGal4	4.3	♂	3	41	41.6	110	40	26.6	50	40	39.7	84	0.0	0.0	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	3	daGal4	4.3	♂	4	41	46.7	84	42	23.1	38	36	48.2	90	3.2	7.1	0.8014
Paraquat	3	daGal4	9.1	♀	1	39	21.2	32	36	16.9	32	39	23.0	41	8.6	28.1	<b>0.0002</b>
Paraquat	3	daGal4	9.1	♀	2	39	54.4	90	38	51.3	90	40	40.7	84	-20.7	-6.7	<b>0.0063</b>
Paraquat	3	daGal4	9.1	♀	3	40	21.5	32	37	18.5	32	40	17.8	23	-3.6	-28.1	<b>0.0162</b>
Paraquat	3	daGal4	9.1	♀	4	39	55.1	84	40	43.6	90	42	34.2	58	-21.5	-31.0	<b>0.0262</b>
Paraquat	3	daGal4	9.1	♀	5	46	49.4	90	39	41.6	74	40	41.2	84	-0.9	0.0	<b>0.0313</b>
Paraquat	3	daGal4	9.1	♂	1	40	14.7	23	39	17.6	32	40	14.3	23	-3.1	0.0	<b>0.0088</b>
Paraquat	3	daGal4	9.1	♂	2	42	31.0	66	41	22.8	34	40	31.1	58	0.5	0.0	<b>0.0004</b>
Paraquat	3	daGal4	9.1	♂	3	40	15.7	23	40	15.1	23	38	13.6	23	-9.7	0.0	<b>0.0249</b>
Paraquat	3	daGal4	9.1	♂	4	34	38.2	74	40	26.6	50	43	26.8	50	0.0	0.0	
Paraquat	3	daGal4	9.1	♂	5	39	31.2	66	42	23.1	38	39	25.7	46	0.0	0.0	
Paraquat	3	daGal4	3.2	♀	1	40	30.7	80	40	27.8	65	40	31.1	75	1.3	0.0	0.2841
Paraquat	3	daGal4	3.2	♀	2	36	69.0	118	38	51.3	90	40	50.8	110	-1.0	0.0	<b>0.0110</b>
Paraquat	3	daGal4	3.2	♀	3	38	67.4	110	40	43.6	90	42	54.8	90	0.0	0.0	
Paraquat	3	daGal4	3.2	♀	4	40	60.2	110	39	41.6	74	40	41.9	110	0.0	0.0	
Paraquat	3	daGal4	3.2	♂	1	40	33.9	80	40	25.1	51	40	42.1	94	24.0	17.5	<b>0.0005</b>
Paraquat	3	daGal4	3.2	♂	2	39	54.8	90	41	22.8	34	41	51.2	110	0.0	22.2	
Paraquat	3	daGal4	3.2	♂	3	40	62.8	110	40	26.6	50	41	41.6	110	0.0	0.0	
Paraquat	3	daGal4	3.2	♂	4	37	64.3	110	42	23.1	38	40	52.2	118	0.0	7.3	
Paraquat	3	daGal4	10.1	♀	1	40	41.6	117	40	42.5	81	39	54.3	105	27.6	0.0	<b>0.0252</b>
Paraquat	3	daGal4	10.1	♀	2	40	23.7	41	36	16.9	32	40	22.3	41	0.0	0.0	
Paraquat	3	daGal4	10.1	♀	3	28	66.1	90	38	51.3	90	42	67.0	110	1.5	22.2	<b>0.0101</b>
Paraquat	3	daGal4	10.1	♀	4	40	24.3	59	37	18.5	32	40	23.1	41	0.0	0.0	
Paraquat	3	daGal4	10.1	♀	5	39	88.3	118	40	43.6	90	41	60.0	110	0.0	0.0	
Paraquat	3	daGal4	10.1	♀	6	37	78.3	110	39	41.6	74	40	59.6	110	0.0	0.0	
Paraquat	3	daGal4	10.1	♂	1	40	63.7	117	40	34.0	69	40	69.0	129	8.4	10.3	0.2277
Paraquat	3	daGal4	10.1	♂	2	40	23.3	41	39	17.6	32	39	21.6	41	0.0	0.0	
Paraquat	3	daGal4	10.1	♂	3	39	47.5	90	41	22.8	34	43	42.5	110	0.0	22.2	
Paraquat	3	daGal4	10.1	♂	4	40	28.3	41	40	15.1	23	38	18.7	32	0.0	0.0	
Paraquat	3	daGal4	10.1	♂	5	39	73.1	130	40	26.6	50	41	42.6	110	0.0	0.0	
Paraquat	3	daGal4	10.1	♂	6	42	59.0	110	42	23.1	38	40	38.9	90	0.0	0.0	
Paraquat	3	daGal4	3.1	♀	1	40	33.4	64	40	36.4	64	40	35.0	64	0.0	0.0	
Paraquat	3	daGal4	3.1	♀	2	40	16.0	25	40	14.4	20	40	17.4	25	8.6	0.0	<b>0.0011</b>
Paraquat	3	daGal4	3.1	♀	3	40	46.1	74	38	51.3	90	40	55.4	90	8.1	0.0	<b>0.0016</b>
Paraquat	3	daGal4	3.1	♀	4	40	18.0	30	40	13.6	20	40	16.5	25	0.0	0.0	
Paraquat	3	daGal4	3.1	♀	5	36	50.6	84	40	43.6	90	41	58.1	84	14.8	0.0	<b>0.0242</b>
Paraquat	3	daGal4	3.1	♀	6	44	49.4	74	39	41.6	74	39	59.9	110	21.4	48.6	<b>0.0048</b>
Paraquat	3	daGal4	3.1	♂	1	40	23.3	39	40	26.8	55	40	38.8	82	44.8	49.1	<b>0.0002</b>
Paraquat	3	daGal4	3.1	♂	2	40	18.8	40	40	14.1	20	40	24.1	64	28.7	60.0	<b>0.0373</b>
Paraquat	3	daGal4	3.1	♂	3	45	41.4	90	41	22.8	34	41	59.2	110	42.8	22.2	<b>0.0009</b>
Paraquat	3	daGal4	3.1	♂	4	40	19.3	25	40	14.1	20	40	21.6	49	12.1	96.0	0.2077
Paraquat	3	daGal4	3.1	♂	5	39	41.6	84	40	26.6	50	41	53.8	110	29.1	31.0	<b>0.0115</b>
Paraquat	3	daGal4	3.1	♂	6	41	44.3	84	42	23.1	38	42	57.3	110	29.3	31.0	<b>0.0259</b>
Paraquat	3	daGal4	4.4	♀	1	40	45.4	69	40	38.8	56	40	45.0	81	0.0	17.4	
Paraquat	3	daGal4	4.4	♀	2	40	26.5	41	36	16.9	32	39	22.0	41	0.0	0.0	
Paraquat	3	daGal4	4.4	♀	3	36	53.7	90	38	51.3	90	41	46.9	110	-8.5	22.2	0.3531
Paraquat	3	daGal4	4.4	♀	4	40	28.2	48	37	18.5	32	43	20.0	41	0.0	0.0	
Paraquat	3	daGal4	4.4	♀	5	40	67.1	110	40	43.6	90	39	43.9	90	0.0	0.0	
Paraquat	3	daGal4	4.4	♀	6	41	57.2	90	39	41.6	74	41	40.6	84	-2.4	0.0	<b>0.0023</b>



Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	3	daGal4	4.4	♂	1	40	39.2	81	40	29.4	69	40	46.8	105	19.3	29.6	<b>0.0002</b>
Paraquat	3	daGal4	4.4	♂	2	39	19.1	32	39	17.6	32	39	17.7	59	0.0	84.4	<b>0.0444</b>
Paraquat	3	daGal4	4.4	♂	3	41	37.7	84	41	22.8	34	41	49.6	110	31.6	31.0	
Paraquat	3	daGal4	4.4	♂	4	40	19.3	32	40	15.1	23	41	16.7	23	0.0	0.0	
Paraquat	3	daGal4	4.4	♂	5	40	57.9	110	40	26.6	50	42	40.4	84	0.0	0.0	
Paraquat	3	daGal4	4.4	♂	6	40	43.0	110	42	23.1	38	40	32.1	84	0.0	0.0	
Paraquat	3	DJ694	2.1	♀	1	40	29.5	51	40	20.7	35	40	20.2	40	-2.5	0.0	0.7691
Paraquat	3	DJ694	2.1	♀	2	40	29.4	47	40	18.6	27	40	19.9	32	0.0	0.0	0.0938
Paraquat	3	DJ694	2.1	♀	3	40	18.9	30	40	15.6	25	40	14.1	20	-9.6	-20.0	
Paraquat	3	DJ694	2.1	♀	4	40	55.9	90	24	56.7	84	39	45.8	84	-17.9	0.0	
Paraquat	3	DJ694	2.1	♀	5	40	17.8	25	40	15.6	20	40	14.5	20	-7.2	0.0	
Paraquat	3	DJ694	2.1	♀	6	37	56.4	84	39	77.6	130	39	41.4	90	-26.6	0.0	
Paraquat	3	DJ694	2.1	♀	7	42	50.9	84	42	65.7	118	40	46.2	110	-9.2	0.0	<b>0.0027</b>
Paraquat	3	DJ694	2.1	♂	1	40	25.2	40	40	16.6	22	40	19.3	30	0.0	0.0	<b>0.0294</b>
Paraquat	3	DJ694	2.1	♂	2	40	27.5	57	38	19.1	22	40	17.4	22	-9.1	0.0	
Paraquat	3	DJ694	2.1	♂	3	40	17.9	25	40	18.0	30	40	17.6	30	-1.4	0.0	
Paraquat	3	DJ694	2.1	♂	4	40	35.5	66	45	21.5	38	50	36.6	74	3.0	12.1	
Paraquat	3	DJ694	2.1	♂	5	40	17.8	25	40	17.5	25	40	19.1	30	7.7	20.0	
Paraquat	3	DJ694	2.1	♂	6	34	40.2	84	41	20.0	34	38	24.1	42	0.0	0.0	0.1967
Paraquat	3	DJ694	2.1	♂	7	41	39.0	84	41	22.5	34	40	28.7	66	0.0	0.0	
Paraquat	3	DJ694	4.3	♀	1	40	30.8	43	40	30.9	56	40	20.9	31	-32.3	-27.9	<b>&lt;0.0001</b>
Paraquat	3	DJ694	4.3	♀	2	42	49.1	84	24	56.7	84	35	39.9	66	-18.7	-21.4	<b>0.0006</b>
Paraquat	3	DJ694	4.3	♀	3	41	39.3	74	39	77.6	130	37	54.2	84	0.0	0.0	0.3893
Paraquat	3	DJ694	4.3	♀	4	40	43.2	74	42	65.7	118	39	40.1	66	-7.2	-10.8	
Paraquat	3	DJ694	4.3	♂	1	40	27.8	56	40	15.3	22	40	18.0	43	0.0	0.0	
Paraquat	3	DJ694	4.3	♂	2	50	42.9	84	45	21.5	38	41	25.4	38	0.0	0.0	
Paraquat	3	DJ694	4.3	♂	3	41	41.6	110	41	20.0	34	40	26.5	34	0.0	0.0	
Paraquat	3	DJ694	4.3	♂	4	41	46.7	84	41	22.5	34	39	28.8	50	0.0	0.0	<b>0.0006</b>
Paraquat	3	DJ694	9.1	♀	1	39	21.2	32	40	16.6	23	40	16.6	32	0.0	0.0	
Paraquat	3	DJ694	9.1	♀	2	39	54.4	90	24	56.7	84	38	43.9	66	-19.3	-21.4	
Paraquat	3	DJ694	9.1	♀	3	40	21.5	32	39	18.5	32	39	21.2	32	0.0	0.0	
Paraquat	3	DJ694	9.1	♀	4	39	55.1	84	39	77.6	130	40	45.3	66	-17.8	-21.4	
Paraquat	3	DJ694	9.1	♀	5	46	49.4	90	42	65.7	118	41	46.7	74	-5.4	-17.8	<b>0.0002</b>
Paraquat	3	DJ694	9.1	♂	1	40	14.7	23	40	13.1	16	40	12.9	16	-1.3	0.0	<b>0.0042</b>
Paraquat	3	DJ694	9.1	♂	2	42	31.0	66	45	21.5	38	41	22.5	30	0.0	-21.1	<b>0.0061</b>
Paraquat	3	DJ694	9.1	♂	3	40	15.7	23	40	15.1	16	39	13.4	16	-10.7	0.0	
Paraquat	3	DJ694	9.1	♂	4	34	38.2	74	41	20.0	34	42	20.3	42	0.0	0.0	
Paraquat	3	DJ694	9.1	♂	5	39	31.2	66	41	22.5	34	40	25.3	42	0.0	0.0	
Paraquat	3	DJ694	3.2	♀	1	40	30.7	80	40	25.7	45	40	43.0	94	40.4	17.5	<b>0.0049</b>
Paraquat	3	DJ694	3.2	♀	2	36	69.0	118	24	56.7	84	29	43.8	110	-22.7	0.0	<b>0.0006</b>
Paraquat	3	DJ694	3.2	♀	3	38	67.4	110	39	77.6	130	42	57.3	110	-15.0	0.0	<b>0.0135</b>
Paraquat	3	DJ694	3.2	♀	4	40	60.2	110	42	65.7	118	42	69.3	118	5.6	0.0	0.0540
Paraquat	3	DJ694	3.2	♂	1	40	33.9	80	40	21.6	35	40	40.7	94	20.0	17.5	0.1150
Paraquat	3	DJ694	3.2	♂	2	39	54.8	90	45	21.5	38	44	34.4	74	0.0	0.0	<b>&lt;0.0001</b>
Paraquat	3	DJ694	3.2	♂	3	40	62.8	110	41	20.0	34	40	35.5	84	0.0	0.0	
Paraquat	3	DJ694	3.2	♂	4	37	64.3	110	41	22.5	34	39	40.4	90	0.0	0.0	
Paraquat	3	DJ694	10.1	♀	1	40	41.6	117	40	60.1	117	40	89.8	129	49.5	10.3	
Paraquat	3	DJ694	10.1	♀	2	40	23.7	41	40	16.6	23	40	23.3	41	0.0	0.0	
Paraquat	3	DJ694	10.1	♀	3	28	66.1	90	24	56.7	84	34	43.9	110	-22.5	22.2	<b>0.0158</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	3	DJ694	10.1	♀	4	40	24.3	59	39	18.5	32	39	26.0	59	6.9	0.0	<b>0.0003</b>
Paraquat	3	DJ694	10.1	♀	5	39	88.3	118	39	77.6	130	46	50.8	110	-34.5	-6.8	<b>0.0005</b>
Paraquat	3	DJ694	10.1	♀	6	37	78.3	110	42	65.7	118	30	57.5	110	-12.4	0.0	<b>0.0142</b>
Paraquat	3	DJ694	10.1	♂	1	40	63.7	117	39	33.1	81	40	79.0	141	24.0	20.5	<b>0.0160</b>
Paraquat	3	DJ694	10.1	♂	2	40	23.3	41	40	13.1	16	34	18.7	32	0.0	0.0	
Paraquat	3	DJ694	10.1	♂	3	39	47.5	90	45	21.5	38	46	35.3	74	0.0	0.0	
Paraquat	3	DJ694	10.1	♂	4	40	28.3	41	40	15.1	16	37	22.1	41	0.0	0.0	
Paraquat	3	DJ694	10.1	♂	5	39	73.1	130	41	20.0	34	26	40.2	84	0.0	0.0	
Paraquat	3	DJ694	10.1	♂	6	42	59.0	110	41	22.5	34	39	34.7	90	0.0	0.0	
Paraquat	3	DJ694	3.1	♀	1	40	31.4	45	40	20.7	35	40	22.6	35	0.0	0.0	
Paraquat	3	DJ694	3.1	♀	2	40	33.4	64	40	40.1	76	40	28.5	64	-14.7	0.0	<b>0.0009</b>
Paraquat	3	DJ694	3.1	♀	3	40	16.0	25	40	15.6	25	40	13.0	15	-16.8	-40.0	<b>0.0002</b>
Paraquat	3	DJ694	3.1	♀	4	40	46.1	74	24	56.7	84	37	53.7	90	0.0	7.1	
Paraquat	3	DJ694	3.1	♀	5	40	18.0	30	40	15.6	20	40	13.6	20	-12.8	0.0	<b>0.0076</b>
Paraquat	3	DJ694	3.1	♀	6	36	50.6	84	39	77.6	130	41	42.1	110	-16.8	0.0	0.1365
Paraquat	3	DJ694	3.1	♀	7	44	49.4	74	42	65.7	118	40	47.1	90	-4.7	0.0	<b>0.0008</b>
Paraquat	3	DJ694	3.1	♂	1	40	30.5	57	40	16.6	22	40	27.1	63	0.0	10.5	
Paraquat	3	DJ694	3.1	♂	2	40	23.3	39	40	18.9	25	40	21.5	35	0.0	0.0	
Paraquat	3	DJ694	3.1	♂	3	40	18.8	40	40	18.0	30	40	20.1	40	7.2	0.0	0.1637
Paraquat	3	DJ694	3.1	♂	4	45	41.4	90	45	21.5	38	54	42.6	84	2.7	0.0	0.7185
Paraquat	3	DJ694	3.1	♂	5	40	19.3	25	40	17.5	25	40	19.9	30	3.2	20.0	0.0502
Paraquat	3	DJ694	3.1	♂	6	39	41.6	84	41	20.0	34	39	33.5	90	0.0	7.1	
Paraquat	3	DJ694	3.1	♂	7	41	44.3	84	41	22.5	34	44	37.1	58	0.0	0.0	
Paraquat	3	DJ694	4.4	♀	1	40	35.5	58	40	45.1	67	40	55.8	97	23.8	44.8	<b>0.0047</b>
Paraquat	3	DJ694	4.4	♀	2	40	45.4	69	40	30.9	56	40	28.1	56	-9.0	0.0	0.3708
Paraquat	3	DJ694	4.4	♀	3	40	26.5	41	40	16.6	23	40	21.0	32	0.0	0.0	
Paraquat	3	DJ694	4.4	♀	4	36	53.7	90	24	56.7	84	40	52.8	110	-1.7	22.2	0.5266
Paraquat	3	DJ694	4.4	♀	5	40	28.2	48	39	18.5	32	40	23.0	32	0.0	0.0	
Paraquat	3	DJ694	4.4	♀	6	40	67.1	110	39	77.6	130	39	46.5	74	-30.7	-32.7	<b>&lt;0.0001</b>
Paraquat	3	DJ694	4.4	♀	7	41	57.2	90	42	65.7	118	46	50.6	110	-11.5	0.0	<b>0.0091</b>
Paraquat	3	DJ694	4.4	♂	1	40	38.7	67	40	25.5	34	40	34.2	77	0.0	14.9	
Paraquat	3	DJ694	4.4	♂	2	40	39.2	81	40	15.3	22	40	20.1	31	0.0	0.0	
Paraquat	3	DJ694	4.4	♂	3	39	19.1	32	40	13.1	16	40	17.2	32	0.0	0.0	
Paraquat	3	DJ694	4.4	♂	4	41	37.7	84	45	21.5	38	42	29.3	42	0.0	0.0	
Paraquat	3	DJ694	4.4	♂	5	40	19.3	32	40	15.1	16	40	16.5	23	0.0	0.0	
Paraquat	3	DJ694	4.4	♂	6	40	57.9	110	41	20.0	34	39	24.2	34	0.0	0.0	
Paraquat	3	DJ694	4.4	♂	7	40	43.0	110	41	22.5	34	41	26.7	58	0.0	0.0	
Paraquat	3	D42	2.1	♀	1	40	29.5	51	40	23.3	35	40	24.5	45	0.0	0.0	
Paraquat	3	D42	2.1	♀	2	40	29.4	47	40	28.1	52	40	27.3	42	-3.1	-10.6	0.2322
Paraquat	3	D42	2.1	♀	3	40	18.9	30	40	16.6	20	40	15.8	20	-5.3	0.0	<b>0.0010</b>
Paraquat	3	D42	2.1	♀	4	40	55.9	90	40	52.6	110	41	24.3	42	-53.7	-53.3	<b>&lt;0.0001</b>
Paraquat	3	D42	2.1	♀	5	40	17.8	25	40	17.5	25	40	16.9	25	-3.6	0.0	0.2549
Paraquat	3	D42	2.1	♀	6	37	56.4	84	41	61.9	110	41	24.8	46	-56.0	-45.2	<b>&lt;0.0001</b>
Paraquat	3	D42	2.1	♀	7	42	50.9	84	41	58.4	110	40	21.7	38	-57.3	-54.8	<b>&lt;0.0001</b>
Paraquat	3	D42	2.1	♂	1	40	25.2	40	40	22.8	30	40	23.5	40	0.0	0.0	
Paraquat	3	D42	2.1	♂	2	40	27.5	57	40	26.3	47	40	20.6	37	-21.4	-21.3	<b>0.0004</b>
Paraquat	3	D42	2.1	♂	3	40	17.9	25	40	16.3	20	40	14.6	20	-10.0	0.0	<b>0.0002</b>
Paraquat	3	D42	2.1	♂	4	40	35.5	66	40	33.0	74	38	33.4	58	0.0	-12.1	
Paraquat	3	D42	2.1	♂	5	40	17.8	25	40	15.9	25	40	14.4	20	-9.4	-20.0	<b>0.0003</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	3	D42	2.1	♂	6	34	40.2	84	40	28.7	58	40	44.7	74	11.1	0.0	0.4630
Paraquat	3	D42	2.1	♂	7	41	39.0	84	40	38.6	84	31	45.6	84	17.0	0.0	0.1017
Paraquat	3	D42	4.3	♀	1	40	30.8	43	40	43.8	69	40	33.2	69	0.0	0.0	
Paraquat	3	D42	4.3	♀	2	42	49.1	84	40	52.6	110	40	35.3	66	-28.3	-21.4	<b>0.0003</b>
Paraquat	3	D42	4.3	♀	3	41	39.3	74	41	61.9	110	40	31.4	50	-20.0	-32.4	<b>0.0098</b>
Paraquat	3	D42	4.3	♀	4	40	43.2	74	41	58.4	110	40	27.8	58	-35.8	-21.6	<b>0.0001</b>
Paraquat	3	D42	4.3	♂	1	40	27.8	56	40	31.1	56	40	27.1	56	-2.5	0.0	0.2014
Paraquat	3	D42	4.3	♂	2	50	42.9	84	40	33.0	74	41	44.1	84	2.9	0.0	<b>0.0011</b>
Paraquat	3	D42	4.3	♂	3	41	41.6	110	40	28.7	58	39	44.1	90	6.0	0.0	0.5716
Paraquat	3	D42	4.3	♂	4	41	46.7	84	40	38.6	84	41	39.4	74	0.0	-11.9	
Paraquat	3	D42	9.1	♀	1	39	21.2	32	40	24.2	41	42	27.1	48	12.1	17.1	<b>0.0028</b>
Paraquat	3	D42	9.1	♀	2	39	54.4	90	40	52.6	110	40	28.3	58	-46.1	-35.6	<b>&lt;0.0001</b>
Paraquat	3	D42	9.1	♀	3	40	21.5	32	40	25.8	41	41	30.0	48	16.3	17.1	<b>0.0495</b>
Paraquat	3	D42	9.1	♀	4	39	55.1	84	41	61.9	110	40	30.4	58	-44.9	-31.0	<b>&lt;0.0001</b>
Paraquat	3	D42	9.1	♀	5	46	49.4	90	41	58.4	110	42	25.4	42	-48.5	-53.3	<b>&lt;0.0001</b>
Paraquat	3	D42	9.1	♂	1	40	14.7	23	40	16.3	23	40	14.9	23	0.0	0.0	
Paraquat	3	D42	9.1	♂	2	42	31.0	66	40	33.0	74	43	37.6	74	14.0	0.0	<b>0.0066</b>
Paraquat	3	D42	9.1	♂	3	40	15.7	23	40	20.2	32	40	17.4	32	0.0	0.0	
Paraquat	3	D42	9.1	♂	4	34	38.2	74	40	28.7	58	40	34.5	74	0.0	0.0	
Paraquat	3	D42	9.1	♂	5	39	31.2	66	40	38.6	84	39	33.2	58	0.0	-12.1	
Paraquat	3	D42	3.2	♀	1	40	30.7	80	40	30.1	55	40	32.0	75	4.3	0.0	0.3500
Paraquat	3	D42	3.2	♀	2	36	69.0	118	40	52.6	110	40	25.0	42	-52.4	-61.8	<b>&lt;0.0001</b>
Paraquat	3	D42	3.2	♀	3	38	67.4	110	41	61.9	110	40	20.6	30	-66.7	-72.7	<b>&lt;0.0001</b>
Paraquat	3	D42	3.2	♀	4	40	60.2	110	41	58.4	110	40	19.7	38	-66.3	-65.5	<b>&lt;0.0001</b>
Paraquat	3	D42	3.2	♂	1	40	33.9	80	40	25.6	45	40	36.6	88	7.9	10.0	<b>0.0031</b>
Paraquat	3	D42	3.2	♂	2	39	54.8	90	40	33.0	74	42	45.4	110	0.0	22.2	
Paraquat	3	D42	3.2	♂	3	40	62.8	110	40	28.7	58	39	36.3	74	0.0	0.0	
Paraquat	3	D42	3.2	♂	4	37	64.3	110	40	38.6	84	41	49.9	110	0.0	0.0	
Paraquat	3	D42	10.1	♀	1	40	41.6	117	40	53.0	117	40	45.2	105	0.0	-10.3	
Paraquat	3	D42	10.1	♀	2	40	23.7	41	40	24.2	41	39	31.3	59	29.7	43.9	<b>0.0008</b>
Paraquat	3	D42	10.1	♀	3	28	66.1	90	40	52.6	110	44	47.2	110	-10.1	0.0	0.1142
Paraquat	3	D42	10.1	♀	4	40	24.3	59	40	25.8	41	40	32.2	48	24.6	0.0	<b>0.0014</b>
Paraquat	3	D42	10.1	♀	5	39	88.3	118	41	61.9	110	40	28.9	66	-53.3	-40.0	<b>&lt;0.0001</b>
Paraquat	3	D42	10.1	♀	6	37	78.3	110	41	58.4	110	40	31.1	84	-46.9	-23.6	<b>&lt;0.0001</b>
Paraquat	3	D42	10.1	♂	1	40	63.7	117	40	54.4	105	40	58.7	117	0.0	0.0	
Paraquat	3	D42	10.1	♂	2	40	23.3	41	40	16.3	23	41	25.9	59	10.8	43.9	0.2396
Paraquat	3	D42	10.1	♂	3	39	47.5	90	40	33.0	74	46	49.8	110	4.7	22.2	<b>0.0005</b>
Paraquat	3	D42	10.1	♂	4	40	28.3	41	40	20.2	32	40	24.6	41	0.0	0.0	
Paraquat	3	D42	10.1	♂	5	39	73.1	130	40	28.7	58	41	46.9	110	0.0	0.0	
Paraquat	3	D42	10.1	♂	6	42	59.0	110	40	38.6	84	39	35.5	90	-7.9	0.0	<b>0.0001</b>
Paraquat	3	D42	3.1	♀	1	40	31.4	45	40	23.3	35	40	29.6	51	0.0	13.3	
Paraquat	3	D42	3.1	♀	2	40	33.4	64	38	37.2	76	40	30.6	64	-8.4	0.0	0.0687
Paraquat	3	D42	3.1	♀	3	40	16.0	25	40	16.6	20	40	15.6	25	-2.3	0.0	0.2561
Paraquat	3	D42	3.1	♀	4	40	46.1	74	40	52.6	110	50	40.9	74	-11.3	0.0	0.0505
Paraquat	3	D42	3.1	♀	5	40	18.0	30	40	17.5	25	40	18.9	30	4.9	0.0	0.1826
Paraquat	3	D42	3.1	♀	6	36	50.6	84	41	61.9	110	40	30.7	58	-39.3	-31.0	<b>&lt;0.0001</b>
Paraquat	3	D42	3.1	♀	7	44	49.4	74	41	58.4	110	39	26.9	50	-45.5	-32.4	<b>&lt;0.0001</b>
Paraquat	3	D42	3.1	♂	1	40	30.5	57	40	22.8	30	40	39.7	69	30.1	21.1	<b>0.0080</b>
Paraquat	3	D42	3.1	♂	2	40	23.3	39	38	35.0	70	40	44.6	82	27.3	17.1	<b>0.0195</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	3	D42	3.1	♂	3	40	18.8	40	40	16.3	20	40	24.5	49	30.4	22.5	<b>0.0013</b>
Paraquat	3	D42	3.1	♂	4	45	41.4	90	40	33.0	74	40	51.3	110	23.7	22.2	<b>0.0004</b>
Paraquat	3	D42	3.1	♂	5	40	19.3	25	40	15.9	25	40	24.5	40	27.1	60.0	<b>0.0010</b>
Paraquat	3	D42	3.1	♂	6	39	41.6	84	40	28.7	58	37	55.5	110	33.2	31.0	<b>0.0106</b>
Paraquat	3	D42	3.1	♂	7	41	44.3	84	40	38.6	84	44	52.6	110	18.6	31.0	<b>0.0059</b>
Paraquat	3	D42	4.4	♀	1	40	35.5	58	40	37.7	58	40	49.5	72	31.4	24.1	<b>0.0001</b>
Paraquat	3	D42	4.4	♀	2	40	45.4	69	40	43.8	69	40	46.1	69	1.4	0.0	0.6113
Paraquat	3	D42	4.4	♀	3	40	26.5	41	40	24.2	41	46	27.6	41	4.4	0.0	0.1040
Paraquat	3	D42	4.4	♀	4	36	53.7	90	40	52.6	110	42	44.8	84	-14.8	-6.7	<b>0.0320</b>
Paraquat	3	D42	4.4	♀	5	40	28.2	48	40	25.8	41	47	27.2	41	0.0	0.0	
Paraquat	3	D42	4.4	♀	6	40	67.1	110	41	61.9	110	41	46.8	74	-24.4	-32.7	<b>0.0005</b>
Paraquat	3	D42	4.4	♀	7	41	57.2	90	41	58.4	110	40	46.1	84	-19.5	-6.7	<b>0.0075</b>
Paraquat	3	D42	4.4	♂	1	40	38.7	67	40	33.3	58	40	49.2	87	27.1	29.9	<b>0.0038</b>
Paraquat	3	D42	4.4	♂	2	40	39.2	81	40	31.1	56	40	36.3	69	0.0	0.0	
Paraquat	3	D42	4.4	♂	3	39	19.1	32	40	16.3	23	42	18.5	32	0.0	0.0	
Paraquat	3	D42	4.4	♂	4	41	37.7	84	40	33.0	74	39	33.0	74	0.0	0.0	
Paraquat	3	D42	4.4	♂	5	40	19.3	32	40	20.2	32	41	19.5	32	0.0	0.0	
Paraquat	3	D42	4.4	♂	6	40	57.9	110	40	28.7	58	40	37.8	74	0.0	0.0	
Paraquat	3	D42	4.4	♂	7	40	43.0	110	40	38.6	84	38	33.4	58	-13.4	-31.0	<b>0.0268</b>
Paraquat	10	daGal4	2.1	♀	1	40	25.3	52	36	15.8	32	40	14.3	22	-9.5	-31.3	0.3221
Paraquat	10	daGal4	2.1	♀	2	40	17.9	26	40	14.7	22	42	13.1	26	-10.6	0.0	0.1758
Paraquat	10	daGal4	2.1	♀	3	36	18.6	26	40	19.1	30	41	17.4	30	-6.1	0.0	0.2041
Paraquat	10	daGal4	2.1	♀	4	41	19.3	22	45	17.3	26	44	15.8	22	-8.5	0.0	<b>0.0001</b>
Paraquat	10	daGal4	2.1	♂	1	40	24.5	47	38	20.2	42	40	21.8	47	0.0	0.0	
Paraquat	10	daGal4	2.1	♂	2	41	17.6	26	40	17.5	30	42	13.7	22	-21.5	-15.4	<b>0.0009</b>
Paraquat	10	daGal4	2.1	♂	3	40	15.4	22	45	13.3	18	42	13.4	22	0.0	0.0	
Paraquat	10	daGal4	2.1	♂	4	40	15.9	30	45	14.4	18	43	16.2	42	1.8	40.0	0.4360
Paraquat	10	daGal4	4.3	♀	1	40	20.8	31	35	15.4	22	40	17.4	31	0.0	0.0	
Paraquat	10	daGal4	4.3	♀	2	40	18.2	33	40	13.2	25	40	16.0	25	0.0	0.0	
Paraquat	10	daGal4	4.3	♀	3	40	18.5	26	40	14.7	22	40	14.1	30	-4.1	15.4	<b>0.0015</b>
Paraquat	10	daGal4	4.3	♀	4	40	15.8	25	40	13.9	25	40	16.1	25	2.2	0.0	<b>0.0225</b>
Paraquat	10	daGal4	4.3	♀	5	42	24.3	42	40	19.1	30	40	18.9	35	-1.3	0.0	<b>0.0010</b>
Paraquat	10	daGal4	4.3	♀	6	42	19.5	26	45	17.3	26	41	19.1	26	0.0	0.0	
Paraquat	10	daGal4	4.3	♂	1	40	20.5	31	40	18.2	31	40	23.6	43	15.1	38.7	<b>0.0010</b>
Paraquat	10	daGal4	4.3	♂	2	40	13.4	20	40	12.7	16	40	14.8	25	10.1	25.0	<b>0.0115</b>
Paraquat	10	daGal4	4.3	♂	3	58	18.7	26	40	17.5	30	44	13.6	22	-22.0	-15.4	<b>0.0015</b>
Paraquat	10	daGal4	4.3	♂	4	40	14.0	20	40	13.7	25	40	13.4	20	-1.6	0.0	0.5721
Paraquat	10	daGal4	4.3	♂	5	42	16.0	35	45	13.3	18	14	15.7	18	0.0	0.0	
Paraquat	10	daGal4	4.3	♂	6	40	13.6	22	45	14.4	18	48	16.6	30	16.0	36.4	<b>0.0136</b>
Paraquat	10	daGal4	9.1	♀	1	40	19.0	27	39	14.3	21	40	16.5	40	0.0	48.1	
Paraquat	10	daGal4	9.1	♀	2	41	18.7	30	40	14.7	22	41	15.6	26	0.0	0.0	
Paraquat	10	daGal4	9.1	♀	3	41	18.2	27	40	14.9	21	30	12.5	21	-15.7	0.0	<b>0.0072</b>
Paraquat	10	daGal4	9.1	♀	4	42	22.8	35	40	19.1	30	41	18.6	38	-2.7	8.6	<b>0.0050</b>
Paraquat	10	daGal4	9.1	♀	5	42	21.0	30	45	17.3	26	41	16.0	18	-7.7	-30.8	0.1465
Paraquat	10	daGal4	9.1	♂	1	40	15.6	21	41	11.7	15	40	10.5	15	-10.3	0.0	<b>0.0094</b>
Paraquat	10	daGal4	9.1	♂	2	38	16.3	30	40	17.5	30	42	13.7	22	-16.1	-26.7	<b>0.0017</b>
Paraquat	10	daGal4	9.1	♂	3	40	17.7	27	39	13.4	21	40	10.9	15	-18.7	-28.6	<b>0.0017</b>
Paraquat	10	daGal4	9.1	♂	4	40	14.1	22	45	13.3	18	40	12.5	14	-6.1	-22.2	<b>0.0059</b>
Paraquat	10	daGal4	9.1	♂	5	43	13.1	22	45	14.4	18	44	11.5	18	-12.4	0.0	<b>0.0096</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	10	daGal4	3.2	♀	1	38	19.1	40	40	15.3	26	40	15.1	26	-1.0	0.0	<b>0.0198</b>
Paraquat	10	daGal4	3.2	♀	2	40	19.2	33	40	13.2	25	40	16.6	25	0.0	0.0	
Paraquat	10	daGal4	3.2	♀	3	35	17.1	30	40	14.7	22	40	20.5	35	19.7	16.7	<b>0.0387</b>
Paraquat	10	daGal4	3.2	♀	4	40	17.3	25	40	13.9	25	40	17.8	33	3.0	32.0	<b>0.0011</b>
Paraquat	10	daGal4	3.2	♀	5	40	22.2	42	40	19.1	30	43	24.5	35	10.4	0.0	<b>0.0002</b>
Paraquat	10	daGal4	3.2	♀	6	39	19.9	35	45	17.3	26	33	23.1	42	16.2	20.0	<b>0.0020</b>
Paraquat	10	daGal4	3.2	♂	1	38	24.3	45	40	19.9	45	40	44.7	75	83.4	66.7	<b>&lt;0.0001</b>
Paraquat	10	daGal4	3.2	♂	2	40	18.3	25	40	12.7	16	40	17.5	48	0.0	92.0	
Paraquat	10	daGal4	3.2	♂	3	38	25.0	42	40	17.5	30	37	25.1	61	0.4	45.2	<b>0.0014</b>
Paraquat	10	daGal4	3.2	♂	4	40	18.4	33	40	13.7	25	40	18.2	33	0.0	0.0	
Paraquat	10	daGal4	3.2	♂	5	38	24.3	61	45	13.3	18	37	33.8	70	38.9	14.8	<b>0.0082</b>
Paraquat	10	daGal4	3.2	♂	6	39	29.8	61	45	14.4	18	37	34.4	70	15.4	14.8	0.1981
Paraquat	10	daGal4	10.1	♀	1	29	17.3	22	31	17.2	17	40	18.2	28	4.8	27.3	0.2535
Paraquat	10	daGal4	10.1	♀	2	40	18.9	27	39	14.3	21	40	14.2	27	-1.3	0.0	0.7502
Paraquat	10	daGal4	10.1	♀	3	36	22.9	38	40	14.7	22	38	25.3	61	10.1	60.5	0.4944
Paraquat	10	daGal4	10.1	♀	4	40	18.8	27	40	14.9	21	36	17.2	27	0.0	0.0	
Paraquat	10	daGal4	10.1	♀	5	36	27.9	61	40	19.1	30	40	23.4	42	0.0	0.0	
Paraquat	10	daGal4	10.1	♀	6	37	24.2	38	45	17.3	26	43	23.9	61	0.0	60.5	
Paraquat	10	daGal4	10.1	♂	1	37	18.8	28	31	20.1	42	38	39.7	89	97.0	111.9	<b>&lt;0.0001</b>
Paraquat	10	daGal4	10.1	♂	2	40	25.9	40	41	11.7	15	40	14.8	21	0.0	0.0	
Paraquat	10	daGal4	10.1	♂	3	38	25.9	61	40	17.5	30	40	27.2	70	5.1	14.8	0.8843
Paraquat	10	daGal4	10.1	♂	4	40	20.6	40	39	13.4	21	39	19.7	40	0.0	0.0	
Paraquat	10	daGal4	10.1	♂	5	37	25.4	42	45	13.3	18	41	28.5	70	12.3	66.7	0.6356
Paraquat	10	daGal4	10.1	♂	6	39	24.7	42	45	14.4	18	40	20.4	38	0.0	0.0	
Paraquat	10	daGal4	3.1	♀	1	40	12.5	22	40	12.7	22	40	14.1	30	10.8	36.4	0.2253
Paraquat	10	daGal4	3.1	♀	2	43	14.0	22	40	14.7	22	39	16.1	22	9.2	0.0	<b>0.0228</b>
Paraquat	10	daGal4	3.1	♀	3	40	17.9	30	40	19.1	30	44	17.7	30	-1.0	0.0	0.2319
Paraquat	10	daGal4	3.1	♀	4	44	18.2	35	45	17.3	26	42	17.5	38	0.0	8.6	
Paraquat	10	daGal4	3.1	♂	1	33	23.5	34	39	23.6	61	40	52.9	93	123.9	52.5	<b>&lt;0.0001</b>
Paraquat	10	daGal4	3.1	♂	2	41	19.1	35	40	17.5	30	39	14.6	22	-16.5	-26.7	<b>0.0019</b>
Paraquat	10	daGal4	3.1	♂	3	42	16.6	30	45	13.3	18	40	17.3	30	4.5	0.0	0.5164
Paraquat	10	daGal4	3.1	♂	4	42	15.1	26	45	14.4	18	43	15.2	22	0.4	0.0	0.2269
Paraquat	10	daGal4	4.4	♀	1	40	26.2	43	35	15.4	22	40	17.2	31	0.0	0.0	
Paraquat	10	daGal4	4.4	♀	2	40	19.8	27	39	14.3	21	69	16.0	27	0.0	0.0	
Paraquat	10	daGal4	4.4	♀	3	40	17.0	26	40	14.7	22	39	13.2	26	-10.3	0.0	<b>0.0009</b>
Paraquat	10	daGal4	4.4	♀	4	40	19.8	40	40	14.9	21	40	16.5	40	0.0	0.0	
Paraquat	10	daGal4	4.4	♀	5	41	23.9	30	40	19.1	30	43	17.7	30	-7.2	0.0	0.2879
Paraquat	10	daGal4	4.4	♀	6	34	20.5	35	45	17.3	26	42	15.3	22	-11.3	-15.4	<b>0.0005</b>
Paraquat	10	daGal4	4.4	♂	1	39	29.7	43	40	18.2	31	40	30.8	56	3.5	30.2	0.6732
Paraquat	10	daGal4	4.4	♂	2	40	24.8	40	41	11.7	15	56	17.0	40	0.0	0.0	
Paraquat	10	daGal4	4.4	♂	3	41	17.9	26	40	17.5	30	41	28.7	70	60.0	133.3	<b>&lt;0.0001</b>
Paraquat	10	daGal4	4.4	♂	4	40	18.4	27	39	13.4	21	40	14.7	21	0.0	0.0	
Paraquat	10	daGal4	4.4	♂	5	40	17.0	26	45	13.3	18	40	22.9	42	34.4	61.5	<b>0.0005</b>
Paraquat	10	daGal4	4.4	♂	6	39	15.2	22	45	14.4	18	41	15.9	35	4.1	59.1	0.7465
Paraquat	10	DJ694	2.1	♀	1	40	25.3	52	40	17.0	27	40	14.6	22	-14.0	-18.5	<b>0.0141</b>
Paraquat	10	DJ694	2.1	♀	2	40	17.9	26	39	20.9	38	43	17.8	26	-0.5	0.0	<b>0.0195</b>
Paraquat	10	DJ694	2.1	♀	3	40	12.1	16	40	13.0	16	40	12.0	16	-0.8	0.0	<b>0.0411</b>
Paraquat	10	DJ694	2.1	♀	4	36	18.6	26	34	16.9	35	32	13.3	22	-21.7	-15.4	<b>0.0119</b>
Paraquat	10	DJ694	2.1	♀	5	40	14.2	20	40	13.6	24	40	10.8	12	-20.6	-40.0	<b>&lt;0.0001</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	10	DJ694	2.1	♀	6	41	19.3	22	38	16.1	26	40	12.8	18	-20.5	-18.2	<b>0.0002</b>
Paraquat	10	DJ694	2.1	♀	7	40	13.2	20	40	11.4	16	40	10.9	12	-4.4	-25.0	0.3596
Paraquat	10	DJ694	2.1	♂	1	40	24.5	47	40	29.6	57	40	21.5	42	-12.2	-10.6	<b>0.0006</b>
Paraquat	10	DJ694	2.1	♂	2	41	17.6	26	44	14.4	18	40	12.9	18	-10.2	0.0	<b>0.0131</b>
Paraquat	10	DJ694	2.1	♂	3	40	9.5	12	40	10.6	16	40	10.8	12	1.9	0.0	<b>0.0038</b>
Paraquat	10	DJ694	2.1	♂	4	40	15.4	22	38	12.4	18	27	10.9	14	-12.5	-22.2	0.0792
Paraquat	10	DJ694	2.1	♂	5	40	10.5	12	40	12.4	16	40	10.5	12	0.0	0.0	
Paraquat	10	DJ694	2.1	♂	6	40	15.9	30	42	13.3	18	40	13.3	18	0.0	0.0	
Paraquat	10	DJ694	2.1	♂	7	40	10.2	12	40	9.5	12	40	10.1	12	0.0	0.0	
Paraquat	10	DJ694	4.3	♀	1	40	20.8	31	40	16.8	31	40	15.9	31	-5.2	0.0	<b>0.0018</b>
Paraquat	10	DJ694	4.3	♀	2	40	18.2	33	40	12.4	16	40	13.8	16	0.0	0.0	
Paraquat	10	DJ694	4.3	♀	3	40	18.5	26	39	20.9	38	41	17.1	30	-7.4	0.0	<b>0.0024</b>
Paraquat	10	DJ694	4.3	♀	4	40	12.2	16	40	13.0	16	40	10.3	12	-16.0	-25.0	<b>&lt;0.0001</b>
Paraquat	10	DJ694	4.3	♀	5	40	15.8	25	40	13.2	16	40	15.2	20	0.0	0.0	
Paraquat	10	DJ694	4.3	♀	6	42	24.3	42	34	16.9	35	28	13.9	26	-18.1	-25.7	<b>0.0368</b>
Paraquat	10	DJ694	4.3	♀	7	40	12.8	16	40	13.6	24	30	11.3	12	-11.5	-25.0	<b>0.0011</b>
Paraquat	10	DJ694	4.3	♀	8	42	19.5	26	38	16.1	26	40	13.8	18	-14.2	-30.8	<b>0.0158</b>
Paraquat	10	DJ694	4.3	♀	9	40	13.5	20	40	11.4	16	40	10.9	12	-4.4	-25.0	0.3375
Paraquat	10	DJ694	4.3	♂	1	40	20.5	31	40	19.5	43	41	24.9	43	21.3	0.0	<b>0.0103</b>
Paraquat	10	DJ694	4.3	♂	2	40	13.4	20	40	15.1	20	40	13.9	20	0.0	0.0	
Paraquat	10	DJ694	4.3	♂	3	58	18.7	26	44	14.4	18	42	13.9	18	-3.2	0.0	0.5680
Paraquat	10	DJ694	4.3	♂	4	40	11.4	16	40	10.6	16	50	11.0	16	0.0	0.0	
Paraquat	10	DJ694	4.3	♂	5	40	14.0	20	40	14.2	20	40	12.9	20	-8.1	0.0	0.2208
Paraquat	10	DJ694	4.3	♂	6	42	16.0	35	38	12.4	18	33	15.3	38	0.0	8.6	
Paraquat	10	DJ694	4.3	♂	7	40	11.1	12	40	12.4	16	40	10.7	12	-3.6	0.0	<b>0.0021</b>
Paraquat	10	DJ694	4.3	♂	8	40	13.6	22	42	13.3	18	36	15.8	26	16.0	18.2	<b>0.0066</b>
Paraquat	10	DJ694	4.3	♂	9	40	11.3	16	40	9.5	12	40	11.0	12	0.0	0.0	
Paraquat	10	DJ694	9.1	♀	1	40	19.0	27	39	15.9	21	40	15.4	27	-3.4	0.0	<b>0.0008</b>
Paraquat	10	DJ694	9.1	♀	2	41	18.7	30	39	20.9	38	40	14.8	22	-20.8	-26.7	<b>0.0015</b>
Paraquat	10	DJ694	9.1	♀	3	40	13.0	20	40	13.0	16	40	11.5	12	-11.5	-25.0	<b>0.0009</b>
Paraquat	10	DJ694	9.1	♀	4	41	18.2	27	40	14.4	21	38	18.1	27	0.0	0.0	
Paraquat	10	DJ694	9.1	♀	5	42	22.8	35	34	16.9	35	37	12.1	18	-28.7	-48.6	<b>0.0003</b>
Paraquat	10	DJ694	9.1	♀	6	40	15.1	20	40	13.6	24	40	10.8	12	-20.6	-40.0	<b>&lt;0.0001</b>
Paraquat	10	DJ694	9.1	♀	7	42	21.0	30	38	16.1	26	39	11.2	14	-30.3	-46.2	<b>&lt;0.0001</b>
Paraquat	10	DJ694	9.1	♀	8	40	11.7	16	40	11.4	16	40	10.8	12	-5.3	-25.0	0.0642
Paraquat	10	DJ694	9.1	♂	1	40	15.6	21	40	15.0	21	39	13.2	15	-12.0	-28.6	<b>0.0011</b>
Paraquat	10	DJ694	9.1	♂	2	38	16.3	30	44	14.4	18	40	14.3	26	-0.4	0.0	0.0911
Paraquat	10	DJ694	9.1	♂	3	40	11.0	16	40	10.6	16	40	9.4	12	-11.3	-25.0	<b>0.0011</b>
Paraquat	10	DJ694	9.1	♂	4	40	17.7	27	39	14.7	21	40	11.8	15	-20.2	-28.6	<b>&lt;0.0001</b>
Paraquat	10	DJ694	9.1	♂	5	40	14.1	22	38	12.4	18	37	12.8	18	0.0	0.0	
Paraquat	10	DJ694	9.1	♂	6	40	10.8	12	40	12.4	16	40	11.0	12	0.0	0.0	
Paraquat	10	DJ694	9.1	♂	7	43	13.1	22	42	13.3	18	41	12.8	18	-1.8	0.0	0.4324
Paraquat	10	DJ694	9.1	♂	8	40	11.4	16	40	9.5	12	40	11.7	16	2.6	0.0	0.5051
Paraquat	10	DJ694	3.2	♀	1	38	19.1	40	35	19.7	35	40	19.6	40	0.0	0.0	
Paraquat	10	DJ694	3.2	♀	2	40	19.2	33	40	12.4	16	40	15.8	20	0.0	0.0	
Paraquat	10	DJ694	3.2	♀	3	35	17.1	30	39	20.9	38	43	19.7	42	0.0	10.5	
Paraquat	10	DJ694	3.2	♀	4	40	14.0	24	40	13.0	16	40	12.8	34	-1.5	41.7	0.3058
Paraquat	10	DJ694	3.2	♀	5	40	17.3	25	40	13.2	16	40	18.0	33	4.1	32.0	0.5341
Paraquat	10	DJ694	3.2	♀	6	40	22.2	42	34	16.9	35	38	20.6	61	0.0	45.2	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	10	DJ694	3.2	♀	7	30	14.7	24	40	13.6	24	40	12.3	20	-9.6	-16.7	<b>0.0287</b>
Paraquat	10	DJ694	3.2	♀	8	39	19.9	35	38	16.1	26	34	23.6	42	18.5	20.0	0.0589
Paraquat	10	DJ694	3.2	♀	9	40	15.6	34	40	11.4	16	40	13.0	20	0.0	0.0	
Paraquat	10	DJ694	3.2	♂	1	38	24.3	45	39	24.0	63	40	47.4	75	94.6	19.0	<b>&lt;0.0001</b>
Paraquat	10	DJ694	3.2	♂	2	40	18.3	25	40	15.1	20	40	25.1	48	37.0	92.0	<b>0.0016</b>
Paraquat	10	DJ694	3.2	♂	3	38	25.0	42	44	14.4	18	41	29.2	61	17.0	45.2	0.4007
Paraquat	10	DJ694	3.2	♂	4	40	14.0	20	40	10.6	16	40	16.1	39	15.2	95.0	<b>0.0009</b>
Paraquat	10	DJ694	3.2	♂	5	40	18.4	33	40	14.2	20	40	24.9	58	35.1	75.8	<b>0.0019</b>
Paraquat	10	DJ694	3.2	♂	6	38	24.3	61	38	12.4	18	40	34.8	61	43.1	0.0	<b>&lt;0.0001</b>
Paraquat	10	DJ694	3.2	♂	7	40	14.9	20	40	12.4	16	40	17.3	63	16.1	215.0	<b>0.0057</b>
Paraquat	10	DJ694	3.2	♂	8	39	29.8	61	42	13.3	18	44	27.1	70	0.0	14.8	
Paraquat	10	DJ694	3.2	♂	9	40	15.2	20	40	9.5	12	40	14.1	24	0.0	20.0	
Paraquat	10	DJ694	10.1	♀	1	29	17.3	22	24	17.0	17	39	17.4	22	0.2	0.0	0.1672
Paraquat	10	DJ694	10.1	♀	2	40	18.9	27	39	15.9	21	40	16.0	27	0.0	0.0	
Paraquat	10	DJ694	10.1	♀	3	36	22.9	38	39	20.9	38	40	16.7	35	-20.5	-7.9	<b>0.0011</b>
Paraquat	10	DJ694	10.1	♀	4	40	15.4	24	40	13.0	16	40	9.9	12	-23.8	-25.0	<b>&lt;0.0001</b>
Paraquat	10	DJ694	10.1	♀	5	40	18.8	27	40	14.4	21	40	18.8	40	0.4	48.1	<b>0.0004</b>
Paraquat	10	DJ694	10.1	♀	6	36	27.9	61	34	16.9	35	31	16.6	30	-2.0	-14.3	0.9156
Paraquat	10	DJ694	10.1	♀	7	40	17.6	34	40	13.6	24	40	12.3	20	-9.6	-16.7	0.0900
Paraquat	10	DJ694	10.1	♀	8	37	24.2	38	38	16.1	26	40	23.0	38	0.0	0.0	
Paraquat	10	DJ694	10.1	♀	9	40	15.3	20	40	11.4	16	40	11.7	20	0.0	0.0	
Paraquat	10	DJ694	10.1	♂	1	37	18.8	28	29	24.5	48	35	42.3	73	72.6	52.1	<b>0.0002</b>
Paraquat	10	DJ694	10.1	♂	2	40	25.9	40	40	15.0	21	40	22.9	40	0.0	0.0	
Paraquat	10	DJ694	10.1	♂	3	38	25.9	61	44	14.4	18	43	28.8	70	11.1	14.8	0.3863
Paraquat	10	DJ694	10.1	♂	4	40	13.3	20	40	10.6	16	40	12.7	34	0.0	70.0	
Paraquat	10	DJ694	10.1	♂	5	40	20.6	40	39	14.7	21	39	15.9	21	0.0	0.0	
Paraquat	10	DJ694	10.1	♂	6	37	25.4	42	38	12.4	18	32	19.6	42	0.0	0.0	
Paraquat	10	DJ694	10.1	♂	7	40	17.2	46	40	12.4	16	40	14.6	39	0.0	0.0	
Paraquat	10	DJ694	10.1	♂	8	39	24.7	42	42	13.3	18	42	34.0	70	37.9	66.7	<b>0.0053</b>
Paraquat	10	DJ694	10.1	♂	9	40	14.9	24	40	9.5	12	38	24.6	63	65.5	162.5	<b>&lt;0.0001</b>
Paraquat	10	DJ694	3.1	♀	1	40	12.5	22	40	15.9	26	40	14.4	22	0.0	0.0	
Paraquat	10	DJ694	3.1	♀	2	43	14.0	22	39	20.9	38	38	13.3	26	-5.3	0.0	0.2802
Paraquat	10	DJ694	3.1	♀	3	40	13.8	20	40	13.0	16	40	9.9	12	-23.8	-25.0	<b>&lt;0.0001</b>
Paraquat	10	DJ694	3.1	♀	4	40	17.9	30	34	16.9	35	35	12.6	18	-25.3	-40.0	<b>0.0036</b>
Paraquat	10	DJ694	3.1	♀	5	44	18.2	35	38	16.1	26	47	16.1	26	0.0	0.0	
Paraquat	10	DJ694	3.1	♂	1	33	23.5	34	38	30.0	61	39	42.1	79	40.2	29.5	<b>0.0110</b>
Paraquat	10	DJ694	3.1	♂	2	41	19.1	35	44	14.4	18	40	18.1	35	0.0	0.0	
Paraquat	10	DJ694	3.1	♂	3	40	12.4	20	40	10.6	16	40	12.4	16	0.0	0.0	
Paraquat	10	DJ694	3.1	♂	4	42	16.6	30	38	12.4	18	35	17.7	38	6.9	26.7	<b>0.0026</b>
Paraquat	10	DJ694	3.1	♂	5	42	15.1	26	42	13.3	18	33	17.5	35	15.5	34.6	<b>0.0002</b>
Paraquat	10	DJ694	4.4	♀	1	40	22.0	45	40	22.4	40	40	22.5	35	0.6	-12.5	0.5867
Paraquat	10	DJ694	4.4	♀	2	40	26.2	43	40	16.8	31	40	17.6	31	0.0	0.0	
Paraquat	10	DJ694	4.4	♀	3	40	19.8	27	39	15.9	21	40	15.5	21	-2.7	0.0	<b>0.0001</b>
Paraquat	10	DJ694	4.4	♀	4	40	17.0	26	39	20.9	38	41	16.0	30	-6.0	0.0	<b>0.0002</b>
Paraquat	10	DJ694	4.4	♀	5	40	13.0	20	40	13.0	16	40	12.7	20	-2.3	0.0	0.5633
Paraquat	10	DJ694	4.4	♀	6	40	19.8	40	40	14.4	21	40	15.9	21	0.0	0.0	
Paraquat	10	DJ694	4.4	♀	7	41	23.9	30	34	16.9	35	43	14.7	22	-13.4	-26.7	0.0999
Paraquat	10	DJ694	4.4	♀	8	40	16.0	20	40	13.6	24	40	11.7	16	-14.0	-20.0	<b>0.0036</b>
Paraquat	10	DJ694	4.4	♀	9	34	20.5	35	38	16.1	26	42	12.7	18	-21.2	-30.8	<b>0.0009</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	10	DJ694	4.4	♀	10	40	13.0	20	40	11.4	16	40	9.7	12	-14.9	-25.0	0.0013
Paraquat	10	DJ694	4.4	♂	1	40	25.9	55	40	19.5	30	45	23.8	35	0.0	0.0	0.5747
Paraquat	10	DJ694	4.4	♂	2	39	29.7	43	40	19.5	43	39	31.9	69	7.3	60.5	
Paraquat	10	DJ694	4.4	♂	3	40	24.8	40	40	15.0	21	40	20.5	40	0.0	0.0	
Paraquat	10	DJ694	4.4	♂	4	41	17.9	26	44	14.4	18	40	16.8	30	0.0	15.4	
Paraquat	10	DJ694	4.4	♂	5	40	13.2	20	40	10.6	16	40	11.9	16	0.0	0.0	
Paraquat	10	DJ694	4.4	♂	6	40	18.4	27	39	14.7	21	40	20.6	40	12.4	48.1	
Paraquat	10	DJ694	4.4	♂	7	40	17.0	26	38	12.4	18	40	17.1	30	0.6	15.4	
Paraquat	10	DJ694	4.4	♂	8	39	14.1	24	40	12.4	16	40	11.6	16	-6.5	0.0	
Paraquat	10	DJ694	4.4	♂	9	39	15.2	22	42	13.3	18	37	14.8	22	0.0	0.0	
Paraquat	10	DJ694	4.4	♂	10	40	12.4	20	40	9.5	12	40	12.3	20	0.0	0.0	
Paraquat	10	D42	2.1	♀	1	40	25.3	52	40	24.3	47	40	20.1	42	-17.0	-10.6	0.0236
Paraquat	10	D42	2.1	♀	2	40	17.9	26	40	24.5	61	40	14.6	26	-18.4	0.0	0.0014
Paraquat	10	D42	2.1	♀	3	36	18.6	26	41	36.7	61	40	22.4	30	0.0	0.0	0.0211
Paraquat	10	D42	2.1	♀	4	41	19.3	22	58	28.5	61	44	19.9	42	0.0	0.0	
Paraquat	10	D42	2.1	♂	1	40	24.5	47	40	25.9	52	40	21.3	37	-13.3	-21.3	
Paraquat	10	D42	2.1	♂	2	41	17.6	26	41	23.5	38	38	21.8	30	0.0	0.0	
Paraquat	10	D42	2.1	♂	3	40	15.4	22	40	19.9	26	40	17.4	26	0.0	0.0	
Paraquat	10	D42	2.1	♂	4	40	15.9	30	44	20.7	38	41	16.8	30	0.0	0.0	
Paraquat	10	D42	4.3	♀	1	40	20.8	31	39	22.9	43	40	19.5	31	-6.1	0.0	
Paraquat	10	D42	4.3	♀	2	40	18.2	33	40	14.5	25	40	14.5	16	-0.2	-36.0	
Paraquat	10	D42	4.3	♀	3	40	18.5	26	40	24.5	61	42	15.5	26	-16.5	0.0	
Paraquat	10	D42	4.3	♀	4	40	15.8	25	40	14.7	20	40	14.7	20	0.0	0.0	
Paraquat	10	D42	4.3	♀	5	42	24.3	42	41	36.7	61	44	24.0	38	-1.2	-9.5	
Paraquat	10	D42	4.3	♀	6	42	19.5	26	58	28.5	61	39	16.5	26	-15.6	0.0	
Paraquat	10	D42	4.3	♂	1	40	20.5	31	40	26.8	43	40	17.2	22	-16.1	-29.0	
Paraquat	10	D42	4.3	♂	2	40	13.4	20	40	13.2	20	40	10.7	16	-18.6	-20.0	
Paraquat	10	D42	4.3	♂	3	58	18.7	26	41	23.5	38	40	20.9	35	0.0	0.0	
Paraquat	10	D42	4.3	♂	4	40	14.0	20	40	14.4	72	40	10.5	20	-25.0	0.0	
Paraquat	10	D42	4.3	♂	5	42	16.0	35	40	19.9	26	42	22.2	61	11.5	74.3	
Paraquat	10	D42	4.3	♂	6	40	13.6	22	44	20.7	38	42	18.6	30	0.0	0.0	
Paraquat	10	D42	9.1	♀	1	40	19.0	27	40	21.8	27	40	17.5	27	-7.7	0.0	
Paraquat	10	D42	9.1	♀	2	41	18.7	30	40	24.5	61	41	12.7	18	-31.9	-40.0	
Paraquat	10	D42	9.1	♀	3	41	18.2	27	40	20.2	40	39	21.7	40	7.4	0.0	
Paraquat	10	D42	9.1	♀	4	42	22.8	35	41	36.7	61	38	21.4	35	-6.2	0.0	
Paraquat	10	D42	9.1	♀	5	42	21.0	30	58	28.5	61	45	18.8	35	-10.2	0.0	
Paraquat	10	D42	9.1	♂	1	40	15.6	21	40	19.0	40	39	14.3	21	-8.4	0.0	
Paraquat	10	D42	9.1	♂	2	38	16.3	30	41	23.5	38	39	15.0	22	-8.1	-26.7	
Paraquat	10	D42	9.1	♂	3	40	17.7	27	40	18.3	40	40	14.7	21	-17.0	-22.2	
Paraquat	10	D42	9.1	♂	4	40	14.1	22	40	19.9	26	39	18.0	30	0.0	15.4	
Paraquat	10	D42	9.1	♂	5	43	13.1	22	44	20.7	38	41	15.7	22	0.0	0.0	
Paraquat	10	D42	3.2	♀	1	38	19.1	40	38	20.3	40	40	18.5	40	-2.9	0.0	
Paraquat	10	D42	3.2	♀	2	40	19.2	33	40	14.5	25	40	17.1	33	0.0	0.0	
Paraquat	10	D42	3.2	♀	3	35	17.1	30	40	24.5	61	41	17.5	35	0.0	0.0	
Paraquat	10	D42	3.2	♀	4	40	17.3	25	40	14.7	20	40	18.9	33	9.6	32.0	
Paraquat	10	D42	3.2	♀	5	40	22.2	42	41	36.7	61	41	18.0	30	-18.9	-28.6	
Paraquat	10	D42	3.2	♀	6	39	19.9	35	58	28.5	61	36	19.3	30	-2.8	-14.3	
Paraquat	10	D42	3.2	♂	1	38	24.3	45	37	24.5	45	40	42.2	69	72.3	53.3	
Paraquat	10	D42	3.2	♂	2	40	18.3	25	40	13.2	20	40	22.9	58	25.1	132.0	



Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Paraquat	10	D42	3.2	♂	3	38	25.0	42	41	23.5	38	38	32.0	61	28.0	45.2	<b>0.0035</b>
Paraquat	10	D42	3.2	♂	4	40	18.4	33	40	14.4	72	40	21.8	38	18.2	0.0	<b>0.0002</b>
Paraquat	10	D42	3.2	♂	5	38	24.3	61	40	19.9	26	40	32.3	82	32.9	34.4	<b>0.0038</b>
Paraquat	10	D42	3.2	♂	6	39	29.8	61	44	20.7	38	45	33.6	70	12.6	14.8	0.1980
Paraquat	10	D42	10.1	♀	1	29	17.3	22	31	17.3	22	40	20.5	42	18.2	90.9	<b>0.0133</b>
Paraquat	10	D42	10.1	♀	2	40	18.9	27	40	21.8	27	39	19.8	27	0.0	0.0	
Paraquat	10	D42	10.1	♀	3	36	22.9	38	40	24.5	61	41	18.8	30	-18.1	-21.1	<b>0.0089</b>
Paraquat	10	D42	10.1	♀	4	40	18.8	27	40	20.2	40	40	19.1	40	0.0	0.0	
Paraquat	10	D42	10.1	♀	5	36	27.9	61	41	36.7	61	41	16.9	38	-39.4	-37.7	<b>&lt;0.0001</b>
Paraquat	10	D42	10.1	♀	6	37	24.2	38	58	28.5	61	36	17.0	38	-29.9	0.0	<b>0.0003</b>
Paraquat	10	D42	10.1	♂	1	37	18.8	28	36	19.9	42	35	55.1	100	177.4	138.1	<b>&lt;0.0001</b>
Paraquat	10	D42	10.1	♂	2	40	25.9	40	40	19.0	40	40	20.2	27	0.0	-32.5	
Paraquat	10	D42	10.1	♂	3	38	25.9	61	41	23.5	38	37	29.4	82	13.3	34.4	<b>0.0414</b>
Paraquat	10	D42	10.1	♂	4	40	20.6	40	40	18.3	40	40	17.5	27	-4.5	-32.5	<b>0.0066</b>
Paraquat	10	D42	10.1	♂	5	37	25.4	42	40	19.9	26	38	26.7	42	5.2	0.0	0.5106
Paraquat	10	D42	10.1	♂	6	39	24.7	42	44	20.7	38	49	26.7	61	8.4	45.2	<b>0.0115</b>
Paraquat	10	D42	3.1	♀	1	40	12.5	22	39	16.9	50	40	16.5	34	0.0	0.0	
Paraquat	10	D42	3.1	♀	2	43	14.0	22	40	24.5	61	43	13.8	22	-1.3	0.0	0.7175
Paraquat	10	D42	3.1	♀	3	40	17.9	30	41	36.7	61	28	12.9	26	-28.2	-13.3	<b>0.0011</b>
Paraquat	10	D42	3.1	♀	4	44	18.2	35	58	28.5	61	39	13.0	18	-28.8	-48.6	<b>&lt;0.0001</b>
Paraquat	10	D42	3.1	♂	1	33	23.5	34	37	35.9	79	38	42.3	79	17.7	0.0	0.2826
Paraquat	10	D42	3.1	♂	2	41	19.1	35	41	23.5	38	40	22.1	35	0.0	0.0	
Paraquat	10	D42	3.1	♂	3	42	16.6	30	40	19.9	26	37	18.4	38	0.0	26.7	
Paraquat	10	D42	3.1	♂	4	42	15.1	26	44	20.7	38	39	18.5	35	0.0	0.0	
Paraquat	10	D42	4.4	♀	1	40	22.0	45	40	24.8	40	40	21.6	30	-1.7	-25.0	<b>0.0119</b>
Paraquat	10	D42	4.4	♀	2	40	26.2	43	39	22.9	43	40	22.0	43	-3.8	0.0	<b>0.0465</b>
Paraquat	10	D42	4.4	♀	3	40	19.8	27	40	21.8	27	40	19.0	40	-3.9	48.1	<b>0.0138</b>
Paraquat	10	D42	4.4	♀	4	40	17.0	26	40	24.5	61	44	14.3	26	-16.0	0.0	<b>0.0218</b>
Paraquat	10	D42	4.4	♀	5	40	19.8	40	40	20.2	40	40	20.3	40	0.2	0.0	0.7853
Paraquat	10	D42	4.4	♀	6	41	23.9	30	41	36.7	61	28	11.1	14	-53.3	-53.3	<b>&lt;0.0001</b>
Paraquat	10	D42	4.4	♀	7	34	20.5	35	58	28.5	61	41	12.8	18	-37.4	-48.6	<b>&lt;0.0001</b>
Paraquat	10	D42	4.4	♂	1	40	25.9	55	40	29.1	55	40	28.4	60	0.0	9.1	
Paraquat	10	D42	4.4	♂	2	39	29.7	43	40	26.8	43	40	22.9	31	-14.6	-27.9	<b>0.0001</b>
Paraquat	10	D42	4.4	♂	3	40	24.8	40	40	19.0	40	40	17.9	40	-5.8	0.0	<b>0.0007</b>
Paraquat	10	D42	4.4	♂	4	41	17.9	26	41	23.5	38	40	15.6	26	-13.0	0.0	<b>0.0311</b>
Paraquat	10	D42	4.4	♂	5	40	18.4	27	40	18.3	40	39	16.9	27	-7.5	0.0	0.1100
Paraquat	10	D42	4.4	♂	6	40	17.0	26	40	19.9	26	35	16.1	30	-5.4	15.4	0.0763
Paraquat	10	D42	4.4	♂	7	39	15.2	22	44	20.7	38	43	22.3	35	7.7	0.0	0.6678
Starvation	3	daGal4	2.1	♀	1	40	54.3	73	40	54.6	68	40	56.9	73	4.2	0.0	0.2560
Starvation	3	daGal4	2.1	♀	2	40	28.7	40	40	28.6	40	40	31.2	40	8.7	0.0	0.0992
Starvation	3	daGal4	2.1	♀	3	40	29.5	34	40	29.7	38	40	31.1	42	4.7	10.5	0.0574
Starvation	3	daGal4	2.1	♀	4	40	29.0	40	40	23.3	32	40	32.1	48	10.8	20.0	<b>0.0412</b>
Starvation	3	daGal4	2.1	♀	5	40	29.2	34	40	32.5	42	41	35.2	42	8.2	0.0	0.2027
Starvation	3	daGal4	2.1	♀	6	40	30.2	34	41	32.0	38	40	34.1	38	6.7	0.0	0.1151
Starvation	3	daGal4	2.1	♂	1	40	37.9	53	40	38.4	53	40	36.7	48	-3.1	-9.4	0.2710
Starvation	3	daGal4	2.1	♂	2	40	17.0	20	40	16.5	20	40	17.5	20	3.2	0.0	0.1174
Starvation	3	daGal4	2.1	♂	3	40	21.6	26	40	21.9	26	41	23.8	46	8.5	76.9	<b>0.0355</b>
Starvation	3	daGal4	2.1	♂	4	40	17.1	20	40	18.5	27	40	17.1	27	0.0	0.0	
Starvation	3	daGal4	2.1	♂	5	40	22.8	30	40	23.1	30	40	23.6	30	2.2	0.0	0.2027

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	3	daGal4	2.1	♂	6	40	23.4	30	40	24.3	34	40	24.3	30	0.0	0.0	
Starvation	3	daGal4	4.3	♀	1	40	28.5	34	40	29.7	38	40	32.7	38	10.1	0.0	<b>0.0034</b>
Starvation	3	daGal4	4.3	♀	2	40	29.6	38	40	32.5	42	40	33.9	38	4.3	0.0	<b>0.0004</b>
Starvation	3	daGal4	4.3	♀	3	40	30.5	42	41	32.0	38	30	32.9	42	3.1	0.0	<b>0.0306</b>
Starvation	3	daGal4	4.3	♂	1	40	23.6	26	40	21.9	26	40	25.5	30	8.1	15.4	<b>0.0123</b>
Starvation	3	daGal4	4.3	♂	2	40	22.2	26	40	23.1	30	40	22.8	30	0.0	0.0	
Starvation	3	daGal4	4.3	♂	3	40	22.8	30	40	24.3	34	40	24.2	34	0.0	0.0	
Starvation	3	daGal4	9.1	♀	1	41	30.7	41	39	29.0	41	40	28.1	41	-3.3	0.0	0.3129
Starvation	3	daGal4	9.1	♀	2	40	30.2	34	40	29.7	38	40	30.3	34	0.3	0.0	0.6507
Starvation	3	daGal4	9.1	♀	3	40	30.9	32	38	30.1	41	39	28.6	41	-5.2	0.0	0.4383
Starvation	3	daGal4	9.1	♀	4	40	33.5	42	40	32.5	42	40	29.9	38	-8.0	-9.5	<b>0.0007</b>
Starvation	3	daGal4	9.1	♀	5	40	32.8	42	41	32.0	38	41	30.7	38	-4.0	0.0	<b>0.0115</b>
Starvation	3	daGal4	9.1	♂	1	40	13.8	16	39	14.4	23	39	16.3	23	13.2	0.0	<b>0.0049</b>
Starvation	3	daGal4	9.1	♂	2	40	23.7	30	40	21.9	26	40	20.2	22	-7.8	-15.4	<b>0.0028</b>
Starvation	3	daGal4	9.1	♂	3	40	15.0	23	38	14.4	23	39	15.6	23	4.1	0.0	0.2116
Starvation	3	daGal4	9.1	♂	4	40	23.7	30	40	23.1	30	40	21.2	22	-8.2	-26.7	<b>0.0002</b>
Starvation	3	daGal4	9.1	♂	5	40	25.1	30	40	24.3	34	40	21.2	26	-12.8	-13.3	<b>&lt;0.0001</b>
Starvation	3	daGal4	3.2	♀	1	35	34.0	52	40	55.3	72	40	56.4	77	2.0	6.9	0.2976
Starvation	3	daGal4	3.2	♀	2	42	32.7	42	40	29.7	38	41	32.6	42	0.0	0.0	
Starvation	3	daGal4	3.2	♀	3	40	32.5	38	40	32.5	42	40	37.0	46	13.8	9.5	<b>0.0014</b>
Starvation	3	daGal4	3.2	♀	4	40	35.1	42	41	32.0	38	41	37.9	46	8.0	9.5	<b>0.0054</b>
Starvation	3	daGal4	3.2	♂	1	40	27.7	37	40	30.6	42	40	38.0	52	24.1	23.8	<b>&lt;0.0001</b>
Starvation	3	daGal4	3.2	♂	2	40	23.9	30	40	21.9	26	40	23.3	30	0.0	0.0	
Starvation	3	daGal4	3.2	♂	3	40	24.0	38	40	23.1	30	40	25.0	30	4.2	0.0	<b>0.0186</b>
Starvation	3	daGal4	3.2	♂	4	40	25.0	34	40	24.3	34	20	25.2	30	0.8	-11.8	0.4527
Starvation	3	daGal4	10.1	♀	1	40	68.7	84	40	58.1	72	40	76.6	120	11.5	42.9	<b>0.0146</b>
Starvation	3	daGal4	10.1	♀	2	40	30.5	41	39	29.0	41	40	34.3	41	12.4	0.0	<b>0.0046</b>
Starvation	3	daGal4	10.1	♀	3	40	33.0	38	40	29.7	38	39	35.2	46	6.8	21.1	<b>0.0042</b>
Starvation	3	daGal4	10.1	♀	4	41	36.7	50	40	32.5	42	38	38.5	50	4.9	0.0	0.1078
Starvation	3	daGal4	10.1	♀	5	40	37.9	50	41	32.0	38	41	39.3	50	3.8	0.0	0.0693
Starvation	3	daGal4	10.1	♂	1	40	54.9	84	40	44.8	59	40	59.6	84	8.6	0.0	0.1305
Starvation	3	daGal4	10.1	♂	2	40	18.0	23	39	14.4	23	39	19.5	23	8.4	0.0	0.1063
Starvation	3	daGal4	10.1	♂	3	40	24.7	30	40	21.9	26	40	27.4	34	10.9	13.3	<b>0.0017</b>
Starvation	3	daGal4	10.1	♂	4	40	24.0	30	40	23.1	30	39	31.2	42	30.1	40.0	<b>&lt;0.0001</b>
Starvation	3	daGal4	10.1	♂	5	40	26.0	34	40	24.3	34	41	28.4	42	9.4	23.5	<b>0.0002</b>
Starvation	3	daGal4	3.1	♀	1	40	43.8	54	40	41.1	58	40	47.4	58	8.3	0.0	<b>0.0014</b>
Starvation	3	daGal4	3.1	♀	2	40	26.7	32	40	28.6	40	40	27.1	40	0.0	0.0	
Starvation	3	daGal4	3.1	♀	3	40	27.8	34	40	29.7	38	41	32.1	38	8.2	0.0	<b>0.0040</b>
Starvation	3	daGal4	3.1	♀	4	40	23.4	32	40	23.3	32	40	23.4	40	0.0	25.0	
Starvation	3	daGal4	3.1	♀	5	40	29.8	34	40	32.5	42	40	34.5	42	6.2	0.0	0.3871
Starvation	3	daGal4	3.1	♀	6	40	31.4	34	41	32.0	38	38	34.0	46	6.4	21.1	<b>0.0006</b>
Starvation	3	daGal4	3.1	♂	1	40	28.8	38	39	29.7	38	40	28.0	34	-2.6	-10.5	<b>0.0351</b>
Starvation	3	daGal4	3.1	♂	2	40	15.9	20	40	16.5	20	40	16.2	20	0.0	0.0	
Starvation	3	daGal4	3.1	♂	3	40	21.4	22	40	21.9	26	40	23.3	30	6.4	15.4	<b>0.0006</b>
Starvation	3	daGal4	3.1	♂	4	40	15.3	20	40	18.5	27	40	16.5	20	0.0	0.0	
Starvation	3	daGal4	3.1	♂	5	40	23.0	30	40	23.1	30	40	24.2	30	4.8	0.0	0.0856
Starvation	3	daGal4	3.1	♂	6	40	22.7	26	40	24.3	34	40	22.4	26	-1.3	0.0	<b>0.0040</b>
Starvation	3	daGal4	4.4	♀	1	40	64.8	84	40	62.8	84	39	67.5	84	4.1	0.0	0.1475
Starvation	3	daGal4	4.4	♀	2	40	30.3	32	39	29.0	41	40	32.3	41	6.5	0.0	0.0642

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	3	daGal4	4.4	♀	3	40	29.9	34	40	29.7	38	41	32.6	42	9.1	10.5	<b>0.0032</b>
Starvation	3	daGal4	4.4	♀	4	40	30.9	32	38	30.1	41	41	41.0	48	33.0	17.1	<b>&lt;0.0001</b>
Starvation	3	daGal4	4.4	♀	5	41	34.7	42	40	32.5	42	40	34.8	42	0.3	0.0	0.1886
Starvation	3	daGal4	4.4	♀	6	40	34.7	42	41	32.0	38	40	35.7	42	2.9	0.0	<b>0.0012</b>
Starvation	3	daGal4	4.4	♂	1	40	47.5	59	40	49.7	59	37	51.9	72	4.4	22.0	<b>0.0443</b>
Starvation	3	daGal4	4.4	♂	2	40	15.4	23	39	14.4	23	44	15.2	23	0.0	0.0	
Starvation	3	daGal4	4.4	♂	3	40	21.8	26	40	21.9	26	40	22.6	30	3.2	15.4	0.0908
Starvation	3	daGal4	4.4	♂	4	40	15.5	23	38	14.4	23	41	21.0	32	35.3	39.1	<b>&lt;0.0001</b>
Starvation	3	daGal4	4.4	♂	5	40	23.1	30	40	23.1	30	39	25.2	30	9.0	0.0	<b>0.0053</b>
Starvation	3	daGal4	4.4	♂	6	41	23.3	26	40	24.3	34	40	26.1	34	7.4	0.0	<b>0.0010</b>
Starvation	3	DJ694	2.1	♀	1	40	44.3	63	40	34.6	40	40	36.4	45	0.0	0.0	
Starvation	3	DJ694	2.1	♀	2	40	54.3	73	40	54.9	68	40	52.9	63	-2.5	-7.4	0.1174
Starvation	3	DJ694	2.1	♀	3	40	28.7	40	40	24.8	32	40	27.5	32	0.0	0.0	
Starvation	3	DJ694	2.1	♀	4	41	26.0	34	41	25.6	34	40	22.6	34	-11.9	0.0	<b>0.0019</b>
Starvation	3	DJ694	2.1	♀	5	40	29.0	40	40	22.5	32	40	27.2	40	0.0	0.0	
Starvation	3	DJ694	2.1	♀	6	40	26.4	34	42	28.0	38	42	26.4	34	0.0	0.0	
Starvation	3	DJ694	2.1	♀	7	28	27.6	34	40	29.1	34	40	27.0	34	-2.2	0.0	0.0515
Starvation	3	DJ694	2.1	♂	1	40	30.2	45	40	24.0	35	40	29.6	45	0.0	0.0	
Starvation	3	DJ694	2.1	♂	2	40	37.9	53	39	34.0	43	39	33.5	43	-1.5	0.0	<b>0.0004</b>
Starvation	3	DJ694	2.1	♂	3	40	17.0	20	40	16.7	20	40	15.9	20	-4.9	0.0	0.3501
Starvation	3	DJ694	2.1	♂	4	40	20.8	34	40	18.5	26	39	16.8	22	-9.0	-15.4	<b>0.0254</b>
Starvation	3	DJ694	2.1	♂	5	40	17.1	20	40	15.6	27	40	17.1	20	0.0	0.0	
Starvation	3	DJ694	2.1	♂	6	40	20.8	34	41	18.9	22	38	16.0	22	-15.4	0.0	<b>0.0001</b>
Starvation	3	DJ694	2.1	♂	7	39	20.1	34	40	17.9	22	37	17.6	22	-1.4	0.0	<b>0.0189</b>
Starvation	3	DJ694	4.3	♀	1	40	25.7	34	41	25.6	34	39	23.1	34	-9.8	0.0	<b>0.0118</b>
Starvation	3	DJ694	4.3	♀	2	42	25.7	34	42	28.0	38	40	22.0	26	-14.5	-23.5	<b>0.0001</b>
Starvation	3	DJ694	4.3	♀	3	40	28.1	34	40	29.1	34	40	24.7	34	-12.1	0.0	<b>0.0041</b>
Starvation	3	DJ694	4.3	♂	1	39	18.6	26	40	18.5	26	41	15.0	22	-18.7	-15.4	<b>&lt;0.0001</b>
Starvation	3	DJ694	4.3	♂	2	40	19.2	26	41	18.9	22	40	15.2	22	-19.5	0.0	<b>&lt;0.0001</b>
Starvation	3	DJ694	4.3	♂	3	41	18.6	26	40	17.9	22	37	16.1	22	-10.1	0.0	<b>0.0041</b>
Starvation	3	DJ694	9.1	♀	1	41	30.7	41	39	30.0	32	40	31.4	32	2.3	0.0	<b>0.0437</b>
Starvation	3	DJ694	9.1	♀	2	40	27.9	34	41	25.6	34	39	27.1	34	0.0	0.0	
Starvation	3	DJ694	9.1	♀	3	40	30.9	32	40	27.6	32	40	32.0	41	3.6	28.1	0.1301
Starvation	3	DJ694	9.1	♀	4	49	27.8	34	42	28.0	38	40	23.1	34	-16.9	0.0	<b>&lt;0.0001</b>
Starvation	3	DJ694	9.1	♀	5	41	29.1	34	40	29.1	34	40	24.1	34	-17.2	0.0	<b>&lt;0.0001</b>
Starvation	3	DJ694	9.1	♂	1	40	13.8	16	39	14.3	23	40	13.4	16	-2.7	0.0	0.1750
Starvation	3	DJ694	9.1	♂	2	40	18.9	26	40	18.5	26	40	14.3	22	-22.4	-15.4	<b>&lt;0.0001</b>
Starvation	3	DJ694	9.1	♂	3	40	15.0	23	38	13.6	16	40	14.1	23	0.0	0.0	
Starvation	3	DJ694	9.1	♂	4	50	20.0	34	41	18.9	22	41	14.6	18	-22.6	-18.2	<b>&lt;0.0001</b>
Starvation	3	DJ694	9.1	♂	5	40	19.3	26	40	17.9	22	37	14.2	18	-20.5	-18.2	<b>&lt;0.0001</b>
Starvation	3	DJ694	3.2	♀	1	35	34.0	52	40	51.9	62	40	42.0	57	0.0	0.0	
Starvation	3	DJ694	3.2	♀	2	39	26.5	34	41	25.6	34	41	28.1	34	6.3	0.0	<b>0.0265</b>
Starvation	3	DJ694	3.2	♀	3	39	30.1	38	42	28.0	38	40	28.9	38	0.0	0.0	
Starvation	3	DJ694	3.2	♀	4	37	27.8	38	40	29.1	34	37	26.9	38	-3.5	0.0	0.0638
Starvation	3	DJ694	3.2	♂	1	40	27.7	37	40	31.1	42	40	30.0	37	0.0	0.0	
Starvation	3	DJ694	3.2	♂	2	36	21.3	34	40	18.5	26	39	18.2	34	-1.5	0.0	<b>0.0349</b>
Starvation	3	DJ694	3.2	♂	3	40	21.4	34	41	18.9	22	41	17.7	34	-6.2	0.0	<b>0.0153</b>
Starvation	3	DJ694	3.2	♂	4	40	21.2	34	40	17.9	22	41	16.9	26	-5.4	0.0	<b>0.0026</b>
Starvation	3	DJ694	10.1	♀	1	40	68.7	84	37	49.9	72	40	63.7	84	0.0	0.0	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	3	DJ694	10.1	♀	2	40	30.5	41	39	30.0	32	40	30.7	41	0.7	0.0	0.4364
Starvation	3	DJ694	10.1	♀	3	39	27.7	34	41	25.6	34	41	30.1	38	8.6	11.8	<b>0.0002</b>
Starvation	3	DJ694	10.1	♀	4	35	29.2	34	42	28.0	38	20	27.2	34	-2.9	0.0	0.0906
Starvation	3	DJ694	10.1	♀	5	25	30.6	38	40	29.1	34	39	26.2	38	-10.1	0.0	<b>0.0090</b>
Starvation	3	DJ694	10.1	♂	1	40	54.9	84	40	36.9	47	40	48.7	72	0.0	0.0	
Starvation	3	DJ694	10.1	♂	2	40	18.0	23	39	14.3	23	40	15.0	16	0.0	-30.4	
Starvation	3	DJ694	10.1	♂	3	37	21.4	34	40	18.5	26	42	23.5	34	9.9	0.0	0.0610
Starvation	3	DJ694	10.1	♂	4	41	20.0	34	41	18.9	22	40	20.7	26	3.2	0.0	<b>0.0134</b>
Starvation	3	DJ694	10.1	♂	5	41	23.3	34	40	17.9	22	42	22.2	34	0.0	0.0	
Starvation	3	DJ694	3.1	♀	1	40	32.2	51	40	34.6	40	40	32.0	57	-0.8	11.8	0.2482
Starvation	3	DJ694	3.1	♀	2	40	43.8	54	40	43.1	50	40	40.1	46	-7.0	-8.0	<b>0.0004</b>
Starvation	3	DJ694	3.1	♀	3	40	26.7	32	40	24.8	32	40	24.6	32	-0.8	0.0	<b>0.0166</b>
Starvation	3	DJ694	3.1	♀	4	39	30.4	34	41	25.6	34	35	23.5	34	-8.2	0.0	<b>0.0226</b>
Starvation	3	DJ694	3.1	♀	5	40	23.4	32	40	22.5	32	40	22.9	27	0.0	-15.6	
Starvation	3	DJ694	3.1	♀	6	44	31.2	38	42	28.0	38	40	23.3	26	-16.8	-31.6	<b>&lt;0.0001</b>
Starvation	3	DJ694	3.1	♀	7	39	29.6	34	40	29.1	34	38	25.8	34	-11.5	0.0	<b>0.0009</b>
Starvation	3	DJ694	3.1	♂	1	40	26.8	45	40	24.0	35	40	20.3	30	-15.2	-14.3	<b>0.0025</b>
Starvation	3	DJ694	3.1	♂	2	40	28.8	38	40	29.0	38	40	25.4	34	-11.7	-10.5	<b>0.0008</b>
Starvation	3	DJ694	3.1	♂	3	40	15.9	20	40	16.7	20	40	15.4	20	-3.5	0.0	0.1466
Starvation	3	DJ694	3.1	♂	4	40	19.3	22	40	18.5	26	37	16.8	22	-8.7	0.0	<b>0.0002</b>
Starvation	3	DJ694	3.1	♂	5	40	15.3	20	40	15.6	27	40	14.4	17	-6.0	-15.0	<b>0.0377</b>
Starvation	3	DJ694	3.1	♂	6	42	19.4	22	41	18.9	22	40	18.3	26	-2.9	18.2	0.1782
Starvation	3	DJ694	3.1	♂	7	40	19.3	26	40	17.9	22	41	17.3	22	-2.8	0.0	<b>0.0056</b>
Starvation	3	DJ694	4.4	♀	1	40	35.8	43	40	29.6	34	40	32.1	43	0.0	0.0	
Starvation	3	DJ694	4.4	♀	2	40	64.8	84	40	61.6	84	40	53.9	72	-12.5	-14.3	<b>0.0009</b>
Starvation	3	DJ694	4.4	♀	3	40	30.3	32	39	30.0	32	40	31.8	41	4.9	28.1	<b>0.0388</b>
Starvation	3	DJ694	4.4	♀	4	39	27.5	34	41	25.6	34	41	22.6	34	-11.7	0.0	<b>0.0019</b>
Starvation	3	DJ694	4.4	♀	5	40	30.9	32	40	27.6	32	39	30.4	32	0.0	0.0	
Starvation	3	DJ694	4.4	♀	6	48	30.0	34	42	28.0	38	41	24.1	34	-13.8	0.0	<b>0.0003</b>
Starvation	3	DJ694	4.4	♀	7	38	29.9	34	40	29.1	34	37	24.8	34	-14.8	0.0	<b>0.0002</b>
Starvation	3	DJ694	4.4	♂	1	40	21.3	24	40	26.4	29	40	20.3	29	-4.8	0.0	0.0786
Starvation	3	DJ694	4.4	♂	2	40	47.5	59	40	44.1	59	40	40.4	46	-8.3	-22.0	<b>0.0001</b>
Starvation	3	DJ694	4.4	♂	3	40	15.4	23	39	14.3	23	40	13.7	23	-4.1	0.0	<b>0.0145</b>
Starvation	3	DJ694	4.4	♂	4	39	18.9	26	40	18.5	26	40	15.8	22	-14.4	-15.4	<b>0.0010</b>
Starvation	3	DJ694	4.4	♂	5	40	15.5	23	38	13.6	16	40	14.2	23	0.0	0.0	
Starvation	3	DJ694	4.4	♂	6	39	17.5	22	41	18.9	22	42	16.0	26	-8.8	18.2	<b>0.0004</b>
Starvation	3	DJ694	4.4	♂	7	39	18.9	26	40	17.9	22	40	14.3	22	-19.7	0.0	<b>&lt;0.0001</b>
Starvation	3	D42	2.1	♀	1	40	44.3	63	40	38.0	45	40	32.0	51	-15.7	0.0	<b>0.0002</b>
Starvation	3	D42	2.1	♀	2	40	54.3	73	40	53.1	63	50	55.7	63	2.7	0.0	0.2767
Starvation	3	D42	2.1	♀	3	40	28.7	40	40	24.9	32	40	33.9	40	18.2	0.0	<b>0.0053</b>
Starvation	3	D42	2.1	♀	4	40	36.3	46	40	39.0	50	42	37.1	46	0.0	0.0	
Starvation	3	D42	2.1	♀	5	40	29.0	40	40	22.5	32	40	33.8	40	16.8	0.0	<b>0.0008</b>
Starvation	3	D42	2.1	♀	6	40	37.0	42	40	39.9	50	40	38.3	46	0.0	0.0	
Starvation	3	D42	2.1	♀	7	40	36.7	42	42	39.5	50	40	40.1	50	1.5	0.0	<b>0.0005</b>
Starvation	3	D42	2.1	♂	1	40	30.2	45	40	27.6	35	40	26.5	35	-4.1	0.0	<b>0.0014</b>
Starvation	3	D42	2.1	♂	2	40	37.9	53	40	36.4	48	40	36.6	48	0.0	0.0	
Starvation	3	D42	2.1	♂	3	40	17.0	20	40	17.1	20	40	18.2	20	6.3	0.0	<b>0.0011</b>
Starvation	3	D42	2.1	♂	4	40	26.7	34	40	27.7	42	40	28.3	38	2.2	0.0	0.0840
Starvation	3	D42	2.1	♂	5	40	17.1	20	40	14.0	17	40	18.9	20	10.4	0.0	<b>&lt;0.0001</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	3	D42	2.1	♂	6	40	28.9	38	40	27.9	38	40	27.7	34	-0.7	-10.5	0.3159
Starvation	3	D42	2.1	♂	7	40	26.7	34	40	28.3	38	40	26.4	38	-1.1	0.0	0.1402
Starvation	3	D42	4.3	♀	1	40	36.1	42	40	39.0	50	40	39.2	46	0.5	0.0	<b>0.0005</b>
Starvation	3	D42	4.3	♀	2	40	37.8	46	40	39.9	50	40	38.6	46	0.0	0.0	
Starvation	3	D42	4.3	♀	3	43	36.0	42	42	39.5	50	40	38.0	46	0.0	0.0	
Starvation	3	D42	4.3	♂	1	40	30.2	42	40	27.7	42	40	28.4	34	0.0	-19.0	
Starvation	3	D42	4.3	♂	2	41	28.0	34	40	27.9	38	40	28.2	34	0.9	0.0	0.6510
Starvation	3	D42	4.3	♂	3	40	27.1	38	40	28.3	38	40	23.8	30	-12.2	-21.1	<b>0.0002</b>
Starvation	3	D42	9.1	♀	1	41	30.7	41	40	31.8	41	43	32.2	41	1.2	0.0	0.0692
Starvation	3	D42	9.1	♀	2	40	38.0	42	40	39.0	50	40	36.0	46	-5.3	0.0	<b>0.0165</b>
Starvation	3	D42	9.1	♀	3	40	30.9	32	38	30.3	41	41	31.0	32	0.6	0.0	0.3354
Starvation	3	D42	9.1	♀	4	42	39.4	46	40	39.9	50	40	34.9	42	-11.5	-8.7	<b>&lt;0.0001</b>
Starvation	3	D42	9.1	♀	5	40	39.2	50	42	39.5	50	40	38.3	42	-2.3	-16.0	0.1892
Starvation	3	D42	9.1	♂	1	40	13.8	16	40	12.8	16	44	14.1	23	2.8	43.8	0.0564
Starvation	3	D42	9.1	♂	2	40	29.8	42	40	27.7	42	40	24.9	34	-10.1	-19.0	<b>0.0109</b>
Starvation	3	D42	9.1	♂	3	40	15.0	23	40	13.3	16	43	13.7	16	0.0	0.0	
Starvation	3	D42	9.1	♂	4	40	27.1	38	40	27.9	38	40	24.5	34	-9.6	-10.5	<b>0.0047</b>
Starvation	3	D42	9.1	♂	5	40	28.6	42	40	28.3	38	40	23.5	30	-17.0	-21.1	<b>&lt;0.0001</b>
Starvation	3	D42	3.2	♀	1	35	34.0	52	42	51.5	67	40	51.4	62	0.0	0.0	
Starvation	3	D42	3.2	♀	2	40	40.5	50	40	39.0	50	40	41.5	50	2.5	0.0	<b>0.0279</b>
Starvation	3	D42	3.2	♀	3	40	41.1	50	40	39.9	50	40	41.0	50	0.0	0.0	
Starvation	3	D42	3.2	♀	4	40	41.3	50	42	39.5	50	40	42.1	50	1.9	0.0	0.1144
Starvation	3	D42	3.2	♂	1	40	27.7	37	40	31.1	37	40	31.9	47	2.4	27.0	<b>0.0137</b>
Starvation	3	D42	3.2	♂	2	40	28.9	38	40	27.7	42	40	29.1	38	0.7	0.0	0.3563
Starvation	3	D42	3.2	♂	3	40	30.3	42	40	27.9	38	40	28.6	38	0.0	0.0	
Starvation	3	D42	3.2	♂	4	40	33.2	42	40	28.3	38	40	29.2	38	0.0	0.0	
Starvation	3	D42	10.1	♀	1	40	68.7	84	40	54.0	84	40	72.7	96	5.8	14.3	0.1433
Starvation	3	D42	10.1	♀	2	40	30.5	41	40	31.8	41	39	34.5	41	8.4	0.0	<b>0.0035</b>
Starvation	3	D42	10.1	♀	3	40	41.8	46	40	39.0	50	40	39.2	46	0.0	0.0	
Starvation	3	D42	10.1	♀	4	39	45.5	59	40	39.9	50	40	40.6	46	0.0	-8.0	
Starvation	3	D42	10.1	♀	5	40	42.5	50	42	39.5	50	41	41.4	50	0.0	0.0	
Starvation	3	D42	10.1	♂	1	40	54.9	84	40	46.2	59	40	53.7	72	0.0	0.0	
Starvation	3	D42	10.1	♂	2	40	18.0	23	40	12.8	16	40	17.4	23	0.0	0.0	
Starvation	3	D42	10.1	♂	3	40	31.7	42	40	27.7	42	40	33.1	42	4.4	0.0	<b>0.0002</b>
Starvation	3	D42	10.1	♂	4	41	33.6	42	40	27.9	38	42	34.7	42	3.1	0.0	0.4653
Starvation	3	D42	10.1	♂	5	40	30.5	38	40	28.3	38	40	34.5	42	13.1	10.5	<b>0.0005</b>
Starvation	3	D42	3.1	♀	1	40	32.2	51	40	38.0	45	40	36.5	57	0.0	11.8	0.0982
Starvation	3	D42	3.1	♀	2	40	43.8	54	37	41.1	50	40	44.7	54	2.1	0.0	<b>0.0012</b>
Starvation	3	D42	3.1	♀	3	40	26.7	32	40	24.9	32	40	29.2	40	9.4	25.0	<b>0.0003</b>
Starvation	3	D42	3.1	♀	4	40	36.8	42	40	39.0	50	42	37.1	46	0.0	0.0	
Starvation	3	D42	3.1	♀	5	40	23.4	32	40	22.5	32	40	29.2	32	24.6	0.0	<b>&lt;0.0001</b>
Starvation	3	D42	3.1	♀	6	40	38.4	46	40	39.9	50	42	37.2	46	-3.0	0.0	<b>0.0213</b>
Starvation	3	D42	3.1	♀	7	40	37.7	46	42	39.5	50	40	37.5	42	-0.5	-8.7	0.0568
Starvation	3	D42	3.1	♂	1	40	26.8	45	40	27.6	35	40	25.9	35	-3.5	0.0	0.0850
Starvation	3	D42	3.1	♂	2	40	28.8	38	40	25.0	34	40	27.3	31	0.0	-8.8	
Starvation	3	D42	3.1	♂	3	40	15.9	20	40	17.1	20	40	18.7	27	8.9	35.0	<b>0.0001</b>
Starvation	3	D42	3.1	♂	4	40	24.7	34	40	27.7	42	40	26.9	34	0.0	0.0	
Starvation	3	D42	3.1	♂	5	40	15.3	20	40	14.0	17	40	18.5	27	20.8	35.0	<b>&lt;0.0001</b>
Starvation	3	D42	3.1	♂	6	40	25.9	34	40	27.9	38	40	26.8	34	0.0	0.0	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	3	D42	3.1	♂	7	40	27.0	34	40	28.3	38	40	25.6	34	-5.2	0.0	<b>0.0147</b>
Starvation	3	D42	4.4	♀	1	40	35.8	43	40	29.7	34	40	31.3	34	0.0	0.0	
Starvation	3	D42	4.4	♀	2	40	64.8	84	39	72.6	84	40	68.8	84	0.0	0.0	
Starvation	3	D42	4.4	♀	3	40	30.3	32	40	31.8	41	42	33.9	48	6.6	17.1	<b>0.0015</b>
Starvation	3	D42	4.4	♀	4	40	39.5	50	40	39.0	50	40	37.4	42	-4.1	-16.0	0.1325
Starvation	3	D42	4.4	♀	5	40	30.9	32	38	30.3	41	41	39.2	41	26.9	0.0	<b>&lt;0.0001</b>
Starvation	3	D42	4.4	♀	6	40	41.4	46	40	39.9	50	40	36.1	42	-9.5	-8.7	<b>0.0015</b>
Starvation	3	D42	4.4	♀	7	40	39.2	50	42	39.5	50	40	34.4	42	-12.2	-16.0	<b>&lt;0.0001</b>
Starvation	3	D42	4.4	♂	1	40	21.3	24	40	22.4	29	40	23.5	29	5.0	0.0	<b>0.0033</b>
Starvation	3	D42	4.4	♂	2	40	47.5	59	34	44.5	59	40	47.2	72	0.0	22.0	
Starvation	3	D42	4.4	♂	3	40	15.4	23	40	12.8	16	40	15.8	23	2.6	0.0	0.6505
Starvation	3	D42	4.4	♂	4	40	27.0	38	40	27.7	42	40	27.8	34	0.4	-10.5	0.4817
Starvation	3	D42	4.4	♂	5	40	15.5	23	40	13.3	16	41	22.7	32	46.2	39.1	<b>&lt;0.0001</b>
Starvation	3	D42	4.4	♂	6	40	27.9	38	40	27.9	38	40	26.5	38	-5.0	0.0	0.3560
Starvation	3	D42	4.4	♂	7	40	27.6	34	40	28.3	38	40	25.5	38	-7.6	0.0	<b>0.0402</b>
Starvation	10	daGal4	2.1	♀	1	40	49.5	63	40	48.8	63	40	46.2	58	-5.4	-7.9	<b>0.0208</b>
Starvation	10	daGal4	2.1	♀	2	40	31.0	38	40	33.3	38	41	29.2	38	-5.7	0.0	0.0995
Starvation	10	daGal4	2.1	♀	3	40	29.3	34	41	36.3	42	43	31.2	38	0.0	0.0	
Starvation	10	daGal4	2.1	♀	4	40	30.2	34	40	35.5	42	40	31.2	38	0.0	0.0	
Starvation	10	daGal4	2.1	♂	1	39	27.9	38	36	28.3	33	40	27.5	38	-1.8	0.0	0.4315
Starvation	10	daGal4	2.1	♂	2	41	15.7	18	38	16.5	18	40	15.8	22	0.0	22.2	
Starvation	10	daGal4	2.1	♂	3	40	17.9	22	39	17.3	18	40	16.3	18	-5.7	0.0	<b>0.0012</b>
Starvation	10	daGal4	2.1	♂	4	40	16.7	18	39	17.6	22	40	16.0	22	-4.2	0.0	<b>0.0114</b>
Starvation	10	daGal4	4.3	♀	1	40	48.6	59	38	51.1	72	40	60.8	84	18.9	16.7	<b>0.0001</b>
Starvation	10	daGal4	4.3	♀	2	40	29.6	38	40	25.5	38	40	27.8	48	0.0	26.3	
Starvation	10	daGal4	4.3	♀	3	40	30.7	38	40	33.3	38	40	33.5	38	0.6	0.0	<b>0.0489</b>
Starvation	10	daGal4	4.3	♀	4	40	32.6	43	40	24.8	33	40	29.2	48	0.0	11.6	
Starvation	10	daGal4	4.3	♀	5	40	30.0	38	41	36.3	42	40	35.1	42	0.0	0.0	
Starvation	10	daGal4	4.3	♀	6	39	31.5	38	40	35.5	42	40	35.9	46	1.1	9.5	<b>0.0002</b>
Starvation	10	daGal4	4.3	♂	1	37	26.6	34	40	23.6	34	40	34.3	47	28.9	38.2	<b>&lt;0.0001</b>
Starvation	10	daGal4	4.3	♂	2	40	11.6	16	40	10.4	16	40	13.9	33	19.6	106.3	<b>0.0147</b>
Starvation	10	daGal4	4.3	♂	3	40	17.3	22	38	16.5	18	41	17.1	18	0.0	0.0	
Starvation	10	daGal4	4.3	♂	4	40	17.2	18	39	17.3	18	39	17.7	22	2.4	22.2	0.5355
Starvation	10	daGal4	4.3	♂	5	39	16.1	18	39	17.6	22	39	17.6	22	0.0	0.0	
Starvation	10	daGal4	9.1	♀	1	39	32.7	40	39	25.6	40	39	27.3	40	0.0	0.0	
Starvation	10	daGal4	9.1	♀	2	39	31.6	38	40	33.3	38	40	30.8	38	-2.7	0.0	<b>0.0004</b>
Starvation	10	daGal4	9.1	♀	3	40	31.3	40	40	26.6	40	34	22.7	40	-14.6	0.0	<b>0.0176</b>
Starvation	10	daGal4	9.1	♀	4	40	33.3	42	41	36.3	42	40	30.2	38	-9.3	-9.5	<b>0.0003</b>
Starvation	10	daGal4	9.1	♀	5	40	34.2	42	40	35.5	42	40	29.1	34	-14.9	-19.0	<b>&lt;0.0001</b>
Starvation	10	daGal4	9.1	♂	1	39	11.3	15	39	11.2	15	37	10.1	10	-9.3	-33.3	<b>0.0087</b>
Starvation	10	daGal4	9.1	♂	2	40	16.4	18	38	16.5	18	40	16.0	18	-2.4	0.0	0.3321
Starvation	10	daGal4	9.1	♂	3	40	11.8	15	39	10.9	15	40	10.0	10	-8.2	-33.3	<b>0.0053</b>
Starvation	10	daGal4	9.1	♂	4	40	15.5	18	39	17.3	18	40	14.7	18	-5.2	0.0	<b>0.0465</b>
Starvation	10	daGal4	9.1	♂	5	40	16.0	18	39	17.6	22	39	15.1	18	-5.4	0.0	0.1044
Starvation	10	daGal4	3.2	♀	1	35	39.2	48	40	47.3	63	40	46.5	63	0.0	0.0	
Starvation	10	daGal4	3.2	♀	2	40	28.8	33	40	25.5	38	40	30.1	43	4.4	13.2	<b>0.0038</b>
Starvation	10	daGal4	3.2	♀	3	40	32.8	38	40	33.3	38	39	33.6	38	0.9	0.0	0.1294
Starvation	10	daGal4	3.2	♀	4	40	24.7	33	40	24.8	33	40	29.4	38	18.9	15.2	<b>0.0005</b>
Starvation	10	daGal4	3.2	♀	5	40	34.2	42	41	36.3	42	40	34.0	42	-0.6	0.0	<b>0.0463</b>

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	10	daGal4	3.2	♀	6	40	33.9	42	40	35.5	42	40	36.3	46	2.3	9.5	<b>0.0197</b>
Starvation	10	daGal4	3.2	♂	1	40	20.9	29	40	24.9	33	40	28.8	38	15.8	15.2	<b>0.0013</b>
Starvation	10	daGal4	3.2	♂	2	40	11.7	16	40	10.4	16	40	11.3	20	0.0	25.0	
Starvation	10	daGal4	3.2	♂	3	40	19.6	26	38	16.5	18	40	19.1	26	0.0	0.0	
Starvation	10	daGal4	3.2	♂	4	40	13.1	20	40	10.7	16	40	14.1	25	8.0	25.0	<b>0.0015</b>
Starvation	10	daGal4	3.2	♂	5	40	18.7	22	39	17.3	18	39	19.7	26	5.6	18.2	0.0764
Starvation	10	daGal4	3.2	♂	6	40	19.1	22	39	17.6	22	40	21.4	34	12.0	54.5	<b>0.0322</b>
Starvation	10	daGal4	10.1	♀	1	36	26.9	47	34	25.1	33	40	31.5	47	16.9	0.0	<b>0.0005</b>
Starvation	10	daGal4	10.1	♀	2	40	33.6	40	39	25.6	40	40	25.6	40	0.0	0.0	
Starvation	10	daGal4	10.1	♀	3	44	35.2	42	40	33.3	38	40	34.7	42	0.0	0.0	
Starvation	10	daGal4	10.1	♀	4	39	28.2	40	40	26.6	40	32	22.6	40	-15.2	0.0	<b>0.0049</b>
Starvation	10	daGal4	10.1	♀	5	40	35.1	42	41	36.3	42	40	36.3	42	0.0	0.0	
Starvation	10	daGal4	10.1	♀	6	40	36.0	42	40	35.5	42	40	36.9	42	2.5	0.0	0.1098
Starvation	10	daGal4	10.1	♂	1	36	19.8	22	36	21.6	22	39	24.6	33	13.9	50.0	<b>0.0004</b>
Starvation	10	daGal4	10.1	♂	2	40	11.6	15	39	11.2	15	40	13.7	21	17.4	40.0	<b>0.0014</b>
Starvation	10	daGal4	10.1	♂	3	40	19.1	22	38	16.5	18	43	19.9	26	4.0	18.2	0.1526
Starvation	10	daGal4	10.1	♂	4	40	13.3	21	39	10.9	15	39	10.3	15	-5.9	0.0	0.0783
Starvation	10	daGal4	10.1	♂	5	40	18.7	26	39	17.3	18	42	20.2	30	8.0	15.4	0.0615
Starvation	10	daGal4	10.1	♂	6	37	18.4	22	39	17.6	22	40	20.3	26	10.1	18.2	<b>0.0170</b>
Starvation	10	daGal4	3.1	♀	1	37	32.7	46	33	34.7	46	40	35.9	54	3.4	17.4	0.0574
Starvation	10	daGal4	3.1	♀	2	40	30.5	38	40	33.3	38	40	31.3	38	0.0	0.0	
Starvation	10	daGal4	3.1	♀	3	40	31.4	38	41	36.3	42	40	34.4	42	0.0	0.0	
Starvation	10	daGal4	3.1	♀	4	40	34.3	46	40	35.5	42	39	33.4	42	-2.7	0.0	<b>0.0087</b>
Starvation	10	daGal4	3.1	♂	1	40	18.6	26	40	18.5	30	40	21.4	30	15.1	0.0	<b>0.0082</b>
Starvation	10	daGal4	3.1	♂	2	41	18.1	22	38	16.5	18	40	18.5	22	2.2	0.0	0.2871
Starvation	10	daGal4	3.1	♂	3	40	16.5	22	39	17.3	18	41	18.3	26	5.8	18.2	<b>0.0031</b>
Starvation	10	daGal4	3.1	♂	4	40	16.6	22	39	17.6	22	38	16.7	18	0.0	-18.2	
Starvation	10	daGal4	4.4	♀	1	40	30.5	40	39	25.6	40	36	24.9	40	-2.5	0.0	<b>0.0005</b>
Starvation	10	daGal4	4.4	♀	2	36	53.6	59	38	51.1	72	39	54.5	72	1.6	0.0	0.1343
Starvation	10	daGal4	4.4	♀	3	40	34.1	38	40	33.3	38	41	32.1	42	-3.5	10.5	0.0820
Starvation	10	daGal4	4.4	♀	4	41	32.9	40	40	26.6	40	40	25.4	40	-4.5	0.0	0.3065
Starvation	10	daGal4	4.4	♀	5	40	34.7	42	41	36.3	42	31	35.8	46	0.0	9.5	
Starvation	10	daGal4	4.4	♀	6	40	36.5	42	40	35.5	42	37	35.0	42	-1.5	0.0	0.2074
Starvation	10	daGal4	4.4	♂	1	40	11.6	15	39	11.2	15	42	10.4	15	-7.4	0.0	<b>0.0040</b>
Starvation	10	daGal4	4.4	♂	2	37	27.2	34	40	23.6	34	40	30.7	47	12.8	38.2	<b>0.0286</b>
Starvation	10	daGal4	4.4	♂	3	40	16.7	18	38	16.5	18	39	17.2	22	2.9	22.2	0.1972
Starvation	10	daGal4	4.4	♂	4	40	12.4	15	39	10.9	15	40	13.2	21	6.5	40.0	<b>0.0004</b>
Starvation	10	daGal4	4.4	♂	5	40	17.1	22	39	17.3	18	39	17.3	22	0.0	0.0	
Starvation	10	daGal4	4.4	♂	6	41	16.0	18	39	17.6	22	39	18.9	26	7.6	18.2	<b>0.0228</b>
Starvation	10	DJ694	2.1	♀	1	40	49.5	63	40	49.0	58	40	47.5	58	-3.1	0.0	<b>0.0256</b>
Starvation	10	DJ694	2.1	♀	2	40	23.9	30	40	22.4	26	40	20.5	22	-8.5	-15.4	<b>0.0009</b>
Starvation	10	DJ694	2.1	♀	3	40	23.8	30	41	24.7	30	40	22.9	26	-3.8	-13.3	<b>0.0008</b>
Starvation	10	DJ694	2.1	♀	4	40	23.5	30	40	26.0	30	49	24.2	30	0.0	0.0	
Starvation	10	DJ694	2.1	♂	1	39	27.9	38	38	26.9	33	39	27.3	33	0.0	0.0	
Starvation	10	DJ694	2.1	♂	2	40	15.3	18	40	11.8	14	40	12.1	14	0.0	0.0	
Starvation	10	DJ694	2.1	♂	3	40	14.3	18	40	15.7	18	40	13.3	18	-7.0	0.0	<b>0.0199</b>
Starvation	10	DJ694	2.1	♂	4	40	14.5	18	40	12.9	14	40	13.6	18	0.0	0.0	
Starvation	10	DJ694	4.3	♀	1	40	48.6	59	38	50.3	72	40	52.8	72	4.9	0.0	0.4071
Starvation	10	DJ694	4.3	♀	2	40	29.6	38	40	20.6	33	40	25.1	33	0.0	0.0	

Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	10	DJ694	4.3	♀	3	38	24.4	30	40	22.4	26	40	20.0	22	-10.7	-15.4	<b>&lt;0.0001</b>
Starvation	10	DJ694	4.3	♀	4	40	32.6	43	40	21.6	33	40	23.1	33	0.0	0.0	
Starvation	10	DJ694	4.3	♀	5	40	25.0	30	41	24.7	30	30	21.3	22	-13.7	-26.7	<b>&lt;0.0001</b>
Starvation	10	DJ694	4.3	♀	6	40	26.7	34	40	26.0	30	40	22.5	26	-13.5	-13.3	<b>&lt;0.0001</b>
Starvation	10	DJ694	4.3	♂	1	37	26.6	34	40	25.9	34	40	25.6	34	-1.1	0.0	0.4436
Starvation	10	DJ694	4.3	♂	2	40	11.6	16	40	11.0	16	40	10.0	20	-8.7	25.0	0.0795
Starvation	10	DJ694	4.3	♂	3	40	16.4	18	40	11.8	14	40	13.7	14	0.0	0.0	
Starvation	10	DJ694	4.3	♂	4	40	10.5	16	40	9.4	16	40	9.5	16	0.0	0.0	
Starvation	10	DJ694	4.3	♂	5	40	16.1	18	40	15.7	18	40	14.1	18	-10.2	0.0	<b>0.0003</b>
Starvation	10	DJ694	4.3	♂	6	40	15.0	18	40	12.9	14	40	13.4	14	0.0	0.0	
Starvation	10	DJ694	9.1	♀	1	39	32.7	40	39	26.3	40	40	24.8	40	-5.8	0.0	0.1103
Starvation	10	DJ694	9.1	♀	2	39	26.3	30	40	22.4	26	40	19.9	22	-11.2	-15.4	<b>&lt;0.0001</b>
Starvation	10	DJ694	9.1	♀	3	40	31.3	40	40	23.0	27	41	24.0	40	0.0	0.0	
Starvation	10	DJ694	9.1	♀	4	40	27.0	34	41	24.7	30	40	20.6	22	-16.7	-26.7	<b>&lt;0.0001</b>
Starvation	10	DJ694	9.1	♀	5	40	27.6	30	40	26.0	30	40	19.3	26	-25.8	-13.3	<b>&lt;0.0001</b>
Starvation	10	DJ694	9.1	♂	1	39	11.3	15	38	10.0	10	39	10.0	10	0.0	0.0	
Starvation	10	DJ694	9.1	♂	2	40	16.2	18	40	11.8	14	40	10.9	14	-7.6	0.0	<b>0.0345</b>
Starvation	10	DJ694	9.1	♂	3	40	11.8	15	40	10.6	15	40	10.1	10	-4.7	-33.3	<b>0.0004</b>
Starvation	10	DJ694	9.1	♂	4	40	15.9	18	40	15.7	18	40	13.1	14	-16.6	-22.2	<b>&lt;0.0001</b>
Starvation	10	DJ694	9.1	♂	5	40	16.7	18	40	12.9	14	40	12.1	14	-6.2	0.0	0.0805
Starvation	10	DJ694	3.2	♀	1	35	39.2	48	38	44.4	53	40	47.0	53	5.9	0.0	0.3138
Starvation	10	DJ694	3.2	♀	2	40	28.8	33	40	20.6	33	40	25.9	33	0.0	0.0	
Starvation	10	DJ694	3.2	♀	3	40	26.4	34	40	22.4	26	40	23.6	34	0.0	0.0	
Starvation	10	DJ694	3.2	♀	4	40	24.7	33	40	21.6	33	40	25.4	33	2.8	0.0	<b>0.0147</b>
Starvation	10	DJ694	3.2	♀	5	40	26.1	30	41	24.7	30	40	24.7	30	0.0	0.0	
Starvation	10	DJ694	3.2	♀	6	40	27.6	30	40	26.0	30	40	25.9	38	-0.4	26.7	0.1205
Starvation	10	DJ694	3.2	♂	1	40	20.9	29	36	19.6	29	40	24.1	38	15.3	31.0	<b>0.0015</b>
Starvation	10	DJ694	3.2	♂	2	40	11.7	16	40	11.0	16	40	11.1	25	0.0	56.3	
Starvation	10	DJ694	3.2	♂	3	40	18.5	22	40	11.8	14	40	16.5	18	0.0	0.0	
Starvation	10	DJ694	3.2	♂	4	40	13.1	20	40	9.4	16	40	10.8	20	0.0	0.0	
Starvation	10	DJ694	3.2	♂	5	40	18.1	22	40	15.7	18	40	17.0	22	0.0	0.0	
Starvation	10	DJ694	3.2	♂	6	40	19.3	22	40	12.9	14	40	16.5	22	0.0	0.0	
Starvation	10	DJ694	10.1	♀	1	36	26.9	47	32	26.3	47	40	29.3	47	8.7	0.0	0.0586
Starvation	10	DJ694	10.1	♀	2	40	33.6	40	39	26.3	40	40	23.4	27	-11.1	-32.5	<b>0.0032</b>
Starvation	10	DJ694	10.1	♀	3	40	24.5	30	40	22.4	26	40	22.3	26	-0.4	0.0	<b>0.0017</b>
Starvation	10	DJ694	10.1	♀	4	39	28.2	40	40	23.0	27	40	21.5	27	-6.6	0.0	0.0272
Starvation	10	DJ694	10.1	♀	5	40	27.6	38	41	24.7	30	39	24.6	30	-0.7	0.0	0.7832
Starvation	10	DJ694	10.1	♀	6	40	27.1	34	40	26.0	30	40	24.0	30	-7.7	0.0	<b>0.0002</b>
Starvation	10	DJ694	10.1	♂	1	36	19.8	22	32	20.4	22	38	22.7	29	11.6	31.8	<b>0.0015</b>
Starvation	10	DJ694	10.1	♂	2	40	11.6	15	38	10.0	10	40	10.0	10	0.0	0.0	
Starvation	10	DJ694	10.1	♂	3	40	17.5	22	40	11.8	14	40	15.1	18	0.0	0.0	
Starvation	10	DJ694	10.1	♂	4	40	13.3	21	40	10.6	15	40	11.8	21	0.0	0.0	
Starvation	10	DJ694	10.1	♂	5	40	18.8	22	40	15.7	18	40	17.1	18	0.0	0.0	
Starvation	10	DJ694	10.1	♂	6	40	18.5	22	40	12.9	14	40	17.5	22	0.0	0.0	
Starvation	10	DJ694	3.1	♀	1	37	32.7	46	40	41.1	54	39	34.2	50	0.0	0.0	
Starvation	10	DJ694	3.1	♀	2	40	21.7	26	40	22.4	26	40	22.8	30	1.8	15.4	0.0746
Starvation	10	DJ694	3.1	♀	3	40	23.6	26	41	24.7	30	40	22.5	30	-4.7	0.0	<b>0.0004</b>
Starvation	10	DJ694	3.1	♀	4	40	24.2	30	40	26.0	30	40	24.8	34	0.0	13.3	
Starvation	10	DJ694	3.1	♂	1	40	18.6	26	40	18.2	26	40	16.0	22	-12.2	-15.4	<b>0.0029</b>



Table S2

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	10	DJ694	3.1	♂	2	40	17.5	18	40	11.8	14	20	13.0	14	0.0	0.0	
Starvation	10	DJ694	3.1	♂	3	40	17.6	18	40	15.7	18	40	15.7	18	0.0	0.0	
Starvation	10	DJ694	3.1	♂	4	40	16.0	18	40	12.9	14	40	16.4	18	2.5	0.0	0.5390
Starvation	10	DJ694	4.4	♀	1	40	29.8	35	40	24.8	35	40	21.8	30	-12.1	-14.3	<b>0.0025</b>
Starvation	10	DJ694	4.4	♀	2	40	30.5	40	39	26.3	40	39	22.4	27	-15.0	-32.5	<b>0.0002</b>
Starvation	10	DJ694	4.4	♀	3	36	53.6	59	38	50.3	72	40	54.8	72	2.1	0.0	<b>0.0406</b>
Starvation	10	DJ694	4.4	♀	4	40	23.9	26	40	22.4	26	40	23.1	30	0.0	15.4	
Starvation	10	DJ694	4.4	♀	5	41	32.9	40	40	23.0	27	40	24.3	40	0.0	0.0	
Starvation	10	DJ694	4.4	♀	6	40	25.9	30	41	24.7	30	40	25.5	30	0.0	0.0	
Starvation	10	DJ694	4.4	♀	7	40	26.8	30	40	26.0	30	40	24.8	30	-4.6	0.0	0.0578
Starvation	10	DJ694	4.4	♂	1	40	19.5	25	40	19.8	25	40	18.6	25	-4.5	0.0	0.1191
Starvation	10	DJ694	4.4	♂	2	40	11.6	15	38	10.0	10	39	10.1	10	0.0	0.0	
Starvation	10	DJ694	4.4	♂	3	37	27.2	34	40	25.9	34	38	24.4	34	-5.8	0.0	0.0516
Starvation	10	DJ694	4.4	♂	4	40	15.6	18	40	11.8	14	40	15.5	18	0.0	0.0	
Starvation	10	DJ694	4.4	♂	5	40	12.4	15	40	10.6	15	40	10.3	15	-3.5	0.0	0.2382
Starvation	10	DJ694	4.4	♂	6	30	16.5	18	40	15.7	18	40	16.6	22	0.4	22.2	0.0956
Starvation	10	DJ694	4.4	♂	7	40	16.2	18	40	12.9	14	40	14.3	18	0.0	0.0	
Starvation	10	D42	2.1	♀	1	40	49.5	63	40	46.6	58	40	49.8	58	0.6	0.0	0.1613
Starvation	10	D42	2.1	♀	2	40	25.8	32	40	25.1	32	39	25.3	28	0.0	-12.5	
Starvation	10	D42	2.1	♀	3	40	26.1	32	40	29.4	36	40	26.8	32	0.0	0.0	
Starvation	10	D42	2.1	♀	4	40	27.5	32	40	29.8	36	40	29.4	32	0.0	0.0	
Starvation	10	D42	2.1	♂	1	39	27.9	38	36	30.5	38	40	27.8	33	-0.7	-13.2	<b>0.0013</b>
Starvation	10	D42	2.1	♂	2	37	15.2	16	40	17.4	20	39	14.7	16	-3.3	0.0	0.4107
Starvation	10	D42	2.1	♂	3	40	16.5	24	39	15.7	20	40	14.8	16	-5.9	-20.0	<b>0.0023</b>
Starvation	10	D42	2.1	♂	4	40	15.6	16	40	16.9	20	40	15.8	16	0.0	0.0	
Starvation	10	D42	4.3	♀	1	40	48.6	59	39	51.3	72	39	54.8	72	6.8	0.0	<b>0.0457</b>
Starvation	10	D42	4.3	♀	2	40	29.6	38	40	24.9	43	40	23.0	33	-7.9	-13.2	0.1441
Starvation	10	D42	4.3	♀	3	40	27.1	32	40	25.1	32	38	25.7	32	0.0	0.0	
Starvation	10	D42	4.3	♀	4	40	32.6	43	40	23.5	33	40	23.7	33	0.0	0.0	
Starvation	10	D42	4.3	♀	5	40	28.8	32	40	29.4	36	40	29.2	32	0.0	0.0	
Starvation	10	D42	4.3	♀	6	40	29.9	32	40	29.8	36	40	27.0	32	-9.4	0.0	<b>&lt;0.0001</b>
Starvation	10	D42	4.3	♂	1	37	26.6	34	36	25.5	34	40	24.1	34	-5.5	0.0	<b>0.0405</b>
Starvation	10	D42	4.3	♂	2	40	11.6	16	40	9.9	16	40	7.9	16	-19.5	0.0	<b>0.0042</b>
Starvation	10	D42	4.3	♂	3	40	14.5	16	40	17.4	20	39	14.3	16	-1.8	0.0	0.6028
Starvation	10	D42	4.3	♂	4	40	10.5	16	40	10.6	16	40	9.6	16	-8.6	0.0	0.2443
Starvation	10	D42	4.3	♂	5	39	15.2	16	39	15.7	20	40	13.6	16	-10.4	0.0	<b>0.0003</b>
Starvation	10	D42	4.3	♂	6	40	14.8	16	40	16.9	20	40	13.7	20	-7.8	0.0	0.1176
Starvation	10	D42	9.1	♀	1	39	32.7	40	40	36.1	40	40	29.2	40	-10.8	0.0	<b>0.0299</b>
Starvation	10	D42	9.1	♀	2	40	27.6	36	40	25.1	32	40	23.2	28	-7.6	-12.5	<b>0.0058</b>
Starvation	10	D42	9.1	♀	3	40	31.3	40	40	28.9	40	40	26.2	40	-9.6	0.0	<b>0.0033</b>
Starvation	10	D42	9.1	♀	4	40	29.5	36	40	29.4	36	40	24.3	28	-17.3	-22.2	<b>&lt;0.0001</b>
Starvation	10	D42	9.1	♀	5	40	30.4	36	40	29.8	36	38	25.3	32	-15.2	-11.1	<b>&lt;0.0001</b>
Starvation	10	D42	9.1	♂	1	39	11.3	15	40	10.6	15	40	10.0	10	-5.9	-33.3	<b>0.0013</b>
Starvation	10	D42	9.1	♂	2	40	15.4	16	40	17.4	20	40	12.3	16	-19.9	0.0	<b>&lt;0.0001</b>
Starvation	10	D42	9.1	♂	3	40	11.8	15	40	11.9	21	40	10.5	15	-10.8	0.0	<b>0.0100</b>
Starvation	10	D42	9.1	♂	4	40	14.8	16	39	15.7	20	38	13.5	16	-8.5	0.0	<b>0.0002</b>
Starvation	10	D42	9.1	♂	5	40	15.4	16	40	16.9	20	40	16.0	16	0.0	0.0	
Starvation	10	D42	3.2	♀	1	35	39.2	48	40	44.5	63	40	44.1	58	0.0	0.0	
Starvation	10	D42	3.2	♀	2	40	28.8	33	40	24.9	43	40	31.9	38	10.7	0.0	<b>0.0053</b>

Stress	Age	Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
						n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
Starvation	10	D42	3.2	♀	3	40	26.3	32	40	25.1	32	40	26.1	36	0.0	12.5	
Starvation	10	D42	3.2	♀	4	40	24.7	33	40	23.5	33	40	30.1	38	21.8	15.2	<b>0.0004</b>
Starvation	10	D42	3.2	♀	5	40	26.7	32	40	29.4	36	40	26.9	32	0.0	0.0	
Starvation	10	D42	3.2	♀	6	40	30.6	36	40	29.8	36	40	28.4	32	-4.7	-11.1	<b>0.0026</b>
Starvation	10	D42	3.2	♂	1	40	20.9	29	39	22.9	33	40	26.1	38	13.8	15.2	<b>0.0487</b>
Starvation	10	D42	3.2	♂	2	40	11.7	16	40	9.9	16	40	12.4	16	5.8	0.0	<b>0.0006</b>
Starvation	10	D42	3.2	♂	3	40	17.5	20	40	17.4	20	40	16.8	20	-3.5	0.0	0.0887
Starvation	10	D42	3.2	♂	4	40	13.1	20	40	10.6	16	40	11.7	16	0.0	0.0	
Starvation	10	D42	3.2	♂	5	40	18.1	20	39	15.7	20	40	17.9	20	0.0	0.0	
Starvation	10	D42	3.2	♂	6	39	19.6	24	40	16.9	20	40	20.2	24	3.1	0.0	0.2151
Starvation	10	D42	10.1	♀	1	36	26.9	47	33	26.7	47	40	25.8	33	-3.4	-29.8	0.5199
Starvation	10	D42	10.1	♀	2	40	33.6	40	40	36.1	40	40	27.4	40	-18.3	0.0	<b>0.0002</b>
Starvation	10	D42	10.1	♀	3	39	24.0	32	40	25.1	32	40	25.8	32	2.8	0.0	<b>0.0406</b>
Starvation	10	D42	10.1	♀	4	39	28.2	40	40	28.9	40	40	23.0	27	-18.6	-32.5	<b>&lt;0.0001</b>
Starvation	10	D42	10.1	♀	5	40	28.9	36	40	29.4	36	39	25.8	32	-10.6	-11.1	<b>0.0004</b>
Starvation	10	D42	10.1	♀	6	40	30.6	40	40	29.8	36	40	29.9	40	0.0	0.0	
Starvation	10	D42	10.1	♂	1	36	19.8	22	39	21.0	22	39	24.5	33	16.5	50.0	<b>&lt;0.0001</b>
Starvation	10	D42	10.1	♂	2	40	11.6	15	40	10.6	15	40	11.3	15	0.0	0.0	
Starvation	10	D42	10.1	♂	3	40	18.5	24	40	17.4	20	40	19.9	24	7.6	0.0	0.0559
Starvation	10	D42	10.1	♂	4	40	13.3	21	40	11.9	21	40	15.6	21	17.5	0.0	<b>0.0031</b>
Starvation	10	D42	10.1	♂	5	27	16.7	24	39	15.7	20	40	22.2	28	32.9	16.7	<b>&lt;0.0001</b>
Starvation	10	D42	10.1	♂	6	41	20.0	28	40	16.9	20	40	24.4	32	22.0	14.3	<b>&lt;0.0001</b>
Starvation	10	D42	3.1	♀	1	37	32.7	46	35	37.7	50	40	37.9	58	0.6	16.0	<b>0.0082</b>
Starvation	10	D42	3.1	♀	2	39	22.8	28	40	25.1	32	38	22.5	28	-1.1	0.0	<b>0.0008</b>
Starvation	10	D42	3.1	♀	3	40	26.2	32	40	29.4	36	39	24.4	28	-6.8	-12.5	<b>0.0323</b>
Starvation	10	D42	3.1	♀	4	40	25.8	32	40	29.8	36	40	28.1	32	0.0	0.0	
Starvation	10	D42	3.1	♂	1	40	18.6	26	40	18.3	26	40	21.1	30	13.7	15.4	<b>0.0003</b>
Starvation	10	D42	3.1	♂	2	40	16.5	20	40	17.4	20	40	15.4	16	-6.5	-20.0	<b>0.0028</b>
Starvation	10	D42	3.1	♂	3	40	16.9	20	39	15.7	20	40	16.3	20	0.0	0.0	
Starvation	10	D42	3.1	♂	4	40	16.0	20	40	16.9	20	40	18.2	20	7.9	0.0	0.0572
Starvation	10	D42	4.4	♀	1	40	29.8	35	40	24.3	35	40	19.9	25	-18.0	-28.6	<b>&lt;0.0001</b>
Starvation	10	D42	4.4	♀	2	40	30.5	40	40	36.1	40	40	25.4	27	-16.8	-32.5	<b>0.0006</b>
Starvation	10	D42	4.4	♀	3	36	53.6	59	39	51.3	72	40	55.5	72	3.5	0.0	0.0973
Starvation	10	D42	4.4	♀	4	40	26.5	32	40	25.1	32	40	24.8	32	-1.3	0.0	0.0686
Starvation	10	D42	4.4	♀	5	41	32.9	40	40	28.9	40	39	23.7	40	-18.2	0.0	<b>&lt;0.0001</b>
Starvation	10	D42	4.4	♀	6	40	28.5	36	40	29.4	36	40	27.8	32	-2.5	-11.1	<b>0.0206</b>
Starvation	10	D42	4.4	♀	7	40	31.2	40	40	29.8	36	30	28.9	32	-2.9	-11.1	<b>0.0065</b>
Starvation	10	D42	4.4	♂	1	40	19.5	25	40	19.9	25	40	19.8	25	0.0	0.0	
Starvation	10	D42	4.4	♂	2	40	11.6	15	40	10.6	15	40	10.0	10	-5.9	-33.3	<b>0.0217</b>
Starvation	10	D42	4.4	♂	3	37	27.2	34	36	25.5	34	39	27.8	34	2.3	0.0	0.0617
Starvation	10	D42	4.4	♂	4	40	14.5	16	40	17.4	20	40	15.3	20	0.0	0.0	
Starvation	10	D42	4.4	♂	5	40	12.4	15	40	11.9	21	39	10.9	15	-8.6	0.0	<b>0.0082</b>
Starvation	10	D42	4.4	♂	6	40	14.6	16	39	15.7	20	41	16.1	20	2.6	0.0	<b>0.0007</b>
Starvation	10	D42	4.4	♂	7	40	15.7	16	40	16.9	20	40	16.4	20	0.0	0.0	

**Table S2: Stress resistance data and analysis of Hsp70 overexpression.** Mean: average survival in hours, n: number of flies in the replicate, P: highest Log-rank test value, 1: replicate number, 2: 95% mortality (maximum lifespan)