

<i>C. elegans</i> strain	Treatment	Median lifespan (days)	% Change	Number animals (died/total)	P – value against control group
Figure 6 Panel b					
Wild Type (N2)*	HT115 (control)	23		67/80	
	F36A2.9 RNAi	27	17.4%	58/80	<u>0.000066</u> <0.0001
	F09C8.1 RNAi	27	17.4%	59/80	<u>1.39 × 10⁻⁸</u> <0.0001
	Y65B4BR.1 RNAi	25	8.7%	61/80	0.0002
	Y73B6BL.37 RNAi	27	17.4%	72/80	<u>5.37 × 10⁻⁸</u> <0.0001
	R07B7.8 RNAi	25	8.7%	59/80	0.0026
	F13H8.11 RNAi	25	8.7%	63/80	0.0008
	T19D7.7 RNAi	27	17.4%	66/80	<u>0.000008</u> <0.0001
Wild Type (N2)	HT115 (control)	23		76/80	
	F36A2.9 RNAi	27	17.4%	73/80	<u>0.000261</u> <0.0001
	F09C8.1 RNAi	25	8.7%	67/80	<u>0.0184</u> <0.0500
	Y65B4BR.1 RNAi	27	17.4%	65/80	<u>0.000066</u> <0.0001
	Y73B6BL.37 RNAi	27	17.4%	72/80	<u>0.0041</u> <0.0100
	HT115 (control)	22		52/60	
	R07B7.8 RNAi	26	15.4%	64/80	0.0068
	F13H8.11 RNAi	26	15.4%	55/60	0.0037
	T19D7.7 RNAi	24	9.1%	/6270	0.0074
Figure 6 Panel e					
Wild Type (N2)	HT115 (control)	23		67/80	
	F36A2.9 RNAi 50%	27	17.4%	64/80	<u>0.000011</u> <0.0001
	elo-1 RNAi 50%	27	17.4%	58/80	<u>1.17 × 10⁻⁷</u> <0.0001
	F36A2.9+ elo-1 RNAi	27	17.4%	63/80	<u>1.49 × 10⁻⁸</u> <0.0001
Wild Type (N2)*	HT115 (control)	26		66/80	
	F36A2.9 RNAi 50%	30	15.4%	64/80	0.0007
	elo-1 RNAi 50%	30	15.4%	66/80	0.0004
	F36A2.9+ elo-1 RNAi	28	7.7%	67/80	0.0003
Figure 6 Panel g-l					
Wild Type (N2)*	HT115+BSA (control)	25		64/80	
	C18:1	20	-20.0%	56/80	0.5691
	elo-1 RNAi	25	0.0%	69/80	0.0028
	elo-1 RNAi+C18:1	20	-20.0%	68/80	0.9679
Wild Type (N2)*	HT115+BSA (control)	25		64/80	
	C20:1	20	-20.0%	59/80	0.2592

	<i>elo-1</i> RNAi	25	0.0%	69/80	0.0028
	<i>elo-1</i> RNAi+C20:1	22	-12.0%	66/80	0.6403
	<i>HT115</i> +BSA (control)	25		64/80	
Wild Type (N2)*	C22:1	22	-12.0%	61/80	0.5183
	<i>elo-1</i> RNAi	25	0.0%	69/80	0.0028
	<i>elo-1</i> RNAi+C22:1	22	-12.0%	73/80	0.7081
Wild Type (N2)*	<i>HT115</i> +BSA (control)	25		64/80	
	C18:1	20	-20.0%	56/80	0.5691
	<i>plb-1</i> RNAi	25	0.0%	65/80	0.0002
	<i>plb-1</i> RNAi+C18:1	20	-20.0%	67/80	0.0460
Wild Type (N2)*	<i>HT115</i> +BSA (control)	25		64/80	
	C20:1	20	-20.0%	59/80	0.2592
	<i>plb-1</i> RNAi	25	0.0%	65/80	0.0002
	<i>plb-1</i> RNAi+C20:1	22	-12.0%	62/80	0.3995
	<i>HT115</i> +BSA (control)	25		64/80	
Wild Type (N2)*	C22:1	22	-12.0%	61/80	0.5183
	<i>plb-1</i> RNAi	25	0.0%	65/80	0.0002
	<i>plb-1</i> RNAi+C22:1	20	-20.0%	71/80	0.3438
Wild Type (N2)	<i>HT115</i> +BSA (control)	22		57/70	
	C18:1	20	-9.1%	49/70	0.081
	<i>elo-1</i> RNAi	25	13.0%	60/70	0.0202
	<i>elo-1</i> RNAi+C18:1	20	-9.1%	58/70	0.3383
Wild Type (N2)	<i>HT115</i> +BSA (control)	22		57/70	
	C20:1	20	-9.1%	57/70	0.1672
	<i>elo-1</i> RNAi	25	13.0%	60/70	0.0202
	<i>elo-1</i> RNAi+C20:1	20	-9.1%	57/70	0.2350
Wild Type (N2)	<i>HT115</i> +BSA (control)	22		57/70	
	C22:1	20	-9.1%	56/70	0.1547
	<i>elo-1</i> RNAi	25	13.0%	60/70	0.0202
	<i>elo-1</i> RNAi+C22:1	22	0.0%	51/70	0.6237
Wild Type (N2)	<i>HT115</i> +BSA (control)	22		57/70	
	C18:1	20	-9.1%	49/70	0.0810
	<i>plb-1</i> RNAi	25	13.0%	54/70	0.0436
	<i>plb-1</i> RNAi+C18:1	20	-9.1%	58/70	0.0059
Wild Type (N2)	<i>HT115</i> +BSA (control)	22		57/70	
	C20:1	20	-9.1%	57/70	0.1672
	<i>plb-1</i> RNAi	25	13.0%	54/70	0.0436

	<i>elo-1</i> RNAi+C20:1	18	-18.2%	52/70	0.0010
Wild Type (N2)	<i>HT115</i> +BSA (control)	22		57/70	
	C22:1	20	-9.1%	56/70	0.1547
	<i>plb-1</i> RNAi	25	13. %	54/70	0.0436
	<i>plb-1</i> RNAi+C22:1	22	0.0%	50/70	0.3431
Figure 6 panel f					
<i>daf-16</i> (<i>mu86</i>)*	<i>HT115</i>	18		73/80	
	<i>F36A2.9</i> RNAi	18	0.0%	75/80	0.2878
<i>skn-1</i> (<i>zu67</i>)*	<i>HT115</i>	25		79/80	
	<i>F36A2.9</i> RNAi	27	8.0%	65/80	0.6520
<i>daf-16</i> (<i>mu86</i>)	<i>HT115</i>	18		60/70	
	<i>F36A2.9</i> RNAi	18	0.0%	66/70	0.9807
<i>skn-1</i> (<i>zu67</i>)	<i>HT115</i>	23		66/70	
	<i>F36A2.9</i> RNAi	25	8.7%	63/70	0.5999
Figure 7 panel a					
Wild Type (N2)*	<i>HT115</i>	25		68/80	
	<i>elo-1</i> RNAi	32	28.0%	62/80	0.000088<0.0001
	<i>elo-3</i> RNAi	20	-20.0%	57/80	0.0371
Wild Type (N2)	<i>HT115</i>	26		66/80	
	<i>elo-1</i> RNAi	30	15.4%	64/80	0.0004
	<i>HT115</i>	23		67/80	
	<i>elo-3</i> RNAi	25	8.7%	63/80	0.1473

*Experiment represented in figure.

Cell culture experiments Figure 8 d. e

Comparison	P (Dunnett adj.)	
C16:0 vs Control	0.9751	ns
C18:0 vs Control	0.4424	ns
C20:0 vs Control	0.4734	ns
C22:0 vs Control	7.49×10 ⁻⁹	****
C16:1 vs Control	0.9999	ns
C18:1 vs Control	0.7407	ns
C20:1 vs Control	3.11×10 ⁻⁷	****
C22:1 vs Control	2.10×10 ⁻⁴	***

Formatted: Font: 10 pt, Bold

Formatted: Font: 10 pt, Bold

Formatted: Font: 10 pt, Bold

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) American Typewriter

Formatted: Font: (Default) Adobe Caslon Pro

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) American Typewriter

Formatted: Font: (Default) Adobe Caslon Pro

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Font: (Default) American Typewriter

Formatted: Font: (Default) Adobe Caslon Pro

Formatted: Font: (Default) Arial