

Supplementary Table 1

Sterility Data and DGLA update data relating to Figures 1 and 2

N= number of plates of 50 worms each

Data for Figure 1A

Treatment (WT)	% Sterility	% DGLA in worm lipids	N
0mM DGLA / DMSO	0%	3.57%	6
0mM DGLA / 125µM Fer-1	0%	3.49%	6
0mM DGLA / 250µM Fer-1	0%	3.66%	6
0.1mM DGLA / DMSO	52%	7.96%	6
0.1mM DGLA / 125µM Fer-1	23%	8.40%	6
0.1mM DGLA / 250µM Fer-1	15%	8.51%	6
0.13mM DGLA / DMSO	75%	9.55%	6
0.13mM DGLA / 125µM Fer-1	38%	10.44%	6
0.13mM DGLA / 250µM Fer-1	32%	10.48%	6

Treatment ( <i>ced-3</i> )	% Sterility	% DGLA in worm lipids	N
0mM DGLA / DMSO	0%	3.62%	6
0mM DGLA / 125µM Fer-1	0%	3.67%	6
0mM DGLA / 250µM Fer-1	0%	3.75%	6
0.1mM DGLA / DMSO	26%	8.75%	6
0.1mM DGLA / 125µM Fer-1	3%	9.90%	6
0.1mM DGLA / 250µM Fer-1	1%	8.72%	6
0.13mM DGLA / DMSO	42%	10.73%	6
0.13mM DGLA / 125µM Fer-1	16%	11.17%	6
0.13mM DGLA / 250µM Fer-1	6%	10.96%	6

Data for Figure 1D

Treatment (WT)	% Sterility	% DGLA in worm lipids	N
0mM DGLA / DMSO (0.5)	0%	5.54%	5
0mM DGLA / DMSO (1)	0%	4.50%	5
0mM DGLA / 0.5mM Trolox	0%	4.41%	5
0mM DGLA / 1mM Trolox	0%	4.22%	5
0.1mM DGLA / DMSO (0.5)	12%	9.53%	5
0.1mM DGLA / DMSO (1)	13%	8.60%	5
0.1mM DGLA / 0.5mM Trolox	0%	8.30%	5
0.1mM DGLA / 1mM Trolox	0%	8.82%	5
0.15mM DGLA / DMSO (0.5)	67%	9.41%	5
0.15mM DGLA / DMSO (1)	71.2%	10.09%	5
0.15mM DGLA / 0.5mM Trolox	37.2%	9.44%	5
0.15mM DGLA / 1mM Trolox	25.2%	9.49%	5

Data for Figure 1G

Treatment	% Sterility	% DGLA in worm lipids	N
0mM DGLA N2	0.0%	3.67%	5
0mM DGLA bli-3(e767)	0.0%	3.27%	5
0mM DGLA bli-3(im10)	0.0%	3.49%	5
0.15mM DGLA N2	62.4%	8.33%	5
0.15mM DGLA bli-3(e767)	7.2%	11.47%	5
0.15mM DGLA bli-3(im10)	4.4%	11.66%	5
0.3mM DGLA N2	90.8%	14.05%	5
0.3mM DGLA bli-3(e767)	15.2%	17.40%	5
0.3mM DGLA bli-3(im10)	9.2%	15.35%	5

Data for Figure 1F

Treatment	% Sterility	% DGLA in worm lipids	N
0mM DGLA EV	0.0%	4.33%	5
0mM DGLA gpx-1	0.0%	3.78%	5
0mM DGLA gpx-6	0.0%	4.03%	5
0mM DGLA gpx-7	0.0%	3.73%	5
0.2mM DGLA EV	24.8%	10.24%	5
0.2mM DGLA gpx-1	92.0%	9.59%	5
0.2mM DGLA gpx-6	82.0%	9.69%	5
0.2mM DGLA gpx-7	98.0%	9.52%	5
0.4mM DGLA EV	73.6%	11.34%	5
0.4mM DGLA gpx-1	98.8%	11.91%	5
0.4mM DGLA gpx-6	100.0%	10.63%	5
0.4mM DGLA gpx-7	98.4%	10.12%	5

Data for Figure 1H

Treatment	% Sterility	% DGLA in worm lipids	N
0mM DGLA N2 DMSO	0.0%	3.81%	6
0mM DGLA ftn-1 DMSO	0.0%	3.80%	6
0mM DGLA N2 75BP	0.0%	6.87%	6
0mM DGLA ftn-1 75BP	0.0%	9.31%	6
0.1mM DGLA N2 DMSO	49.3%	8.87%	6
0.1mM DGLA ftn-1 DMSO	70.0%	9.09%	6
0.1mM DGLA N2 75BP	5.3%	15.79%	6
0.1mM DGLA ftn-1 75BP	29.3%	14.33%	6
0.15mM DGLA N2 DMSO	76.0%	12.08%	6
0.15mM DGLA ftn-1 DMSO	88.7%	10.77%	6
0.15mM DGLA N2 75BP	18.0%	15.78%	6
0.15mM DGLA ftn-1 75BP	33.3%	19.49%	6

Data for Figure 2C

Treatment	% Sterility	% DGLA in worm lipids	N
0mM DGLA N2	0.0%	3.81%	5
0mM DGLA ads-1	0.0%	4.40%	5
0.1mM DGLA N2	44.4%	9.55%	5
0.1mM DGLA ads-1	92.0%	7.58%	5
0.15mM DGLA N2	68.8%	11.94%	5
0.15mM DGLA ads-1	98.0%	8.74%	5

Data for Figure 2D

Treatment	% Sterility	% DGLA in worm lipids	N
0mM DGLA/DMSO N2	0.0%	3.87%	5
0mM DGLA/DMSO ads-1	0.0%	3.63%	5
0.05mM DGLA/DMSO N2	0.4%	6.79%	5
0.05mM DGLA/125uM Fer-1 N2	0.0%	6.80%	5
0.05mM DGLA/250uM Fer-1 N2	0.0%	6.81%	5
0.05mM DGLA/DMSO ads-1	64.4%	4.54%	5
0.05mM DGLA/125uM Fer-1 ads-1	48.4%	4.70%	5
0.05mM DGLA/250uM Fer-1 ads-1	29.2%	4.67%	5
0.075mM DGLA/DMSO N2	6.8%	7.83%	5
0.075mM DGLA/125uM Fer-1 N2	1.6%	7.32%	5
0.075mM DGLA/250uM Fer-1 N2	0.8%	7.55%	5
0.075mM DGLA/DMSO ads-1	80.8%	4.92%	5
0.075mM DGLA/125uM Fer-1 ads-1	67.6%	5.03%	5
0.075mM DGLA/250uM Fer-1 ads-1	59.6%	5.20%	5