

1. LC₅₀ after acute exposure

Norharman		Harman	
Dose (mg/L)	Mortality (%)	Dose (mg/L)	Mortality (%)
0.00	1.64	0.00	0.00
5.00	5.00	5.00	1.64
40.00	21.88	10.00	1.67
50.00	23.44	50.00	8.62
70.00	63.89	100.00	13.33
80.00	71.43	150.00	46.67
100.00	84.85	200.00	67.69

2. Physiological indicators

2.1 Body length after 24 h and 6 d

Norharman								Harman							
24 hours (% control)				6 days (% control)				24 hours (% control)				6 days (% control)			
Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10
100.38	116.52	91.51	110.09	92.20	111.36	76.91	96.15	101.46	91.75	86.71	87.58	108.17	98.82	96.52	90.73
116.33	88.34	101.89	104.67	94.61	100.93	78.61	70.76	92.61	84.20	85.30	76.60	96.30	94.00	90.17	94.45
103.35	92.71	95.22	103.98	103.41	103.54	89.67	88.23	111.33	75.12	84.36	89.57	91.62	96.37	100.54	87.08
117.41	119.59	90.79	93.12	97.32	100.34	85.69	80.25	91.56	101.26	78.26	75.08	110.10	101.82	86.64	70.99
117.97	123.02	92.68	79.60	95.19	101.48	82.03	82.89	95.51	94.80	83.17	100.38	105.85	93.86	67.66	77.31
101.34	120.17	83.95	78.87	107.12	99.51	88.96	75.02	84.17	98.12	76.00	89.57	103.67	90.04	73.51	81.89
110.21	96.95	101.99	77.85	89.36	104.06	93.65	87.96	100.84	105.00	98.51	84.86	94.91	80.59	79.91	89.31
99.21	99.71	110.94	92.80	97.08	96.63	83.96	99.34	82.86	106.04	75.12	78.12	80.83	87.02	81.32	75.80
94.53	95.49	103.07	92.84	101.10	99.47	95.82	86.46	88.47	103.23	85.87	92.96	92.23	91.50	69.94	79.84
115.23	114.28	110.59	98.78	99.78	114.56	99.66	80.12	84.62	112.87	87.54	81.09	99.21	98.55	90.61	85.55
111.19	108.41	104.56	93.86	94.74	100.58	92.44	80.62	91.54	76.77	88.13	82.35	99.67	99.35	94.40	83.48
105.40	102.35	107.33	80.55	106.94	93.98	86.38	75.57	107.71	83.77	78.07	90.69	101.67	99.02	94.75	65.23
88.65	106.68	110.16	83.08	103.07	102.52	81.86	87.43	109.85	97.56	73.69	90.66	100.38	94.06	96.15	85.33
84.86	110.96	93.12	78.86	102.17	105.68	89.67	88.73	99.38	112.83	89.47	77.42	99.16	90.11	87.24	87.63
96.79	116.80	101.67	89.26	103.07	109.20	93.47	69.45	108.90	108.56	83.23	82.99	101.77	96.16	94.76	95.57
81.57	111.77	83.05	89.20	97.59	108.68	84.24	81.16	104.16	90.41	74.63	78.63	94.21	89.31	92.29	91.87
80.19	111.49	108.54	108.40	105.77	101.67	81.82	72.03	104.69	77.29	80.64	85.16	102.57	93.56	74.00	84.17
78.35	103.63	104.86	102.31	101.08	104.67	91.79	81.98	107.47	102.87	77.60	84.05	109.42	105.98	97.95	76.78
78.92	114.44	97.49	102.06	105.30	110.70	67.68	84.77	116.18	104.40	81.52	92.07	106.75	92.78	88.36	75.72
118.12	100.22	113.01	103.95	103.10	106.59	95.42	77.81	116.69	101.52	86.04	86.41	101.51	90.80	90.39	76.57

2.2 Body width after 24 h and 6 d

Norharman								Harman							
24 hours (% control)				6 days (% control)				24 hours (% control)				6 days (% control)			
Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10
111.58	109.88	78.38	85.23	79.74	108.09	59.86	105.24	95.16	84.11	94.40	84.11	112.44	104.66	82.84	86.93
114.80	83.12	86.28	91.67	87.26	90.19	76.05	70.62	99.09	81.04	91.76	83.55	89.04	119.87	115.08	92.85
105.55	80.98	97.99	90.00	109.62	100.81	84.52	112.79	111.66	73.45	76.45	96.22	94.87	98.74	91.94	86.37
126.83	122.53	72.46	75.62	105.51	120.27	72.94	91.32	88.36	95.92	83.18	87.34	104.03	116.65	97.13	72.07
120.01	115.76	83.18	76.12	96.36	95.80	82.30	99.76	77.54	102.82	73.61	97.24	97.13	87.03	64.55	75.69
109.62	109.97	89.15	68.80	100.10	91.35	103.21	96.96	85.23	113.41	73.68	96.22	115.46	85.26	66.43	63.92
117.96	89.88	92.58	95.59	81.09	99.89	92.03	106.46	91.40	117.66	100.57	83.51	103.08	84.32	98.58	79.72
88.65	114.51	83.30	84.58	101.29	98.04	86.10	103.32	85.66	118.16	98.06	85.39	70.09	79.12	90.40	79.00
111.14	97.32	87.63	91.20	103.13	98.62	109.33	105.64	81.67	105.79	84.11	87.34	82.84	100.94	77.93	72.76
104.96	105.84	86.05	64.53	87.26	105.51	93.48	78.90	85.39	103.94	81.83	101.17	95.68	106.11	71.47	75.47
113.16	113.66	88.65	72.08	98.73	103.40	97.65	108.01	69.66	74.90	78.23	82.92	94.02	102.80	89.07	84.10
119.92	107.24	82.83	81.86	104.61	118.24	91.82	80.69	95.92	73.68	81.04	103.21	95.15	108.85	85.26	65.68
88.21	94.01	91.38	83.44	114.84	112.73	77.79	118.82	114.60	102.98	79.92	91.10	98.74	112.12	87.56	74.65
94.45	92.46	63.09	59.96	108.54	115.98	82.43	84.67	89.68	99.91	94.73	83.18	94.24	119.36	75.72	83.03
82.83	113.16	88.51	75.24	114.84	107.99	98.31	66.11	103.87	99.88	89.91	80.25	115.58	117.41	86.37	81.30
72.99	117.14	69.94	71.15	102.55	79.45	81.91	98.07	124.63	110.01	76.45	79.36	90.80	113.51	85.80	91.31
85.37	109.62	105.55	86.66	105.88	88.37	96.52	67.77	139.67	72.56	69.82	88.56	128.62	105.07	78.93	78.18
63.04	99.78	91.23	85.37	101.39	96.25	101.39	96.81	132.74	109.05	89.55	91.20	125.66	115.24	86.37	72.89
102.18	110.58	88.77	88.54	93.03	102.29	74.23	103.40	121.13	129.28	76.62	89.19	89.89	85.39	87.97	67.35
66.75	91.67	83.76	82.83	104.22	107.06	96.36	85.04	106.94	96.94	86.38	79.82	102.64	99.12	83.34	79.12

2.3 Head thrashes after 24 h and 6 d

Norharman								Harman							
24 hours (times/min)				6 days (times/min)				24 hours (times/min)				6 days (times/min)			
Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10
91	90	91	96	94	84	75	56	91	80	76	60	94	104	58	60
93	90	95	90	103	100	77	30	93	96	53	58	103	90	55	54
92	103	101	88	98	90	50	26	92	84	55	50	98	98	70	40
102	85	88	89	105	79	59	20	102	60	72	46	105	96	66	42
96	102	82	87	99	82	66	16	96	66	59	62	99	88	62	58
90	99	93	86	96	77	51	34	90	88	53	57	96	90	60	64
93	93	90	90	98	70	48	12	93	76	55	61	98	88	42	56
112	87	80	78	102	62	42	10	112	82	58	40	102	85	45	32
86	90	85	80	92	78	50	8	86	66	56	69	92	80	50	45
105	92	91	89	99	80	53	7	105	70	46	42	99	82	44	40
113	90	92	90	88	80	70	40	113	88	64	48	88	82	66	28
90	96	88	86	95	90	54	19	90	98	57	68	95	85	54	32
96	102	82	82	80	78	43	18	96	70	70	47	80	90	50	42
106	98	89	78	100	70	50	22	106	60	58	41	100	78	46	41
80	99	95	80	90	72	44	15	80	66	69	40	90	88	68	30

2.4 Body bends after 24 h and 6 d

Norharman								Harman							
24 hours (times/20 s)				6 days (times/20 s)				24 hours (times/20 s)				6 days (times/20 s)			
Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10
36	33	32	29	33	29	23	20	36	39	24	31	33	38	32	18
34	35	34	28	28	22	22	26	34	30	21	30	28	30	27	15
39	29	36	30	34	32	28	12	39	34	17	27	34	29	24	12
39	40	33	32	27	24	20	10	39	35	24	31	27	31	21	11
42	36	39	30	34	35	11	14	42	33	20	28	34	25	18	8
39	42	38	30	29	30	25	11	39	36	29	36	29	25	25	17
31	36	30	31	30	31	18	3	31	38	24	34	30	25	22	8
37	36	37	30	28	25	24	5	37	34	34	30	28	27	21	9
36	35	35	35	33	20	17	4	36	32	30	25	33	22	20	20
33	32	35	36	39	28	20	14	33	27	32	22	39	15	18	10
40	32	35	33	33	30	22	19	40	37	30	38	33	26	28	16
30	33	37	30	30	28	27	9	30	28	29	29	30	10	22	18
33	30	32	32	32	32	16	20	33	35	31	28	32	14	20	11
24	34	34	29	38	29	20	8	24	25	30	34	38	12	24	8
29	36	30	31	28	26	10	6	29	32	33	30	28	10	12	10

2.5 pharyngeal pumping after 24 h and 6 d

Norharman								Harman							
24 hours (times/20 s)				6 days (times/20 s)				24 hours (times/20 s)				6 days (times/20 s)			
Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10	Control	0.05	5	10
28	33	28	26	22	20	19	15	31	26	30	24	26	22	18	12
27	28	26	28	18	21	21	11	30	32	32	22	24	20	20	13
28	25	27	25	19	18	21	13	28	30	26	25	25	19	16	15
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28	33	24	27	19	18	15	12	34	31	25	24	23	21	14	11
30	25	25	25	15	17	14	17	32	23	29	30	25	19	18	20
31	29	27	24	21	18	17	12	30	27	25	23	27	23	20	15
30	31	24	22	20	18	16	10	29	29	27	25	20	20	18	13
29	34	26	25	19	20	18	16	26	28	24	24	28	17	21	18
29	28	31	23	20	21	16	14	30	32	26	28	23	18	17	16

3. Foraging behavior and chemotaxis assay

3.1 Foraging behavior

Norharman	Control (%)				0.05 (%)				5 (%)				10 (%)			
2 h	2.50	0.00	0.00	4.88	0.00	2.00	10.20	0.00	0.00	0.00	0.00	3.28	0.00	10.77	0.00	0.00
4 h	2.50	2.22	10.00	12.20	4.17	16.00	30.61	8.77	6.38	2.22	11.36	16.39	4.65	20.00	1.28	4.76
8 h	17.50	37.78	15.00	29.27	20.83	40.00	38.78	22.81	6.38	2.22	11.36	16.39	4.65	20.00	1.28	4.76
24 h	40.00	75.56	35.00	58.54	43.75	54.00	63.27	45.61	42.55	24.44	59.09	49.18	34.88	49.23	28.21	26.98

Harman	Control (%)				0.05 (%)				5 (%)				10 (%)			
2 h	0.00	2.50	0.00	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4 h	7.14	2.50	11.11	11.76	0.00	7.14	5.80	17.50	4.90	9.00	4.69	0.00	2.47	3.70	1.61	0.00
8 h	14.29	5.00	20.00	41.18	9.76	30.00	10.14	50.00	14.71	40.00	18.75	2.94	3.70	3.70	1.61	3.53
24 h	47.62	60.00	51.11	84.31	24.39	45.71	24.64	70.00	31.37	55.00	42.19	17.65	4.94	3.70	1.61	4.71

3.2 Chemotaxis index

□	Norharman				Harman			
Control	-0.08	-0.03	-0.05	-0.06	-0.12	-0.04	-0.06	-0.23
0.05	-0.05	-0.03	-0.03	-0.05	-0.06	-0.10	-0.08	-0.11
5	0.08	0.02	0.02	0.05	0.02	-0.03	0.02	0.03
10	-0.02	0.05	-0.02	0.03	0.05	0.04	0.03	0.05

4. Lifespan (Mortality)

Acute exposure	Norharman (24 h)				☐ Acute exposure	Harman (24 h)			
time(days)	Control	0.05	5	10	time(days)	Control	0.05	5	10
0	☐	☐	☐	☐	0	☐	☐	☐	☐
2	☐	☐	☐	1	2	☐	☐	1	1
7	☐	1	☐	☐	3	☐	☐	☐	1
8	☐	1	1	☐	8	☐	☐	☐	1
8	☐	1	1	☐	8	☐	☐	☐	1
8	☐	1	1	☐	8	☐	☐	☐	☐
9	☐	☐	1	1	8	☐	☐	☐	☐
9	☐	☐	1	1	9	☐	☐	1	1
9	☐	☐	☐	1	9	☐	☐	1	1
9	☐	☐	☐	1	9	☐	☐	☐	1
9	☐	☐	☐	1	9	☐	☐	☐	1
10	1	1	1	1	9	☐	☐	☐	☐
10	1	1	☐	☐	9	☐	☐	☐	☐
10	☐	1	☐	☐	10	1	☐	1	1
10	☐	1	☐	☐	10	1	☐	☐	1
11	1	☐	1	1	10	☐	☐	☐	1
11	1	☐	1	1	10	☐	☐	☐	1
11	☐	☐	1	1	10	☐	☐	☐	1
11	☐	☐	1	1	10	☐	☐	☐	1
11	☐	☐	1	☐	10	☐	☐	☐	☐
12	1	1	1	1	10	☐	☐	☐	☐
12	☐	1	1	☐	11	1	☐	1	1
12	☐	1	☐	☐	11	1	☐	☐	1
13	1	1	1	☐	11	☐	☐	☐	1
13	1	1	1	☐	11	☐	☐	☐	☐
13	1	1	1	☐	11	☐	☐	☐	☐
13	1	1	☐	☐	11	☐	☐	☐	☐
13	1	1	☐	☐	11	☐	☐	☐	☐
13	1	1	☐	☐	11	☐	☐	☐	☐
14	☐	1	1	☐	11	☐	☐	☐	☐
14	☐	☐	1	☐	11	☐	☐	☐	☐
15	1	1	1	☐	11	☐	☐	☐	☐
15	1	1	☐	☐	11	☐	☐	☐	☐
15	1	1	☐	☐	12	1	1	1	1
15	☐	1	☐	☐	12	☐	1	1	1
15	☐	1	☐	☐	12	☐	1	1	☐
15	☐	1	☐	☐	12	☐	1	1	☐
15	☐	1	☐	☐	12	☐	1	1	☐
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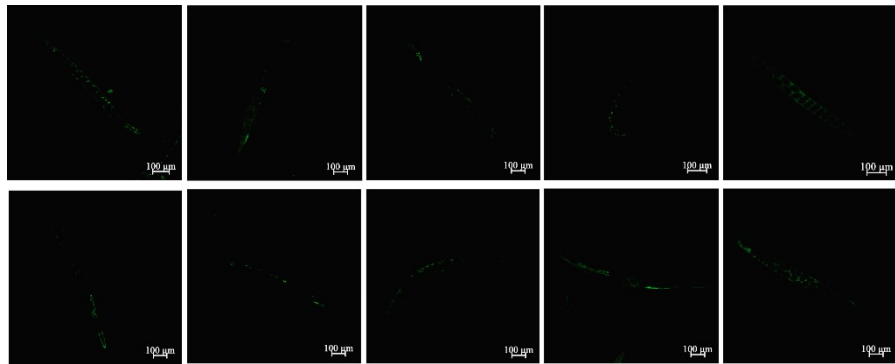
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	1	1	0	0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	1	1	0	0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	1	1	0	0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	0	1	0	0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	0	0	0	0

Chronic exposure	Norharman (6 d)				Chronic exposure	Harman (6 d)			
time(days)	Control	0.05	5	10	time(days)	Control	0.05	5	10
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	1	1	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
3	<input type="checkbox"/>	<input type="checkbox"/>	1	1	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	3	1	<input type="checkbox"/>	<input type="checkbox"/>	1
4	<input type="checkbox"/>	1	1	1	3	1	<input type="checkbox"/>	<input type="checkbox"/>	1
4	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
5	1	1	1	1	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
7	1	1	1	1	4	<input type="checkbox"/>	1	1	1
7	<input type="checkbox"/>	1	1	<input type="checkbox"/>	4	<input type="checkbox"/>	1	1	<input type="checkbox"/>
9	1	1	1	1	4	<input type="checkbox"/>	1	1	<input type="checkbox"/>
9	1	1	1	1	4	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
9	1	1	1	1	5	1	1	1	1
9	1	1	1	1	5	<input type="checkbox"/>	1	1	1
9	1	1	1	1	5	<input type="checkbox"/>	1	1	<input type="checkbox"/>
9	1	<input type="checkbox"/>	1	1	5	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>
9	1	<input type="checkbox"/>	1	1	6	<input type="checkbox"/>	1	1	1
9	<input type="checkbox"/>	<input type="checkbox"/>	1	1	6	<input type="checkbox"/>	1	1	1
9	<input type="checkbox"/>	<input type="checkbox"/>	1	1	6	<input type="checkbox"/>	1	1	1

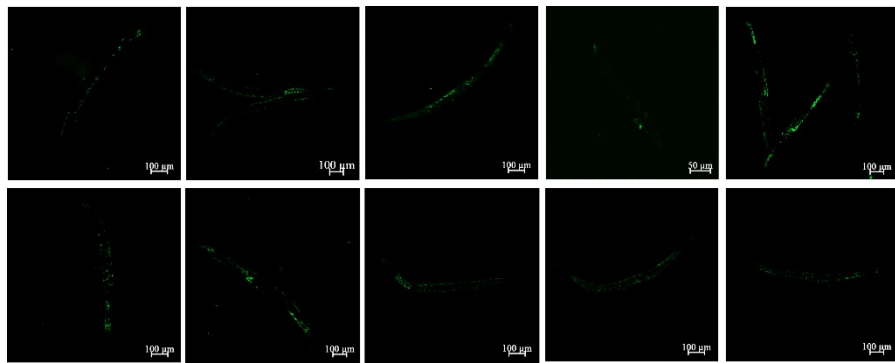
9	<input type="checkbox"/>	<input type="checkbox"/>	1	1	6	<input type="checkbox"/>	1	1	1
9	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	6	<input type="checkbox"/>	1	1	1
9	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	6	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
10	1	1	1	1	6	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
10	1	1	1	1	6	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
10	1	1	<input type="checkbox"/>	1	6	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
10	1	1	<input type="checkbox"/>	1	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	1	1	<input type="checkbox"/>	<input type="checkbox"/>	7	1	<input type="checkbox"/>	<input type="checkbox"/>	1
11	1	1	1	0	9	1	1	1	1
11	1	1	1	<input type="checkbox"/>	9	1	0	1	1
11	1	1	0	<input type="checkbox"/>	9	1	<input type="checkbox"/>	0	0
11	1	1	<input type="checkbox"/>	<input type="checkbox"/>	9	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	1	1	<input type="checkbox"/>	<input type="checkbox"/>	9	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	1	1	<input type="checkbox"/>	<input type="checkbox"/>	9	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	0	0	0	0	9	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. ROS and SOD, CAT, MDA

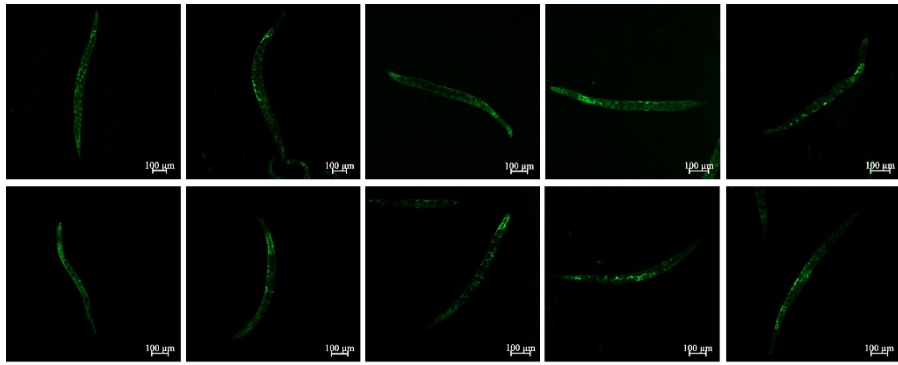
5.1 ROS Norharman



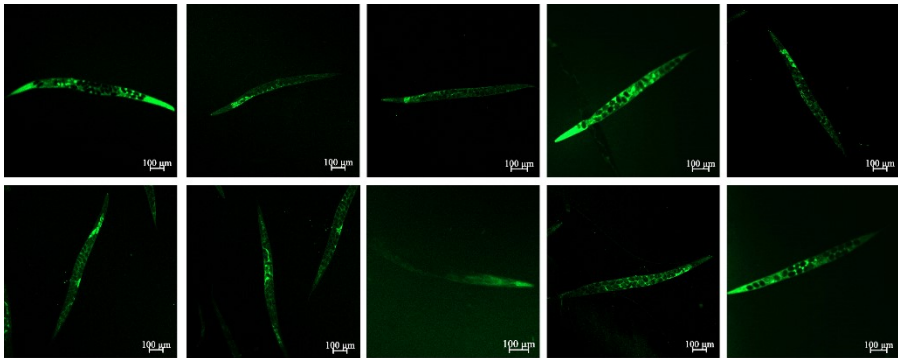
Norharman Control



Norharman 0.05

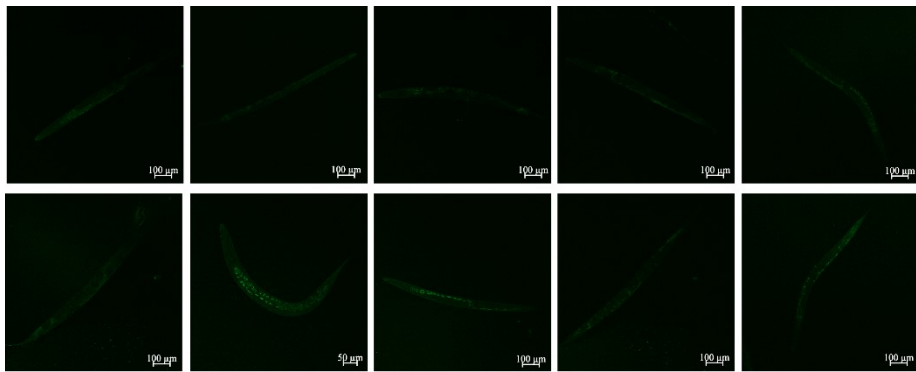


Norharman 5

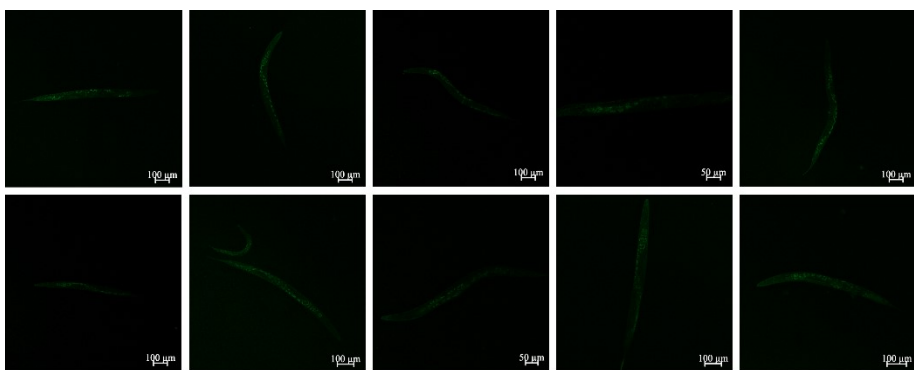


Norharman 10

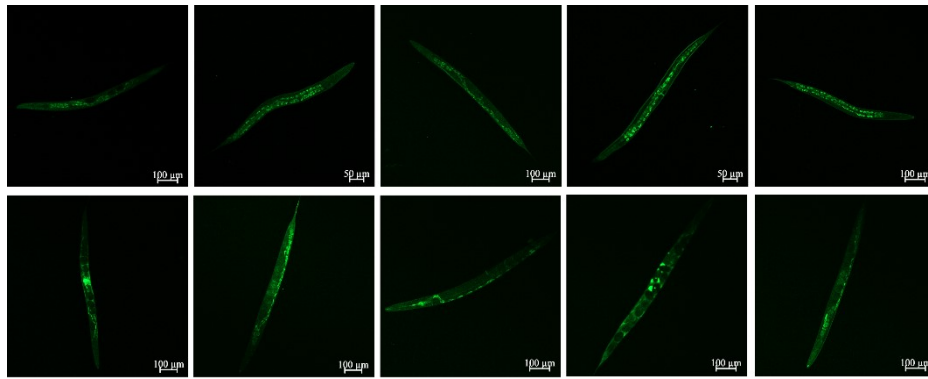
5.2 ROS Harman



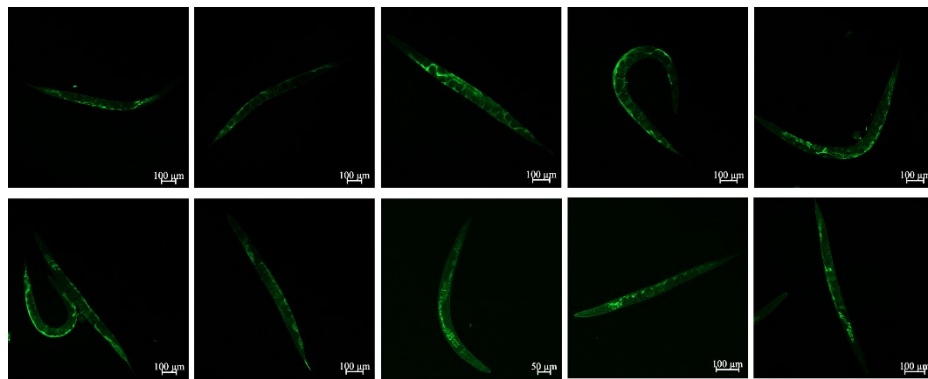
Harman Control



Harman 0.05



Harman 5



Harman 10

5.2 ROS Relative Fluorescent Intensity

Norharman (% Control)				Harman (% Control)			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
112.53	190.46	404.90	577.11	111.20	91.95	133.12	154.09
101.09	253.41	459.40	788.01	115.40	59.05	152.37	158.38
69.21	155.59	452.59	595.91	87.31	59.52	161.76	142.89
82.29	274.66	440.60	716.35	78.44	88.26	162.62	176.94
97.55	263.22	401.09	762.13	121.92	112.57	143.32	210.18
105.99	188.56	326.70	724.52	122.44	94.99	160.31	183.21
151.50	278.75	394.28	789.65	112.10	90.53	170.60	201.18
131.61	191.83	589.10	1139.78	76.38	47.39	102.84	194.27
61.04	237.06	465.67	618.80	88.56	63.68	133.80	149.24
87.19	189.65	442.23	635.97	86.24	96.96	125.40	165.15

5.3 SOD

Norharman				Harman			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
36.18	33.28	13.52	7.43	15.89	4.93	4.72	8.93
43.69	41.07	12.52	4.94	10.49	7.83	3.33	8.29
36.51	37.09	9.09	14.37	11.17	6.63	5.18	0.82

5.4 CAT

Norharman				Harman			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
23.64	43.92	2.97	2.83	26.99	3.52	2.03	10.86
69.10	32.01	8.95	1.81	13.02	0.94	0.91	5.03
102.70	80.10	3.57	7.65	19.78	2.99	0.99	9.45

5.5 MDA

Norharman				Harman			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
1.61	2.16	15.68	433.99	7.37	15.85	3.01	81.86
1.56	6.15	7.73	122.88	6.22	21.20	6.04	29.03
4.63	2.24	10.59	332.43	7.42	26.63	11.84	56.68

6. Neurotransmitters contents and AChE activity

Ach (mg prot/mL)							
Norharman				Harman			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
137.62	233.75	215.10	750.44	369.70	167.17	153.10	227.29
214.06	277.55	523.24	394.78	266.80	213.11	134.31	151.62
159.65	146.47	262.12	287.40	240.07	227.70	128.10	131.92
DA (pg prot/mL)							
Norharman				Harman			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
0.19	0.27	0.32	0.98	0.39	0.24	0.24	0.30
0.25	0.38	0.59	0.52	0.44	0.28	0.23	0.24
0.16	0.17	0.37	0.40	0.33	0.29	0.23	0.24
AChE (U/mg prot)							
Norharman				Harman			
Control	0.05	5.00	10.00	Control	0.05	5.00	10.00
1.77	9.88	1.32	0.67	1.77	2.90	2.41	0.48
1.77	5.58	1.16	2.27	1.77	1.92	0.58	1.03
1.89	1.85	1.91	1.31	1.89	2.42	1.23	1.77

7. RNA-seq and qRT-PCR

7.1 RNA-seq (The level of DEGs (FPKM) on Pathways we were concerned about)

□	Control			Norharman		
<i>gst-14</i>	1.8896	0.7038	1.9477	8.3587	10.9278	9.4045
<i>gst-21</i>	2.0592	1.8951	1.4737	3.6602	3.5534	4.3514
<i>gst-30</i>	1.2295	1.2956	0.6236	2.7426	2.9765	2.5585
<i>gst-35</i>	6.1949	4.5106	6.4306	16.3994	15.3315	13.9362
<i>gst-44</i>	7.0359	4.2563	6.4862	14.6406	14.5048	12.324
<i>ugt-13</i>	3.5237	3.3139	3.2323	7.6949	7.7272	7.8681
<i>cyp-13A12</i>	8.4902	7.4741	8.51	20.2941	17.6544	18.8736
<i>cyp-13A8</i>	0.5662	0.8301	0.8875	18.6911	19.9579	22.1917
<i>cyp-35B2</i>	1.8027	1.1478	1.1551	0.6548	0.8985	0.5438
<i>hsp-12.1</i>	18.6392	17.8507	17.4627	6.7617	11.0061	9.8505

□	Control			Harman		
<i>ugt-8</i>	2.259	2.5128	1.2505	8.395	8.8185	8.3992
<i>ugt-13</i>	1.1441	2.2128	1.5414	13.485	9.8163	12.0458
<i>ugt-16</i>	1.4474	0.6372	1.3448	5.5235	5.2627	4.6811
<i>ugt-40</i>	0.8796	0.7296	1.0714	1.9468	1.4972	2.0748
<i>ugt-41</i>	3.6846	3.6956	3.9429	14.6894	12.6615	16.5843
<i>cyp-35A5</i>	0.2579	0.4568	0.5242	3.1772	3.4849	2.7162
<i>cyp-35B1</i>	5.1574	4.9063	5.0483	14.2597	15.2779	13.6625
<i>cyp-35B2</i>	0.5037	0.3163	0.4521	4.3655	2.9608	4.0513
<i>cyp-35B3</i>	0.1979	0.0526	0	1.0596	1.1173	0.979
<i>cyp-35C1</i>	1.4033	1.1056	1.3207	8.8315	7.35	9.3864
<i>hsp-12.3</i>	115.868	123.782	116.292	58.6125	53.9	51.585
<i>hsp-12.6</i>	169.12	146.792	172.372	84.4433	76.0826	83.5948
<i>sod-5</i>	3.8903	7.4303	6.289	3.6448	1.8884	2.8888

7.2 qRT-PCR

□	Control						Norharman					
<i>cyp-35B2</i>	0.8562	0.5098	1.3870	2.1024	0.5917	0.5529	0.7460	0.5861	0.5199	0.5918	0.2535	0.1239
<i>hsp-12.1</i>	1.7005	1.3812	0.2717	0.2816	1.1407	1.2243	0.2350	0.2728	0.3018	0.2134	1.8644	2.3018
□	Control						Harman					
<i>cyp-35B2</i>	1.1315	0.9127	0.2048	1.7510	□	□	1.6860	1.8234	3.9466	1.4556	□	□
<i>sod-5</i>	1.3495	0.7477	0.9028	□	□	□	0.2523	0.6123	0.6454	□	□	□
<i>hsp-12.3</i>	1.1303	1.3858	0.9698	1.0365	0.7910	0.6867	0.5021	0.3618	0.6105	0.5311	1.6056	1.7680
<i>hsp-12.6</i>	1.2639	1.1438	1.0988	1.0280	0.4655	□	0.5099	0.5658	0.6064	0.4918	1.9376	□