

Supplementary Information

Fig. 1 high throughput figure of worms

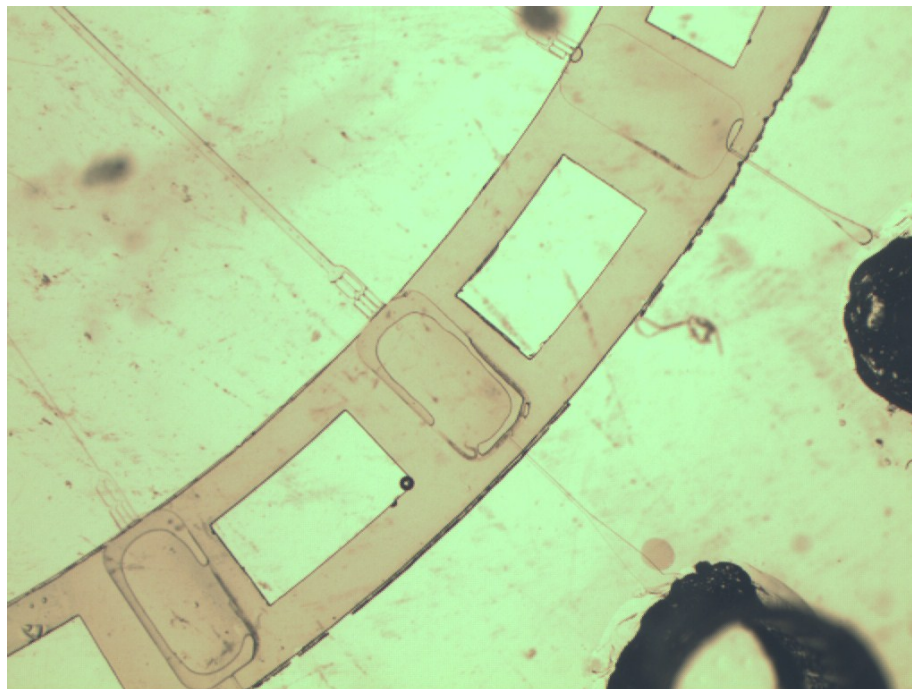


Table 1. The survival rate of N2 worms under different condition

Days	Control			100mM			200mM		
	Dead	Alive	% Alive	Dead	Alive	% Alive	Dead	Alive	% Alive
1		34	1	1	31	1	1	31	1
2		34	1	2	31	1	2	31	1
3		34	1	3	31	1	3	31	1
4		34	1	4	31	1	4	31	1
5		34	1	5	31	1	5	31	1
6		34	1	6	29	0.935484	6	31	1
7		34	1	7	26	0.83871	7	30	0.967741935
8		34	1	8	26	0.83871	8	28	0.903225806
9		34	1	9	22	0.709677	9	25	0.806451613
10	3	31	0.911765	10	22	0.709677	10	15	0.483870968
11	2	29	0.852941	11	17	0.548387	11	14	0.451612903
12	3	26	0.764706	12	14	0.451613	12	8	0.258064516
13	1	25	0.735294	13	9	0.290323	13	4	0.129032258
14	2	23	0.676471	14	3	0.096774	14	0	0
15	3	20	0.588235	15	2	0.064516	15		
16	1	19	0.558824	16	1	0.032258	16		
17	2	17	0.5	17	0	0	17		
18	6	11	0.323529	18	0	0	18		
19	5	6	0.176471	19			19		
20	3	3	0.088235	20			20		
21	3	0	0	21			21		

Table 2. The mean lifespan of N2 worms under different condition

	AVERAGE	ERROR BAR	TTEST
Control	16.17647059	3.56303062	
100mM	11.51612903	2.94245892	5.716E-08
200mM	11.24137931	1.76585011	2.72E-08

Table 4. The fluorescence of VS29 under different conditions

I/A											
0mM				100mM				200mM			
1d	3d	5d	7d	1d	3d	5d	7d	1d	3d	5d	7d
29.23496	26.09347	28.01469	23.4133	31.31962	29.42771	37.18366	20.5474	32.36065	28.18692	38.6416	27.14428
27.21227	21.09105	23.11127	21.90993	31.72653	24.64149	27.50879	31.9781	30.83155	26.46999	28.16318	27.25457
31.07541	22.98146	20.58853	23.1285	29.26595	31.95235	27.81321	23.25951	43.62045	30.49949	24.81315	24.94485
30.86692	27.37925	24.00677	21.43546	33.96785	26.60533	21.14612	26.17433	31.83975	24.43153	25.55166	25.91107
30.28427	27.97871	23.21007	22.96928	32.58503	26.88796	28.1917	21.01403	30.55348	23.49601	24.22389	25.18169
27.03734	24.02439	19.05114	18.5082	33.91212	24.2234	25.29821	27.67118	31.52267	22.68212	24.32452	26.92819
35.69506	32.22468	18.93524	26.32505	30.89457	30.59592	21.91672	25.93845	27.14687	21.94306	26.14431	24.81007
33.70572	26.0585	20.58125	26.40658	28.07515	29.68104	24.27532	24.39424	28.8132	22.84427	22.32498	28.35664
29.91013	29.42349	20.0532	19.51789	34.55302	24.86908	21.84812	21.06542	36.19432	26.58046	37.5488	24.22798
26.68485	25.50488	19.59362	24.02663	29.88922	24.67792	22.04387	23.88818	30.01381	27.2221	25.31588	22.82887
31.95244	26.0878	19.75537	19.45257	32.67388	24.52013	19.84805	22.92911	28.50138	26.07836	26.14903	27.47054
31.0742	23.05031	19.2112	23.41955	32.59901	32.63995	20.69967	28.19904	30.71063	32.08194	25.54102	35.08257
31.79699	24.30608	18.98632	27.36717	32.74746	33.7432	21.31824	23.10643	33.64856	35.96553	39.89298	28.07949
32.50629	25.63978	19.98745	20.04912	29.36509	28.25631	19.11922	20.30968	33.06819	31.46153	26.64753	22.80012
34.81011	30.83333	19.82488	20.19644	36.44404	32.57601	23.55684	23.19389	28.04966	32.12389	24.30282	25.86543
33.47669	23.59099	19.18384	23.60952	27.64517	30.75606	21.86203	23.02462	32.86831	22.21056	22.60809	25.41501
28.35422	25.05499	18.52552	19.93164	36.3253	27.26217	19.9247	22.04915	32.12461	33.72935	24.95831	21.33611
29.11168	22.13395	18.80439	23.27587	34.53774	36.15465	19.62042	23.34431	29.16525	23.96479	22.9065	23.94814
31.59269	24.94814	19.12139	20.23034	33.65268	25.33429	22.02744	23.16862	32.86319	22.84861	30.43223	27.28662
29.55602	25.36971	24.83296	26.36226	37.01132	28.73691	21.92459	20.28642	32.76623	32.69406	23.66026	21.59116
29.49966	27.13519	19.37983	23.75588	34.96614	27.64565	22.84007	20.15312	36.50211	25.75877	22.00014	24.32662
32.23436	22.80235	18.71749	22.06716	30.73285	24.77989	22.10568	20.0591	29.27302	22.80109	23.41241	19.71928
31.68853	22.34463	18.65238	19.54169	30.97642	37.77689	19.58576	21.72548	32.20184	27.82524	32.67805	19.86471
25.74684	21.83356	22.35267	18.67638	31.91005	26.02239	22.30163	21.51538	33.26793	23.39393	23.63634	19.60612
29.50065	23.09663	19.42332	23.61432	36.59458	34.63037	25.89883	34.71155	28.61076	23.6969	24.83585	21.48009
27.96455	29.22181	22.02203	18.7029	33.45135	20.42585	25.68108	31.95797	28.5036	26.96169	24.23022	23.99114
31.64053	28.26163	21.10003	22.60056	35.43767	24.44603	22.69364	28.76328	30.58698	24.59277	23.77115	24.74758
33.9244	36.5333	19.65105	30.64373	28.57602	22.10666	26.42935	23.0787	21.16433	26.68804	24.23022	23.12559
29.23496	21.29956	19.17056	26.78457	31.69321	38.30333	19.56076	20.01895	33.50812	35.48056	23.77115	19.41692
27.21499	19.36131	22.09157	30.35468	34.03791	35.79772	22.36772	19.172	31.50489	26.53474	22.01944	28.36228
22.62184	22.50475	19.82484	37.50578	33.52487	22.79246	25.34529	20.88167	29.87004	23.58018	34.67382	27.8182
32.04878	22.06974	19.38313	18.56535	31.28372	32.49536	27.71575	23.67572	32.36065	26.35445	23.37499	29.62048
30.1849	22.13325	18.59871	18.52253	31.72653	21.57748	24.76396	22.25101	28.28125	27.84943	23.36357	30.24188
30.86692	25.06372	21.47405	21.31331	29.26595	22.91889	30.65248	22.36032	30.83155	50.30717	47.68349	35.09112
30.28427	19.98044	25.99862		33.96785	38.21604	38.6416	28.65778	43.62045	29.15586	21.37954	28.62114
27.03734	22.37679	25.99365		32.58503	20.64122	28.16318	28.2455	31.83975	28.93916	25.85325	28.22247
35.69506	21.02966	20.45232		33.91212	28.397	24.81315	29.57629	30.68147	27.27423	21.34633	22.82064
21.64719	23.60469	21.36569		30.89457	22.56277	25.55166	21.14516	30.43065	23.43691	30.46631	22.93244
33.70572	19.90565	23.56588		28.07372	25.09316	24.22389	19.92357	31.52267	22.43603	21.26155	21.84974
32.2243	22.38899	24.06352		34.55302	22.3714	24.32452	21.02588	27.14687	22.28437	21.33143	24.15175
24.72676	22.66337	22.07167		29.88922	22.92301	26.14431	22.08736	28.8132	35.25164	22.88775	
26.68485	25.2151	23.24964		30.24686	20.83213	22.32498	19.95798	36.19432	24.69668	40.00644	
31.95244	20.69973	21.52361		29.73586	26.05932	37.5488	24.02287	30.01381	26.12511	20.91188	
33.1726	20.76992	21.65617		33.92555	20.73072	25.31588	40.98464	28.50138	37.79403	22.71168	
29.09629	26.5844	25.04218		30.4887	35.17052	26.14903		30.17005	29.48938	26.29865	
31.79699	30.2728	26.92279		34.12785	22.73002	25.54102		31.51246	24.5142	26.6372	
32.50629	24.15291	28.34849		30.96979	23.60558	39.89298		33.65321	24.87065	23.98526	
35.9587	28.58462	26.94102		34.24729	26.79332	26.64753		31.92728	28.49863		
33.61801	20.75281			29.36509	35.65861	24.30282		34.05332	22.12761		
33.37497	20.02741			36.44406	19.78538	22.60809		29.80411	26.77381		
28.82003	37.81176			27.64517	40.85843	24.95831		32.86831	26.29782		
29.11168	23.06705			36.3253	33.62655			32.12461			
31.59269	36.6495			34.53774	28.67188			29.16525			
29.55602	21.78213			33.65268				32.86319			
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