

The DATA AVAILABLE STAMENTS:

(According to Plos One policy)

Points:

- 1.- SUMMARY STATISTIC of experiments
- 2.- DATA POINTS BEHIND MEANS
- 3.- MEDIANS
- 4.- VARIANCE MEASURES

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Figure 2 :

Fig. 2 E. Average branch length

(A) RAW DATA

MEAN	SEM	N	MEAN	SEM	N	MEAN	SEM	N	MEAN	SEM	N
0	0	0	10	10	10	20	20	20	50	50	50
4,076923	1,909697	13	32,06538	2,946563	13	69,41615	9,464513	13	52,30846	6,512528	13
3,846154	1,746227	13	50,542	6,122102	10	75,37308	8,02756	13	59,73231	9,548361	13
5,538462	1,910213	13	30,57462	5,849475	13	71,63	10,53237	7	103,2831	13,20914	13

(B) ANOVA Analysis

Repeated measures ANOVA summary					
Assume sphericity?	No				
F	16,31				
P value	0,0003				
P value summary	***				
Statistically significant (P < 0.05)?	Yes				
Geisser-Greenhouse's epsilon	0,4829				
R square	0,5762				
Was the matching effective?					
F	0,1929				
P value	0,998				
P value summary	ns				
Is there significant matching (P < 0.05)?	No				
R square	0,02652				
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	28862	3	9621	F (1,449, 17,39) = 16,31	P = 0,0003
Individual (between rows)	1365	12	113,7	F (12, 36) = 0,1929	P = 0,9980
Residual (random)	21230	36	589,7		
Total	51457	51			

Data summary					
Number of treatments (columns)	4				
Number of subjects (rows)	13				

(C) Comparison

Compare column means (main column effect)	
Number of families	1
Number of comparisons per family	6
Alpha	0,05

Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary
0 vs. 10	-32,17	-47,56 to -16,79	Yes	****
0 vs. 20	-67,75	-83,49 to -52,00	Yes	****
0 vs. 50	-67,29	-82,36 to -52,21	Yes	****
10 vs. 20	-35,57	-51,62 to -19,53	Yes	****
10 vs. 50	-35,12	-50,50 to -19,73	Yes	****
20 vs. 50	0,4578	-15,29 to 16,20	No	ns

Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	N1	N2	q	DF
0 vs. 10	4,487	36,66	-32,17	5,915	39	36	7,692	135
0 vs. 20	4,487	72,23	-67,75	6,053	39	33	15,83	135
0 vs. 50	4,487	71,77	-67,29	5,796	39	39	16,42	135
10 vs. 20	36,66	72,23	-35,57	6,168	36	33	8,156	135
10 vs. 50	36,66	71,77	-35,12	5,915	36	39	8,395	135
20 vs. 50	72,23	71,77	0,4578	6,053	33	39	0,107	135

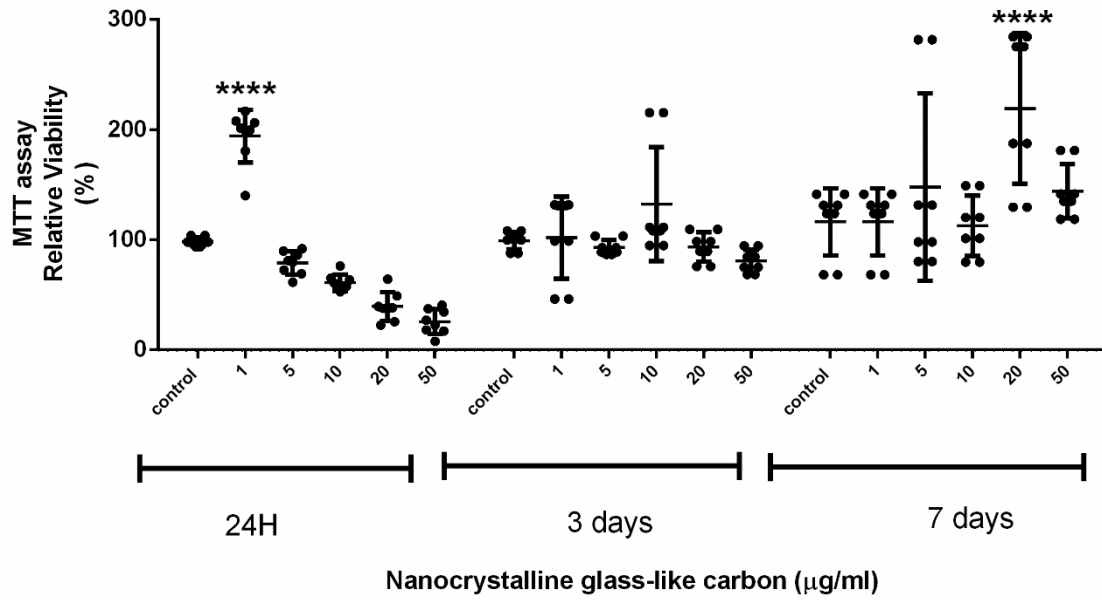
(D) Two-way ANOVA analysis

Two-way ANOVA	Ordinary				
Alpha	0,05				
Source of Variation	% of total variation	P value	P value summary	Significant?	
Interaction	7,685	0,0003	***	Yes	
Row Factor	1,854	0,0416	*	Yes	
Column Factor	50,51	< 0,0001	****	Yes	
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Interaction	17676	6	2946	F (6, 135) = 4,498	P = 0,0003
Row Factor	4264	2	2132	F (2, 135) = 3,255	P = 0,0416
Column Factor	116180	3	38727	F (3, 135) = 59,13	P < 0,0001
Residual	88423	135	655		
Number of missing values		9			

Figure 3.

Figure 3. A. MTT Assay

Figure 3 A. Figure MTT Assay



(A) Raw data

	24h			3days			7days		
	MEAN	SEM	N	MEAN	SEM	N	MEAN	SEM	N
control	98,26897	1,372357	8	99,22726	2,771767	8	116,2627	10,72751	8
1	194,0968	8,510856	8	102,0682	13,18118	8	116,2627	10,72751	8
5	79,02796	3,731295	8	93,02271	2,416775	8	147,9425	30,02064	8
10	61,07412	2,649979	8	132,4772	18,26153	8	112,6832	9,661859	8
20	39,43631	4,616852	8	93,4091	4,682454	8	219,3066	24,22078	8
50	25,65468	4,005649	8	80,63636	3,701685	8	144,1939	8,716076	8

(B) Statistical Analysis

Two-way ANOVA	Ordinary			
Alpha	0,05			
Source of Variation	% of total variation	P value	P value summary	Significant?
Interaction	40,36	< 0,0001	****	Yes
Row Factor	8,38	< 0,0001	****	Yes
Column Factor	19,84	< 0,0001	****	Yes

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Interaction	185370	10	18537	F (10, 126) = 16,19	P < 0,0001
Row Factor	38487	5	7697	F (5, 126) = 6,722	P < 0,0001
Column Factor	91135	2	45568	F (2, 126) = 39,80	P < 0,0001
Residual	144277	126	1145		
Number of missing values	0				

(C) Multiple Comparison

Within each column, compare rows (simple effects within columns)				
Number of families	3			
Number of comparisons per family	15			
Alpha	0,05			
Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary

24h				
control vs. 1	-95,83	-144,8 to -46,86	Yes	****
control vs. 5	19,24	-29,72 to 68,21	No	ns
control vs. 10	37,19	-11,77 to 86,16	No	ns
control vs. 20	58,83	9,867 to 107,8	Yes	**
control vs. 50	72,61	23,65 to 121,6	Yes	***
1 vs. 5	115,1	66,10 to 164,0	Yes	****
1 vs. 10	133	84,06 to 182,0	Yes	****
1 vs. 20	154,7	105,7 to 203,6	Yes	****
1 vs. 50	168,4	119,5 to 217,4	Yes	****
5 vs. 10	17,95	-31,01 to 66,92	No	ns
5 vs. 20	39,59	-9,374 to 88,56	No	ns
5 vs. 50	53,37	4,408 to 102,3	Yes	*
10 vs. 20	21,64	-27,33 to 70,60	No	ns
10 vs. 50	35,42	-13,55 to 84,38	No	ns
20 vs. 50	13,78	-35,18 to 62,75	No	ns

3days				
control vs. 1	-2,841	-51,81 to 46,12	No	ns
control vs. 5	6,205	-42,76 to 55,17	No	ns
control vs. 10	-33,25	-82,22 to 15,72	No	ns
control vs. 20	5,818	-43,15 to 54,78	No	ns
control vs. 50	18,59	-30,37 to 67,56	No	ns
1 vs. 5	9,045	-39,92 to 58,01	No	ns
1 vs. 10	-30,41	-79,37 to 18,56	No	ns
1 vs. 20	8,659	-40,31 to 57,62	No	ns
1 vs. 50	21,43	-27,53 to 70,40	No	ns
5 vs. 10	-39,45	-88,42 to 9,511	No	ns
5 vs. 20	- 0,3864	-49,35 to 48,58	No	ns
5 vs. 50	12,39	-36,58 to 61,35	No	ns
10 vs. 20	39,07	-9,897 to 88,03	No	ns
10 vs. 50	51,84	2,875 to 100,8	Yes	*
20 vs. 50	12,77	-36,19 to 61,74	No	ns

7days				
control vs. 1	0	-48,97 to 48,97	No	ns
control vs. 5	-31,68	-80,65 to 17,29	No	ns
control vs. 10	3,579	-45,39 to 52,54	No	ns
control vs. 20	-103	-152,0 to - 54,08	Yes	****
control vs. 50	-27,93	-76,90 to 21,03	No	ns
1 vs. 5	-31,68	-80,65 to 17,29	No	ns
1 vs. 10	3,579	-45,39 to 52,54	No	ns
1 vs. 20	-103	-152,0 to - 54,08	Yes	****

1 vs. 50	-27,93	-76,90 to 21,03	No	ns
5 vs. 10	35,26	-13,71 to 84,22	No	ns
5 vs. 20	-71,36	-120,3 to -22,40	Yes	***
5 vs. 50	3,749	-45,22 to 52,71	No	ns
10 vs. 20	-106,6	-155,6 to -57,66	Yes	****
10 vs. 50	-31,51	-80,48 to 17,45	No	ns
20 vs. 50	75,11	26,15 to 124,1	Yes	***

Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	N1	N2	q	DF
24h								
control vs. 1	98,27	194,1	-95,83	16,92	8	8	8,01	126
control vs. 5	98,27	79,03	19,24	16,92	8	8	1,608	126
control vs. 10	98,27	61,07	37,19	16,92	8	8	3,109	126
control vs. 20	98,27	39,44	58,83	16,92	8	8	4,918	126
control vs. 50	98,27	25,65	72,61	16,92	8	8	6,07	126
1 vs. 5	194,1	79,03	115,1	16,92	8	8	9,618	126
1 vs. 10	194,1	61,07	133	16,92	8	8	11,12	126
1 vs. 20	194,1	39,44	154,7	16,92	8	8	12,93	126
1 vs. 50	194,1	25,65	168,4	16,92	8	8	14,08	126
5 vs. 10	79,03	61,07	17,95	16,92	8	8	1,501	126
5 vs. 20	79,03	39,44	39,59	16,92	8	8	3,309	126
5 vs. 50	79,03	25,65	53,37	16,92	8	8	4,461	126
10 vs. 20	61,07	39,44	21,64	16,92	8	8	1,809	126
10 vs. 50	61,07	25,65	35,42	16,92	8	8	2,961	126
20 vs. 50	39,44	25,65	13,78	16,92	8	8	1,152	126

3days								
control vs. 1	99,23	102,1	-2,841	16,92	8	8	0,2375	126
control vs. 5	99,23	93,02	6,205	16,92	8	8	0,5186	126
control vs. 10	99,23	132,5	-33,25	16,92	8	8	2,779	126
control vs. 20	99,23	93,41	5,818	16,92	8	8	0,4863	126
control vs. 50	99,23	80,64	18,59	16,92	8	8	1,554	126

1 vs. 5	102,1	93,02	9,045	16,92	8	8	0,7561	126
1 vs. 10	102,1	132,5	-30,41	16,92	8	8	2,542	126
1 vs. 20	102,1	93,41	8,659	16,92	8	8	0,7238	126
1 vs. 50	102,1	80,64	21,43	16,92	8	8	1,791	126
5 vs. 10	93,02	132,5	-39,45	16,92	8	8	3,298	126
5 vs. 20	93,02	93,41	-0,3864	16,92	8	8	0,0323	126
5 vs. 50	93,02	80,64	12,39	16,92	8	8	1,035	126
10 vs. 20	132,5	93,41	39,07	16,92	8	8	3,266	126
10 vs. 50	132,5	80,64	51,84	16,92	8	8	4,333	126
20 vs. 50	93,41	80,64	12,77	16,92	8	8	1,068	126

7days								
control vs. 1	116,3	116,3	0	16,92	8	8	0	126
control vs. 5	116,3	147,9	-31,68	16,92	8	8	2,648	126
control vs. 10	116,3	112,7	3,579	16,92	8	8	0,2992	126
control vs. 20	116,3	219,3	-103	16,92	8	8	8,613	126
control vs. 50	116,3	144,2	-27,93	16,92	8	8	2,335	126
1 vs. 5	116,3	147,9	-31,68	16,92	8	8	2,648	126
1 vs. 10	116,3	112,7	3,579	16,92	8	8	0,2992	126
1 vs. 20	116,3	219,3	-103	16,92	8	8	8,613	126
1 vs. 50	116,3	144,2	-27,93	16,92	8	8	2,335	126
5 vs. 10	147,9	112,7	35,26	16,92	8	8	2,947	126
5 vs. 20	147,9	219,3	-71,36	16,92	8	8	5,965	126
5 vs. 50	147,9	144,2	3,749	16,92	8	8	0,3133	126
10 vs. 20	112,7	219,3	-106,6	16,92	8	8	8,912	126
10 vs. 50	112,7	144,2	-31,51	16,92	8	8	2,634	126
20 vs. 50	219,3	144,2	75,11	16,92	8	8	6,278	126

Figure 3 B. Analysis of Relative PH3 protein expression % after 24 h

(A) Raw data

	control	NGLC-50
Number of values	3	3
Minimum	100	38,45
25% Percentile	100	38,45
Median	100	68,29
75% Percentile	100	82,59
Maximum	100	82,59

Mean	100	63,11
Std. Deviation	0	22,53
Std. Error of Mean	0	13
Sum	300	189,3

(B) Statistical Analysis: Non parametric Test (T)

Column B	NGLC-50
vs.	vs,
Column A	Control
Unpaired t test	
P value	0,047
P value summary	*
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=2,837 df=4

How big is the difference?

Mean \pm SEM of column A	100,0 \pm 0,0 N=3
Mean \pm SEM of column B	63,11 \pm 13,00 N=3
Difference between means	-36,89 \pm 13,00
95% confidence interval	-73,00 to -0,7830
R square	0,668

(A) Analysis of Relative SMP30 protein expression after 24H

Table Analyzed	SMP30 -24H
Column B	NGLC
vs.	vs,
Column A	CONTROL

Paired t test	
P value	0,0362
P value summary	*
Significantly different? (P < 0.05)	Yes

One- or two-tailed P value?	Two-tailed
t, df	t=5,114 df=2
Number of pairs	3

How big is the difference?

Mean of differences	698,7
SD of differences	236,6
SEM of differences	136,6
95% confidence interval	110,9 to 1286
R square	0,929

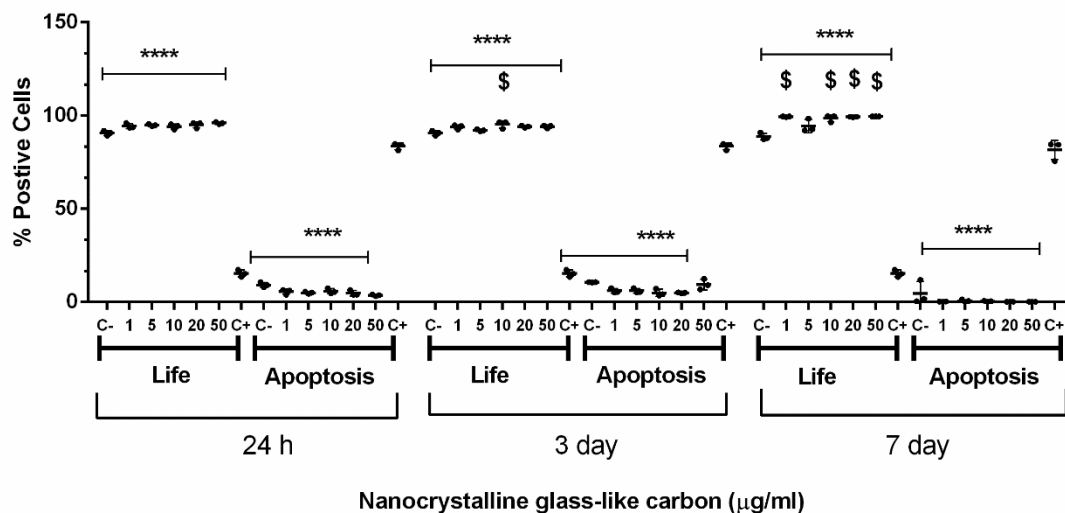
How effective was the pairing?

Correlation coefficient (r)	-0,9977
P value (one tailed)	0,0214
P value summary	*
Significant correlation? (P > 0.05)	No

Figure 3 B. Analysis of Relative PH3 protein expression % after 7days.

Column B	NGLC-50
vs.	vs,
Column A	Control
Unpaired t test	
P value	0,217
P value summary	ns
Significantly different? (P < 0.05)	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,464 df=4
How big is the difference?	
Mean ± SEM of column A	100,0 ± 0,0 N=3
Mean ± SEM of column B	127,7 ± 18,90 N=3
Difference between means	27,68 ± 18,90
95% confidence interval	-24,81 to 80,16
R square	0,3489
F test to compare variances	
F,DFn, Dfd	
P value	
P value summary	
Significantly different? (P < 0.05)	

Figure 4. Analysis of Cytotoxicity



(A) Raw data

LIVE CELLS	C-	1	5	10	20	50	C+
Number of values	3	3	3	3	3	3	3
Minimum	88,77	93,89	92,13	94,11	94,15	94,14	15,35
25% Percentile	88,77	93,89	92,13	94,11	94,15	94,14	15,35
Median	90,67	94,45	94,38	95,26	95,03	96,09	15,35
75% Percentile	90,67	99,47	94,95	98,66	99,35	99,56	15,35
Maximum	90,67	99,47	94,95	98,66	99,35	99,56	15,35
Mean	90,04	95,94	93,82	96,01	96,18	96,59	15,35
Std. Deviation	1,097	3,072	1,491	2,366	2,783	2,745	0
Std. Error of Mean	0,6333	1,773	0,8609	1,366	1,606	1,585	0
Sum	270,1	287,8	281,5	288	288,5	289,8	46,06

DEAD CELLS

	C-	1	5	10	20	50	C+
Number of values	3	3	3	3	3	3	3
Minimum	4,687	0,2067	0,7233	0,4333	0,2	0,1867	81,53
25% Percentile	4,687	0,2067	0,7233	0,4333	0,2	0,1867	81,53
Median	9,23	5,51	4,98	4,947	4,75	3,647	83,52
75% Percentile	10,66	6,063	6,063	5,837	4,987	9,43	83,52
Maximum	10,66	6,063	6,063	5,837	4,987	9,43	83,52
Mean	8,192	3,927	3,922	3,739	3,312	4,421	82,86

Std. Deviation	3,119	3,233	2,823	2,897	2,698	4,67	1,145
Std. Error of Mean	1,801	1,867	1,63	1,673	1,558	2,696	0,6611
Sum	24,58	11,78	11,77	11,22	9,937	13,26	248,6

(B) ANOVA Aanalysis

Table Analyzed	Data 1
Two-way ANOVA	Ordinary
Alpha	0,05

Source of Variation	% of total variation	P value	P value summary	Significant?
Interaction	0,2343	< 0,0001	****	Yes
Row Factor	0,01594	0,0055	**	Yes
Column Factor	99,63	< 0,0001	****	Yes

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Interaction	565,6	26	21,75	F (26, 84) = 6,271	P < 0,0001
Row Factor	38,47	2	19,23	F (2, 84) = 5,544	P = 0,0055
Column Factor	240499	13	18500	F (13, 84) = 5333	P < 0,0001
Residual	291,4	84	3,469		
Number of missing values	0				

(C) Multiple Comparison

Figure 5

Figure 5 A.- PCNA analysis

(A) Raw data

	Control	NGLC (50mg/ml)
Number of values	6	6
Minimum	1	1,576
25% Percentile	1	2,975
Median	1	3,968
75% Percentile	1	4,819
Maximum	1	4,962
Mean	1	3,781
Std. Deviation	0	1,23
Std. Error of Mean	0	0,5023
Lower 95% CI of mean	1	2,49
Upper 95% CI of mean	1	5,072
Sum	6	22,69

(B) Statistical Analysis

Table Analyzed	PCNA
Column B	NGLC (50mg/ml)
vs.	vs,
Column A	Control

Unpaired t test	
P value	0,0002
P value summary	***
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=5,537 df=10

How big is the difference?	
Mean ± SEM of column A	1,000 ± 0,0 N=6
Mean ± SEM of column B	3,781 ± 0,5023 N=6
Difference between means	2,781 ± 0,5023

95% confidence interval	1,662 to 3,900
R square	0,7541
F test to compare variances	
F,DFn, Dfd	
P value	
P value summary	
Significantly different? (P < 0.05)	

Figure 5 B. TH analysis

	control	NGLC-50
Number of values	6	6
Minimum	100	226,5
25% Percentile	100	226,5
Median	100	373,4
75% Percentile	100	439,6
Maximum	100	439,6
Mean	100	346,5
Std. Deviation	0	109
Std. Error of Mean	0	62,96
Lower 95% CI of mean	100	75,64
Upper 95% CI of mean	100	617,4
Sum	300	1040

Table Analyzed	TH
Column B	NGLC-50
vs.	vs,
Column A	control

Unpaired t test	
P value	0,0173
P value summary	*
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3,916 df=4

How big is the difference?	
Mean ± SEM of column A	100,0 ± 0,0 N=3

Mean \pm SEM of column B	346,5 \pm 62,96 N=3
Difference between means	246,5 \pm 62,96
95% confidence interval	71,72 to 421,3
R square	0,7931
F test to compare variances	
F,DFn, Dfd	
P value	
P value summary	
Significantly different? (P < 0.05)	

Figure 7 : figure 7 F.

	control	5 nm	20 nm	80 nm	BTTN
Number of values	9	9	9	9	6
Minimum	0	0,4	0,66	0,535	-0,001
25% Percentile	0	0,6185	0,745	0,7775	-0,0003
Median	0	0,7	0,862	0,826	0,299
75% Percentile	0	0,91	0,9705	0,852	0,4355
Maximum	0	0,933	0,995	0,876	0,656
Mean	0	0,7428	0,8578	0,7928	0,2692
Std. Deviation	0	0,1843	0,126	0,103	0,2472
Std. Error of Mean	0	0,06143	0,04201	0,03434	0,1009
Lower 95% CI of mean	0	0,6011	0,7609	0,7136	0,00976
Upper 95% CI of mean	0	0,8844	0,9547	0,872	0,5286
Sum	0	6,685	7,72	7,135	1,615

(B) ANOVA summary

F	57,59
P value	< 0,0001
P value summary	****
Are differences among means statistically significant? (P < 0.05)	Yes
R square	0,8616
Brown-Forsythe test	
F (DFn, DFd)	4,110 (4, 37)
P value	0,0074
P value summary	**
Significantly different standard deviations? (P < 0.05)	Yes

Bartlett's test	
Bartlett's statistic (corrected)	
P value	< 0,0001
P value summary	****

Significantly different standard deviations? (P < 0.05)	Yes
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ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	4,913	4	1,228	F (4, 37) = 57,59	P < 0,0001
Residual (within columns)	0,7891	37	0,02133		
Total	5,702	41			
Data summary					
Number of treatments (columns)	5				
Number of values (total)	42				

(C) Anova Analysis : Multiple Comparison

Number of families	1			
Number of comparisons per family	10			
Alpha	0,05			
Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary
control vs. 5 nm	-0,7428	-0,9401 to -0,5454	Yes	****
control vs. 20 nm	-0,8578	-1,055 to -0,6604	Yes	****
control vs. 80 nm	-0,7928	-0,9901 to -0,5954	Yes	****
control vs. BTTN	-0,2692	-0,4898 to -0,04850	No	ns
5 nm vs. 20 nm	-0,115	-0,3124 to 0,08237	No	ns
5 nm vs. 80 nm	-0,05	-0,2474 to 0,1474	No	ns
5 nm vs. BTTN	0,4736	0,2529 to 0,6943	Yes	****
20 nm vs. 80 nm	0,065	-0,1324 to 0,2624	No	ns
20 nm vs. BTTN	0,5886	0,3679 to 0,8093	Yes	****
80 nm vs. BTTN	0,5236	0,3029 to 0,7443	Yes	****

Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q	DF
control vs. 5 nm	0	0,7428	-0,7428	0,06884	9	9	15,26	37
control vs. 20 nm	0	0,8578	-0,8578	0,06884	9	9	17,62	37
control vs. 80 nm	0	0,7928	-0,7928	0,06884	9	9	16,29	37
control vs. BTTN	0	0,2692	-0,2692	0,07697	9	6	4,945	37
5 nm vs. 20 nm	0,7428	0,8578	-0,115	0,06884	9	9	2,362	37
5 nm vs. 80 nm	0,7428	0,7928	-0,05	0,06884	9	9	1,027	37
5 nm vs. BTTN	0,7428	0,2692	0,4736	0,07697	9	6	8,702	37
20 nm vs. 80 nm	0,8578	0,7928	0,065	0,06884	9	9	1,335	37
20 nm vs. BTTN	0,8578	0,2692	0,5886	0,07697	9	6	10,81	37
80 nm vs. BTTN	0,7928	0,2692	0,5236	0,07697	9	6	9,62	37

Number of families	1
Number of comparisons per family	10
Alpha	0,05

Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary
control vs. 5 nm	-0,7428	-0,9401 to -0,5454	Yes	****
control vs. 20 nm	-0,8578	-1,055 to -0,6604	Yes	****
control vs. 80 nm	-0,7928	-0,9901 to -0,5954	Yes	****
control vs. BTTN	-0,2692	-0,4898 to -0,04850	Yes	*
5 nm vs. 20 nm	-0,115	-0,3124 to 0,08237	No	ns
5 nm vs. 80 nm	-0,05	-0,2474 to 0,1474	No	ns
5 nm vs. BTTN	0,4736	0,2529 to 0,6943	Yes	****
20 nm vs. 80 nm	0,065	-0,1324 to 0,2624	No	ns
20 nm vs. BTTN	0,5886	0,3679 to 0,8093	Yes	****
80 nm vs. BTTN	0,5236	0,3029 to 0,7443	Yes	****

Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q	DF

control vs. 5 nm	0	0,7428	-0,7428	0,06884	9	9	15,26	37
control vs. 20 nm	0	0,8578	-0,8578	0,06884	9	9	17,62	37
control vs. 80 nm	0	0,7928	-0,7928	0,06884	9	9	16,29	37
control vs. BTTN	0	0,2692	-0,2692	0,07697	9	6	4,945	37
5 nm vs. 20 nm	0,7428	0,8578	-0,115	0,06884	9	9	2,362	37
5 nm vs. 80 nm	0,7428	0,7928	-0,05	0,06884	9	9	1,027	37
5 nm vs. BTTN	0,7428	0,2692	0,4736	0,07697	9	6	8,702	37
20 nm vs. 80 nm	0,8578	0,7928	0,065	0,06884	9	9	1,335	37
20 nm vs. BTTN	0,8578	0,2692	0,5886	0,07697	9	6	10,81	37
80 nm vs. BTTN	0,7928	0,2692	0,5236	0,07697	9	6	9,62	37

Figure SS1

(A) Raw data

concentration (µg/ml)	0	10	20	50
Number of values	39	36	33	39

Minimum	0	15,7	25,85	18
25% Percentile	0	22,19	46,15	45
Median	0	32,18	73,91	65
75% Percentile	10	48,97	91,24	94,4
Maximum	21	90,81	138,9	181,7

Mean	5,462	36,66	72,23	73,54
Std. Deviation	6,966	19,09	30,06	42,2
Std. Error of Mean	1,115	3,181	5,233	6,757

Lower 95% CI of mean	3,204	30,2	61,57	59,86
Upper 95% CI of mean	7,719	43,12	82,89	87,22
Sum	213	1320	2384	2868

(B) Statistic Analysis

Table Analyzed	AVERAGE BRANCH LENGTH
ANOVA summary	
F	51,24
P value	< 0,0001
P value summary	****

Are differences among means statistically significant? (P < 0.05)	Yes
R square	0,5181

Brown-Forsythe test	
F (DFn, DFd)	15,31 (3, 143)
P value	< 0,0001
P value summary	****
Significantly different standard deviations? (P < 0.05)	Yes

Bartlett's test	
Bartlett's statistic (corrected)	94,54
P value	< 0,0001
P value summary	****
Significantly different standard deviations? (P < 0.05)	Yes

ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	119511	3	39837	F (3, 143) = 51,24	P < 0,0001
Residual (within columns)	111175	143	777,4		
Total	230686	146			

(C) Multiple Comparison test

Number of families	1	
Number of comparisons per family	3	
Alpha	0,05	

Dunnett's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant?	Summary
0 vs. 10	-31,2	-46,50 to -15,90	Yes	****
0 vs. 20	-66,77	-82,43 to -51,11	Yes	****
0 vs. 50	-68,08	-83,07 to -53,08	Yes	****

Test details	Mean 1	Mean 2	Mean Diff,	SE of diff,	n1	n2	q	DF
0 vs. 10	5,462	36,66	-31,2	6,444	39	36	4,841	143

0 vs. 20	5,462	72,23	-66,77	6,595	39	33	10,12	143
0 vs. 50	5,462	73,54	-68,08	6,314	39	39	10,78	143