Broccoli Seed Experiment 3 mags

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Kayna posted 2 experiments using the Bengston Method of Energy Healing® to influence the growth of results.
In this 3rd round there will be 4 broccoli seed experiments running at the same time, 2 with remote influencers, 2 local experiments; one where I will treat one dish with treated cotton, one with a commercially available homeopathic solution and the 3rd as an untreated control, the other with 2 magnets of various strengths and an untreated control.
See Discussion at end of report for results.

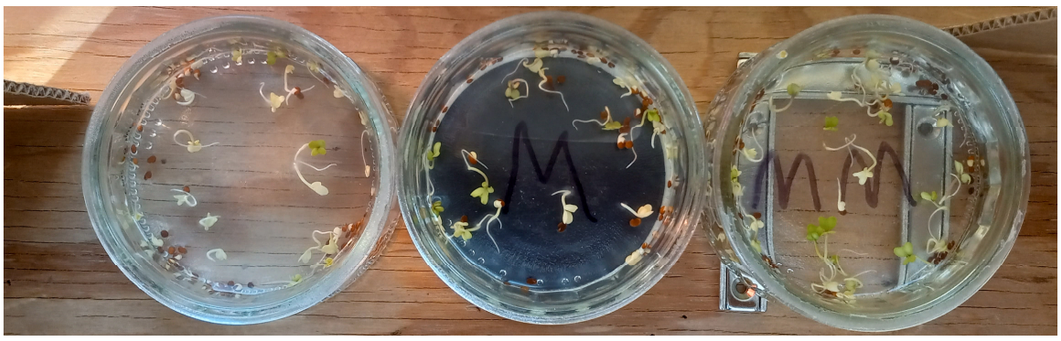
Setup. The magnet that I used in the previous experiment was a cheap refrigerator magnet from the dollar store which has a magnetic field rated at 10-50 gauss, earth's magnetic field is 0.5 gauss. I just purchased a really strong neodymium, rare-earth magnet that's rated at 1,000 gauss. So I'm going to have an untreated control (X) and compare it to a cheap refrigerator magnet (M) and a neodymium magnet (MM).
All 3 dishes will be filled and topped off with untreated water from the same container, from the same source, the same water as will be used in jmer's experiment.
This will also give me 4 untreated controls each being tested at the same time with the same conditions. In theory, they should all grow the same.

Day 1:

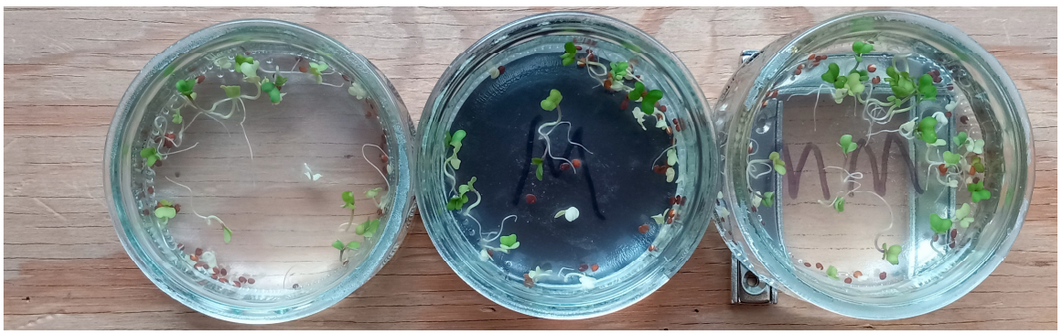
Day 2:

Day 4:

Day 6: MM clearly showing enhanced growth.

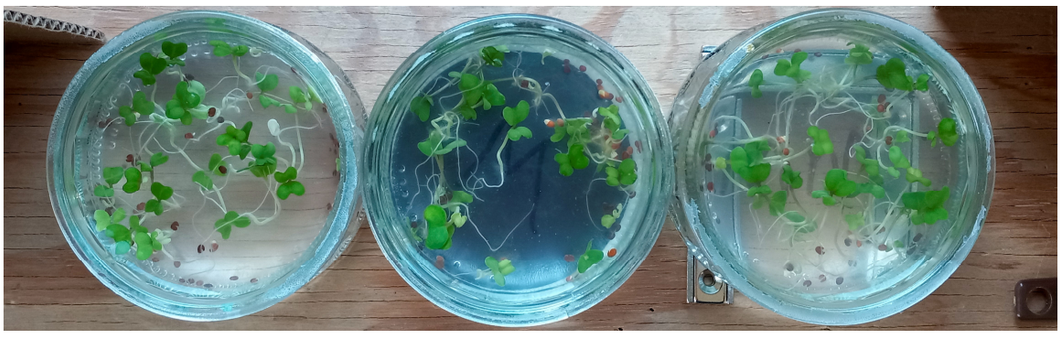


Day 8:



Day 10:

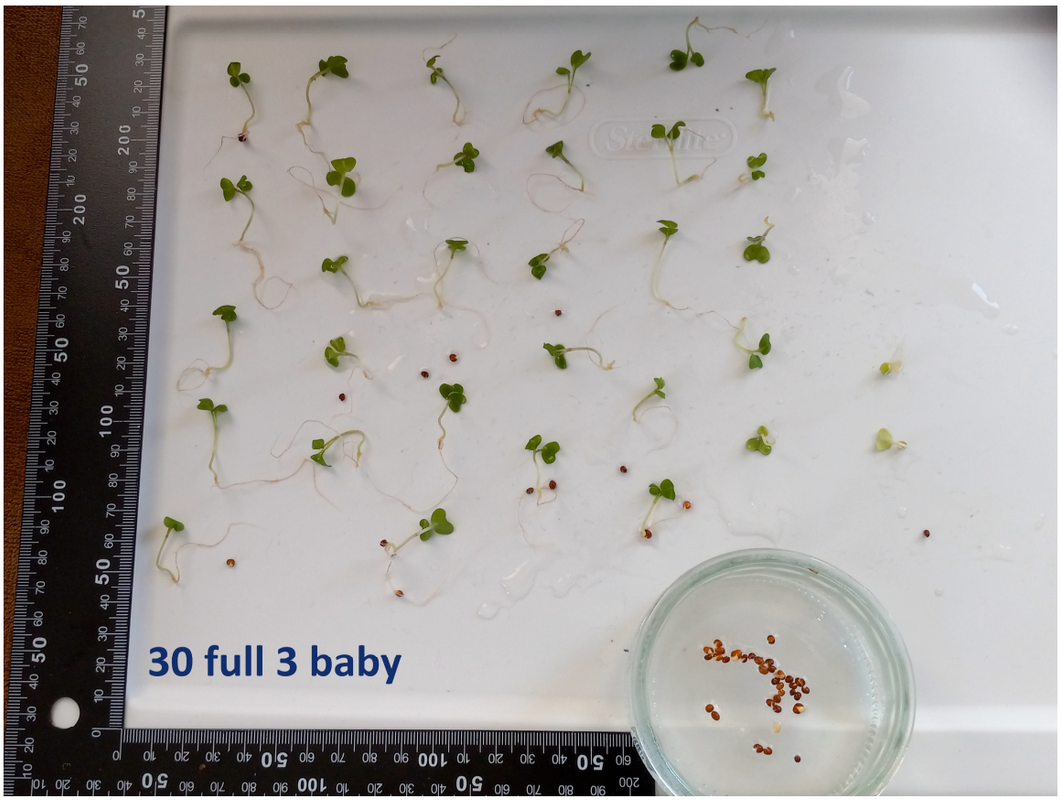
Day 13: Whereas MM showed enhanced growth in the beginning, now it seems as if all 3 have equaled out.



Day 17:

Day 19 Final Tally:

mags X:



mags M:

mags MM:

Discussion and statistics:

The previous experiment using refrigerator magnets (M), in line with Kayna's results, showed that the magnets inhibited the growth of the seeds. We theorized that a stronger magnet (MM) would inhibit the growth even more. However, although early in the experiment MM actually showed enhanced growth, the growth between the 3 seemed to have balanced out. But when the numbers were tallied, M surpised us.

Comparing mags

	Total Sprouts	Unsprouted	Total		Full Sprouts	Other	Total	
mags X	33	17	50	**mags X**	30	20	50	
mags MM	31	19	50	**mags MM**	31	19	50	
Total	64	36	100	**Total**	61	39	100	
	expected				expected			
	32.00	18.00			30.50	19.50		
	(O-E)^2/E				(O-E)^2/E			
	0.03	0.06	X^2 =	0.17	0.01	0.01	X^2 =	0.04
	0.03	0.06	**p value =**	**0.677**	0.01	0.01	**p value =**	**0.838**

M, in line with the previous experiment, once again showed inhibited growth of the seeds with the fewest seeds sprouting of all 10 dishes. Although the results were not significant, they wre leaning in the right direction.

	Total Sprouts	Unsprouted	Total		Full Sprouts	Other	Total	
mags X	33	17	50	**mags X**	30	20	50	
mags M	28	22	50	**mags M**	25	25	50	
Total	61	39	100	**Total**	55	45	100	
	expected				expected			
	30.50	19.50			27.50	22.50		
	(O-E)^2/E				(O-E)^2/E			
	0.20	0.32	X^2 =	1.05	0.23	0.28	X^2 =	1.01
	0.20	0.32	**p value =**	**0.305**	0.23	0.28	**p value =**	**0.315**

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Although results were not significant, both magnets inhibited growth, contrary to the way they looked early on when they showed enhanced growth.

Comparing all 3 mags

	Total Sprouts	Unsprouted	Total		Full Sprouts	Unfull	Total	
mags X	33	17	50	**mags X**	30	20	50	
mags MM	31	19	50	**mags MM**	31	19	50	
mags M	28	22	50	**mags M**	25	25	50	
Total	92	58	150	**Total**	86	64	150	
	expected				expected			
	30.67	19.33			28.67	21.33		
	(O-E)^2/E				(O-E)^2/E			
mags X	0.18	0.28			0.06	0.08		
mags MM	0.00	0.01	X^2 =	1.07	0.19	0.26	X^2 =	1.69
mags M	0.23	0.37	**p value =**	**0.586**	0.47	0.63	**p value =**	**0.430**

Although results were not significant with M, they were leaning in the right direction and replicated the inhibited growth from the previous experiment. Was it the weak magnet that inhibited the growth, or the black color of the magnet? Another experiment is needed.

Comparing M to 2 known controls

	Total Sprouts	Unsprouted	Total		Full Sprouts	Other	Total	
vic X + mags X	65	35	100	**X + X**	59	41	100	
mags M	28	22	50	**mags M**	25	25	50	
Total	93	57	150	**Total**	84	66	150	
	expected				expected			
	62.00	38.00			56.00	44.00		
	31.00	19.00			28.00	22.00		
	(O-E)^2/E				(O-E)^2/E			
	0.15	0.24	X^2 =	1.15	0.16	0.20	X^2 =	1.10
	0.29	0.47	**p value =**	**0.284**	0.32	0.41	**p value =**	**0.295**

Combining both experiments that used refrigerator magnets, results are leaning in the right direction, though not significant. Further attempts at replication are needed.

Comparing refrigerator magnets with past experiments

	Total Sprouts	Unsprouted	Total		Full Sprouts	Other	Total	
X2	38	12	50	**X2**	31	19	50	
M2	32	18	50	**M2**	27	23	50	
Total	70	30	100	**Total**	58	42	100	
	Total Sprouts	**Unsprouted**	**Total**		**Full Sprouts**	**Other**	**Total**	
X2 + mags X	71	29	100	X2 + mags X	61	39	100	
M2 + M	60	40	100	**M2 + M**	52	48	100	
Total	131	69	200	**Total**	113	87	200	
	expected				expected			
	65.50	34.50			56.50	43.50		
	(O-E)^2/E				(O-E)^2/E			
	0.46	0.88	X^2 =	2.68	0.36	0.47	X^2 =	1.65
	0.46	0.88	**p value =**	**0.102**	0.36	0.47	**p value =**	**0.199**