

### Supplementary Materials

Table S1. Electric field as seed priming method and germination percentages in each secondary stages every day for basil

Secondary Stages	Days												
	1	2	3	4	5	6	7	8	9	10	11	12	13
00	13.75	10.25	10.25	10.25	8.75	8.5	7.25	7	6.5	6.5	6.5	6.5	6.5
01	21.5	16.75	5	2.75									
03	60.75	39.25	6	3	4	1.25	1		0.25				
05	4	22.5	4.5	1.75	1.75	1	0.25	0.75	0.75	0.25			
06a		8.25	5.5	3.25	1.25	0.5	0.5	0.5		0.25			
06b		3	11.25	5	0.5	0.75					0.5		
06c			26.75	5	1.5	0.25		0.5	0.5				
07			27.75	26.75	6.25	1.75	1.25		0.25	0.75			
08			1.75	32.75	29.5	10.75	4	0.5	0.25	0.25			
09a			1.25	9.5	41	40.25	17.25	12.25	10	5.5	0.25	0.25	
09b					5.5	35	68.5	78.5	81.5	86	93.25	93.25	93.5

Note: values below 1% were excluded the regular development pattern; blue <5%, green 5-50%, red >50%

Table S2. Magnetic field as seed priming method and germination percentages in each secondary stages every day for basil

Secondary Stages	Days												
	1	2	3	4	5	6	7	8	9	10	11	12	13
00	13.5	11.5	9.5	9.5	9.5	8.25	8	8	8	7	7.75	7.75	7.75
01	37	16.5	0.75	0.75									
03	49.5	26.75	7.75	1.75									
05		21	3.5	1	0.75	1	0.75	0.5		1			
06a		11.75	4	1.25	0.5					0.25			
06b		12.5	12	2.25	1	0.25							
06c			21.75	13.25	1	0.25	0.5	0.25	0.5	0.5	0.25		
07			31.5	19	1	0.5					0.5		
08			8.5	35.25	33.75	13.25	2.75	0.5	0.5	0.75	0.5	1	0.5
09a			0.75	16	45.5	35	10	4.5	2.25	1.25	1.25	0.25	0.75
09b					7	41.5	77	86.25	88.75	89.25	89.75	91	91

Note: values below 1% were excluded the regular development pattern; blue <5%, green 5-50%, red >50%

Table S3. Hydropriming as seed priming method and germination percentages in each secondary stages every day for basil

Secondary Stages	Days												
	1	2	3	4	5	6	7	8	9	10	11	12	13
00	10.75	10.25	10.25	10.25	10.25	9.75	9.5	8	8	8	8	7.25	7.25
01	15.5	7.75	2.25										
03	55.5	25.5	8.25	2.75									
05	13	21	4.75	3.75	0.75	0.5	0.25	0.75					
06a	4	15	8.75	3	2.5	1.25	1	1.5				0.5	
06b	1.25	11	12.5	1.5	1.75	2	1	0.75	0.75			0.25	0.5
06c		8.25	6.5	3.25	1	0.25			0.25				
07		1	18.75	23.25	0.25		0.5	0.25		0.75			0.25
08			24.25	22	16.25	9	5	3	2.5	1			
09a		0.25	3.75	30.25	61.75	54.25	15.5	6	5.75	5.5			
09b					5.5	23	67.25	79.75	82.75	84.75	92	92	92

Note: values below 1% were excluded the regular development pattern; blue <5%, green 5-50%, red >50%

Table S4. Control treatment and germination percentages in each secondary stages every day for basil

Secondary Stages	Days												
	1	2	3	4	5	6	7	8	9	10	11	12	13
00	11.5	11	10.5	10.5	10.5	10.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
01	43.5	5											
03	41	27	4.5	2	0.5								
05	4	30	2	2	0.5								
06a		14	10		1	0.5							
06b		13	9.5	1	1.5		1	1					
06c			12	2									
07			38	9.5	1.5	0.5							
08			13.5	61	23	10	5	3	2.5	1			
09a				12	61.5	44.5	9.5	3.5	2	3	2.5	1.5	
09b						34	75	83	86	86.5	88	89	90.5

Note: values below 1% were excluded the regular development pattern; blue <5%, green 5–50%, red >50%

Table S5. Differences induced by tretment methods on seed germination parameters

Treatment	GC	GE	T25	T50	T75	T90
C	90.5±1.70 <sup>a</sup>	89.90±1.26 <sup>a</sup>	3.28±0.01 <sup>b</sup>	6.54±0.02 <sup>a</sup>	9.77±0.01 <sup>a</sup>	11.70±0.00 <sup>a</sup>
E	93.5±0.95 <sup>a</sup>	91.50±0.29 <sup>a</sup>	3.35±0.03 <sup>a</sup>	6.61±0.03 <sup>a</sup>	9.81±0.02 <sup>a</sup>	11.72±0.00 <sup>a</sup>
H	92.75±0.25 <sup>a</sup>	90.25±0.25 <sup>a</sup>	3.29±0.00 <sup>ab</sup>	6.58±0.01 <sup>a</sup>	9.80±0.00 <sup>a</sup>	11.72±0.00 <sup>a</sup>
M	92.25±1.54 <sup>a</sup>	91.75±1.31 <sup>a</sup>	3.33±0.02 <sup>ab</sup>	6.58±0.02 <sup>a</sup>	9.79±0.01 <sup>a</sup>	11.71±0.00 <sup>a</sup>

Note: Means±s.e. followed by different letters present significant differences at p<0.05 according to LSD test. Legend: GC – germination capacity (%); GE – germination energy (%); T25, T50, T75 and T90 – time to 25%, 50%, 75% and 90% seed germination (days).