

Integrative Biology

Technical Innovations

3D-printed miniaturized well array and seed planter for high-throughput seed germination screening

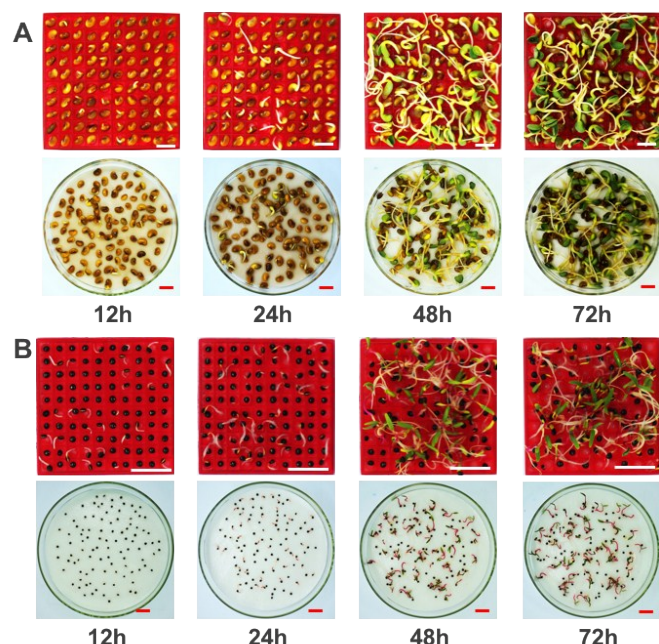
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Supplementary information



sFig. 1 Comparison of germination tests conducted in a 3D-germination array and a Petri dish-based paper-bed assay. Photograph of seed sprouting after different periods of incubation. A) sainfoin; B) Liuye amaranth. Scar bar denotes 1 cm.

Salt (mol/L)	Time	sprout from array chip				Mean G.P.	s.d.
		NO.1	NO.2	NO.3	NO.4		
0	12h	85	91	90	85	87.75	3.20
	24h	88	93	92	90	90.75	2.22
	48h	88	95	96	93	93.00	3.56
	72h	90	97	96	94	94.25	3.10
0.1	12h	65	70	62	63	65.00	3.56
	24h	75	76	76	74	75.25	0.96
	48h	83	83	77	79	80.50	3.00
	72h	83	83	80	80	81.50	1.73
0.2	12h	45	47	52	41	46.25	4.57
	24h	63	68	66	60	64.25	3.50
	48h	71	73	75	75	73.00	1.63
	72h	72	73	75	75	73.25	1.26
0.3	12h	28	25	18	22	23.25	4.27
	24h	40	40	30	40	37.50	5.00
	48h	47	52	37	52	47.00	7.07
	72h	47	53	42	53	48.75	5.32
0.4	12h	6	5	6	7	6.00	0.82
	24h	6	5	12	11	8.50	3.51
	48h	6	5	13	13	9.25	4.35
	72h	6	5	13	14	9.50	4.65

G.P.: germination percentage
s.d.: standard deviation

sTable 1 Seed germination on each array chip

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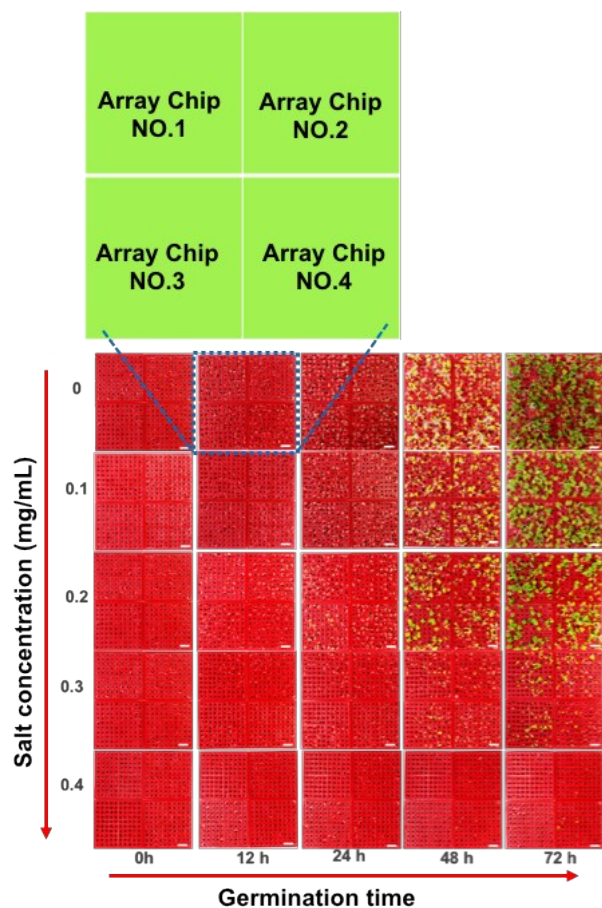
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† Footnotes relating to the title and/or authors should appear here.

Electronic Supplementary Information (ESI) available: [details of any supplementary information available should be included here]. See DOI: 10.1039/x0xx00000x



sFig.2 4 array chips (10X10) assembled for 400 seeds testing