

15 days
GMF

ROSETTE STAGE OF DEVELOPMENT

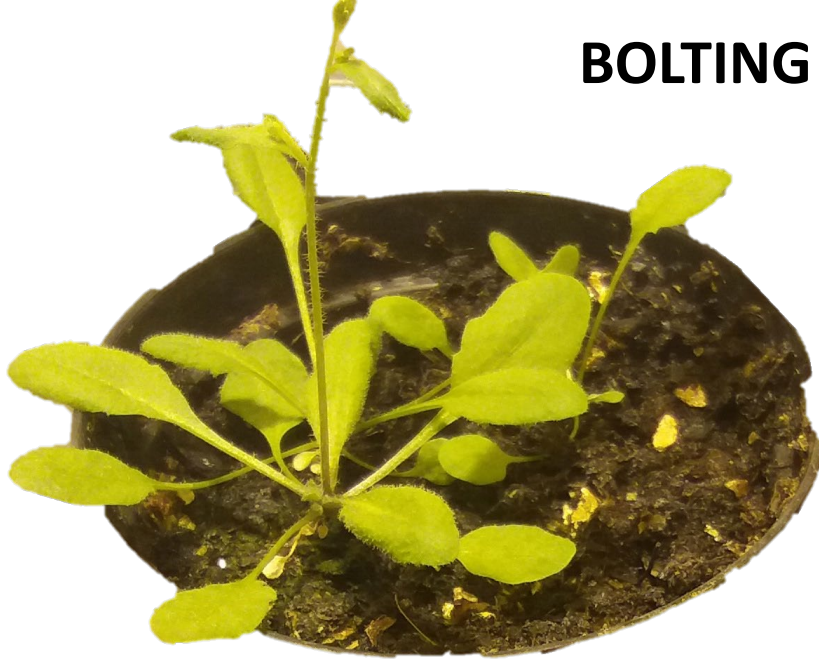


15 days
NNMF



21 days
GMF

BOLTING STAGE OF DEVELOPMENT



21 days
NNMF



30 days
GMF

FLOWERING STAGE OF DEVELOPMENT



30 days
NNMF



35 days
GMF

SEED-SET STAGE OF DEVELOPMENT



35 days
NNMF



Supplementary Table S1. Direct comparison of morphological and developmental parameters between *Arabidopsis thaliana* exposed to either GMF or NNMF. Data are expressed as means (\pm standard deviation) from three independent biological replications. Boldfaced figures indicate significant ($P < 0.01$) differences between GMF and NNMF.

Parameters	Rosette		Bolting		Flowering		Seed-set	
	GMF	NNMF	GMF	NNMF	GMF	NNMF	GMF	NNMF
Leaf area index (LAI) (cm)	12.93 \pm 0.46	13.34 \pm 0.23	22.72 \pm 0.38	21.79 \pm 0.57	63.18 \pm 1.07	56.63 \pm 0.67**	109.81 \pm 0.61	105.58 \pm 0.75**
Stem Length (cm)	1.07 \pm 0.25	0.73 \pm 0.15	8.02 \pm 0.08	4.85 \pm 0.24**	13.28 \pm 0.43	7.61 \pm 0.49**	19.13 \pm 0.24	12.54 \pm 0.58**
Shoot Fresh weight(mg/plant)	0.54 \pm 0.02	0.51 \pm 0.02	2.87 \pm 0.01	2.50 \pm 0.04**	25.89 \pm 0.02	19.96 \pm 0.10**	36.24 \pm 0.05	33.10 \pm 0.05**
Shoot Dry weight (mg/plant)	0.05 \pm 0.00	0.05 \pm 0.00	0.29 \pm 0.00	0.25 \pm 0.00**	2.78 \pm 0.00	2.15 \pm 0.01**	3.62 \pm 0.00	2.76 \pm 0.00**

Supplementary Table S2

Primers used in quantitative real time PCR experiments

Gene Code	Gene	Forward primer (5'-3')	Reverse primer (5'-3')
Reference genes			
At2g37620	<i>ACT1</i>	TGCACTTCCACATGCTATCC	GAGCTGGTTTTGGCTGTCTC
At5g19510	<i>eEF1Balpha2</i>	ACTTGTACCAGTTGGTTATGGG	CTGGATGTACTCGTTGTTAGGC
At1g13440	<i>GAPC2</i>	TCAGGAACCCTGAGGACATC	CGTTGACACCAACAACGAAC
At1g51710	<i>UBP6</i>	GAAAGTGGATTACCCGCTG	CTCTAAGTTTCTGGCGAGGAG
Target GENES			
At1g01120	<i>KCS1</i>	GGTTAAAGCTGGTGACCGAC	TCATCTCCTCCGTCGAAACC
At1g25450	<i>KCS5</i>	GCTACAAACCTCCTGTCACG	CCTGATCGCTCGAGGATTCT
At1g68530	<i>KCS6</i>	CAGCACGGAGATCATAACGC	CGGCGGTTTGACATGTGTAT
At2g15090	<i>KCS8</i>	AAGCAGGCATGTGTTGGAAG	AGTGGGAAGCACTGAAGACC
At2g28630	<i>KCS12</i>	GTTGCATCCAAGCCGAAGAT	ACGGGAAGAATCTTGGGTGT
At1g06350	<i>ADS4</i>	GACATGGCTCGTAAACTCGG	CGATGACTCAAACGCGTGAT
At2g15230	<i>LIP1</i>	GCCTCACCCATCATCTGTCA	TTCGACAGCCCATAAGTCCG
At1g27950	<i>LTPG1</i>	CAAGCGAAGACAGGAGGACA	TGGCGAGCTAGGTGAAATCC