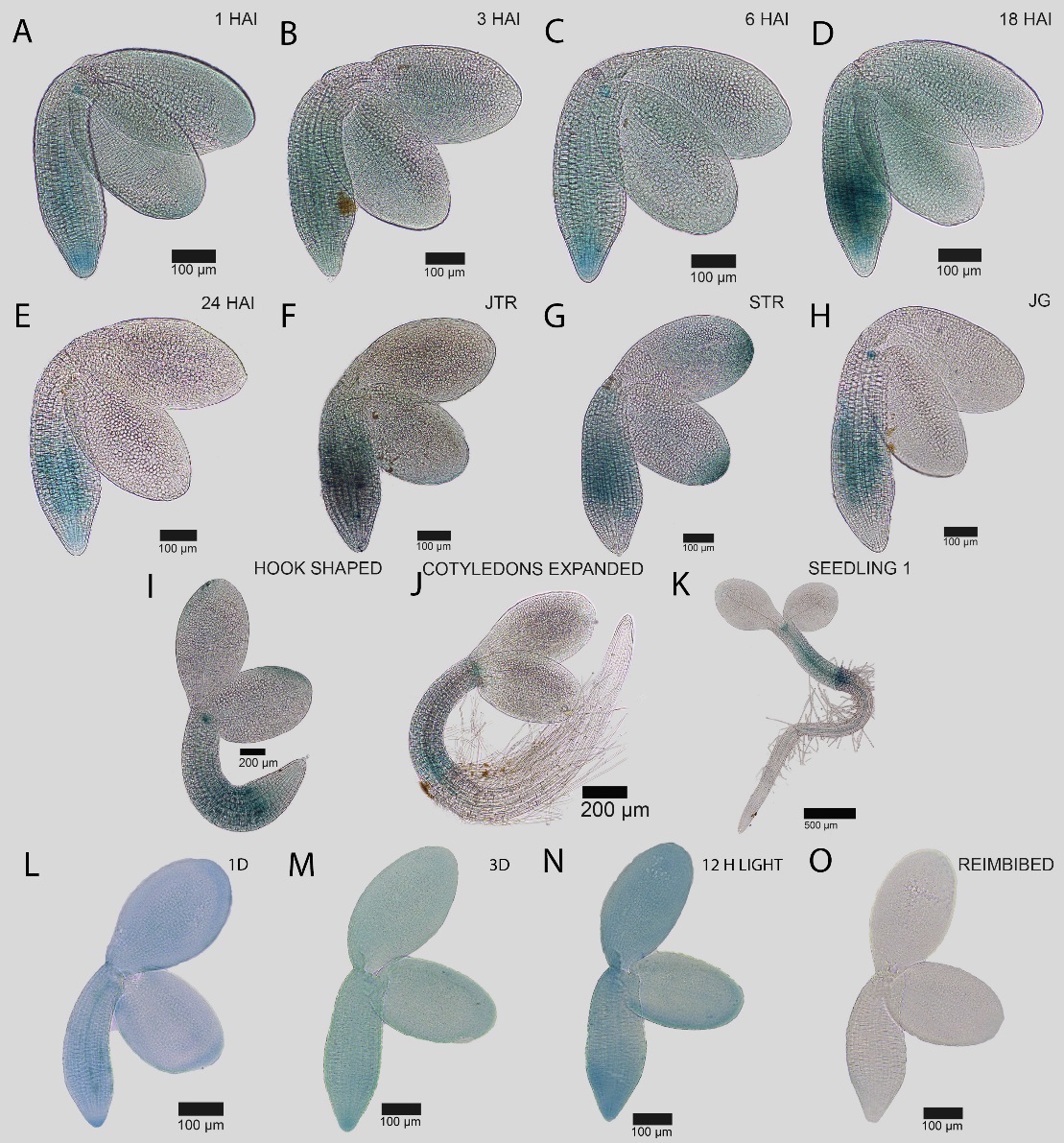
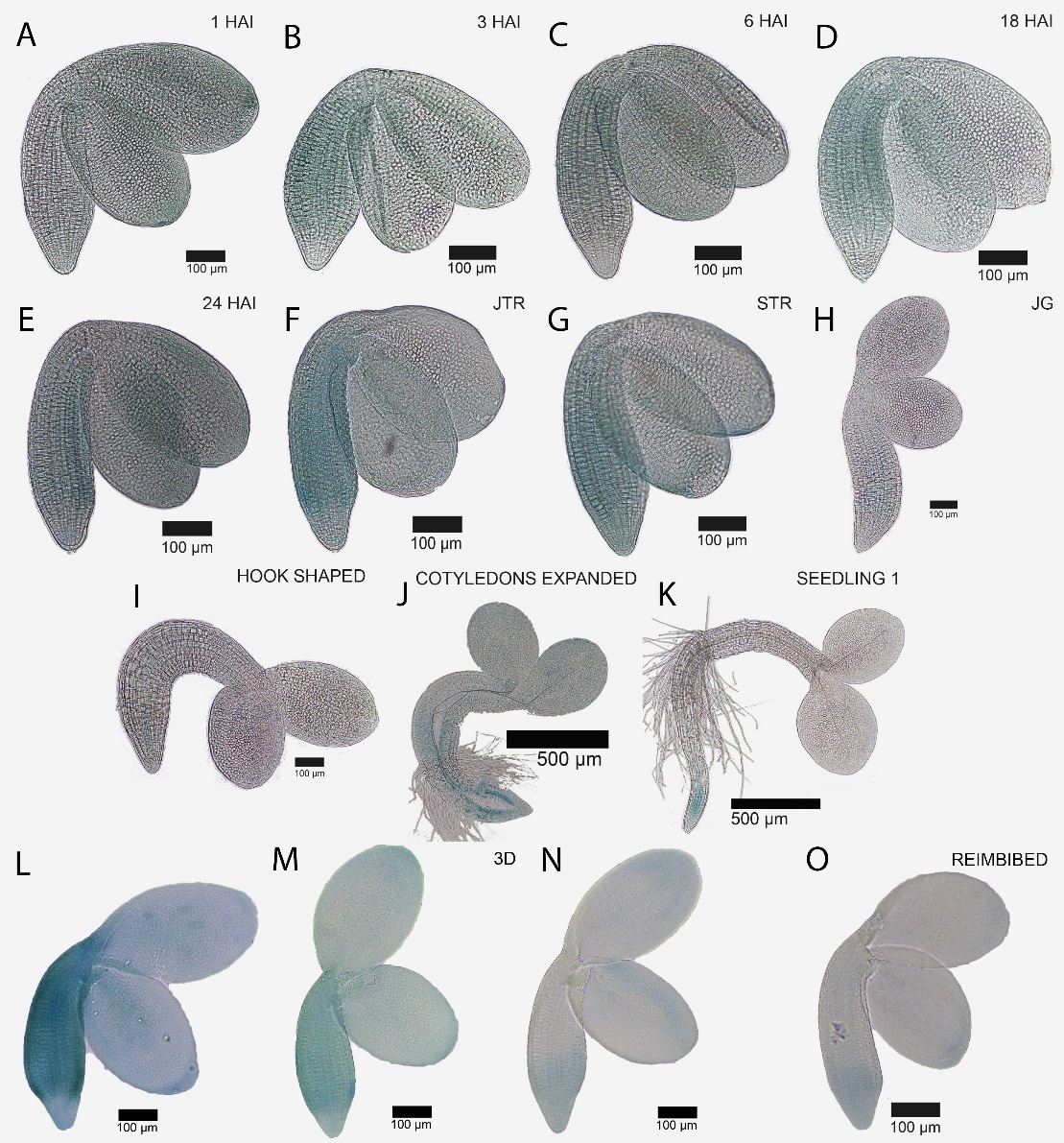
**SUPPORTING INFORMATION**

Seed priming stimulates spatiotemporal reprograming of the *Arabidopsis* seed germination program

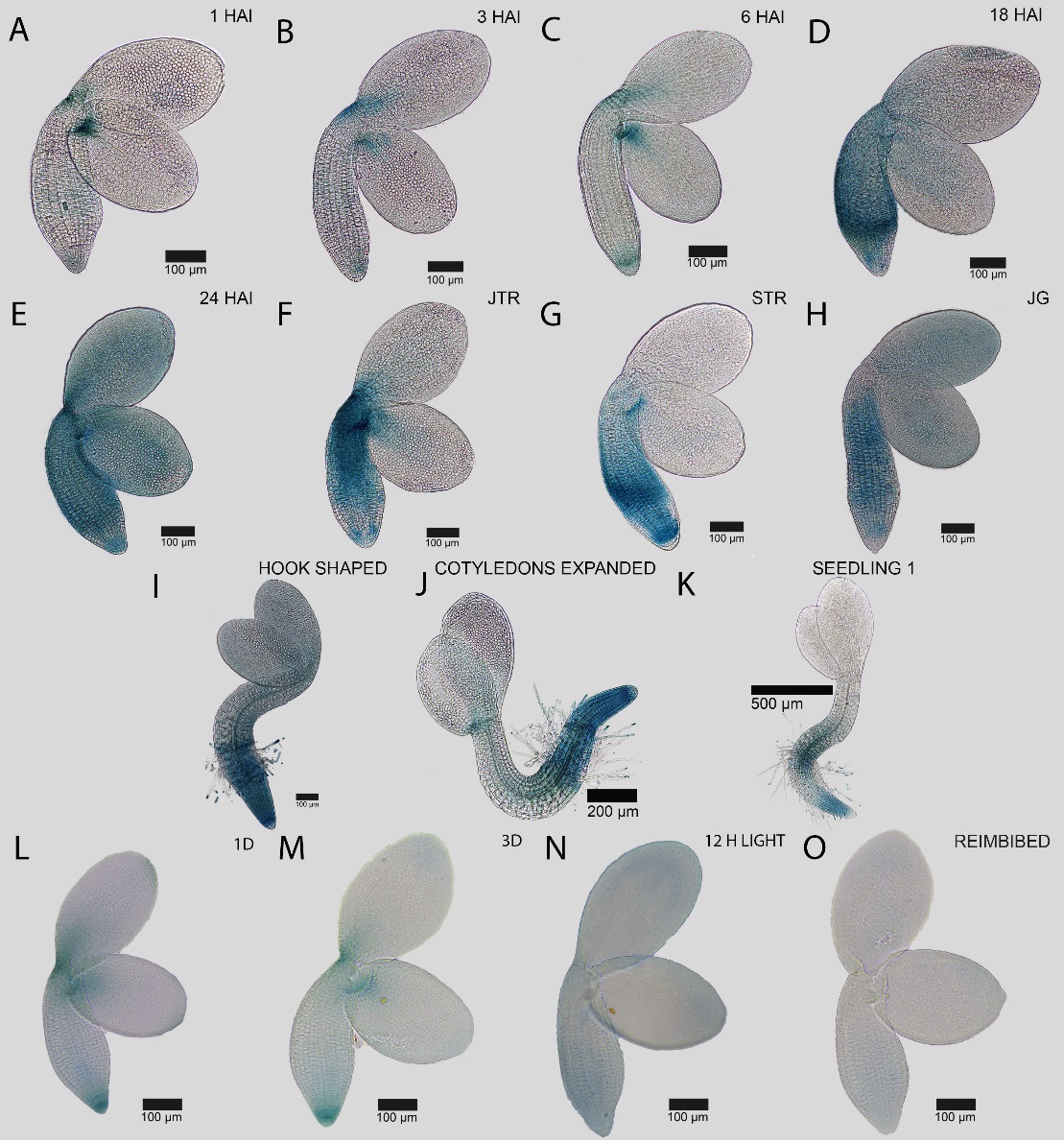
Jack Mitchell, Nur K. Mukhtar, George W. Bassel



**Fig. S1.** Spatial and temporal dynamics of the *GIBBERELLIN 3 -HYDROXYLASE* *1* (*GA3ox1*) *GA3ox1::GUS* reporter during the seed to seedling transition in *Arabidopsis.* Promoter activity in the germinating embryo at (A) 1 HAI, (B) 3 HAI, (C) 6 HAI, (D) 18 HAI, (E) 24 HAI, (F) early testa rupture, (G) late testa rupture, and germinated seedlings just after the completion of germination (H), (I) hook stage seedling, (J) recently expanded cotyledons and (K) a fully established seedling. Pattern of *GA3ox1::GUS* promoter activity in an embryo following (L) 1 day and (M) 3 days of priming treatment at 4 oC in the dark (N) 12 h at 22 oC in the light, and (O) following reimbibition for 12 h. Black bars indicate the scale in each image.



**Fig. S2.** Spatial and temporal dynamics of the *EXPA15::GUS* reporter during the seed to seedling transition in *Arabidopsis.* Promoter activity in the germinating embryo at (A) 1 HAI, (B) 3 HAI, (C) 6 HAI, (D) 18 HAI, (E) 24 HAI, (F) early testa rupture, (G) late testa rupture, and germinated seedlings just after the completion of germination (H), (I) hook stage seedling, (J) recently expanded cotyledons and (K) a fully established seedling. Pattern of *EXPA15::GUS* promoter activity in an embryo following (L) 1 day and (M) 3 days of priming treatment at 4 oC in the dark (N) 12 h at 22 oC in the light, and (O) following reimbibition for 12 h. Black bars indicate the scale in each image.



**Fig. S3.** Spatial and temporal dynamics of the *XTH19::GUS* reporter during the seed to seedling transition in *Arabidopsis.* Promoter activity in the germinating embryo at (A) 1 HAI, (B) 3 HAI, (C) 6 HAI, (D) 18 HAI, (E) 24 HAI, (F) early testa rupture, (G) late testa rupture, and germinated seedlings just after the completion of germination (H), (I) hook stage seedling, (J) recently expanded cotyledons and (K) a fully established seedling. Pattern of *XTH19::GUS* promoter activity in an embryo following (L) 1 day and (M) 3 days of priming treatment at 4 oC in the dark (N) 12 h at 22 oC in the light, and (O) following reimbibition for 12 h. Black bars indicate the scale in each image.