**Supplemental information**

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**Fig. S1.** Germination of *B. parachinensis* seeds imbibed in water or different concentrations of coumarin.

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**Fig. S2.** Germination of *B. parachinensis* seeds imbibed in water or different concentrations of GA3.

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**Fig. S3.** Germination of *B. parachinensis* seeds imbibed in water or different concentrations of GA4+7.

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**Fig. S4.** Germination of *B. parachinensis* seeds imbibed in water or different concentrations of PC.

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**Fig. S5.** Germination of *B. parachinensis* seeds imbibed in water or different concentrations of fluridone.



**Fig. S6.** Accumulation of ROS in *B. parachinensis* seeds with testa at 10 h when imbibed in water with or without coumarin, GA3, or GA4+7.