

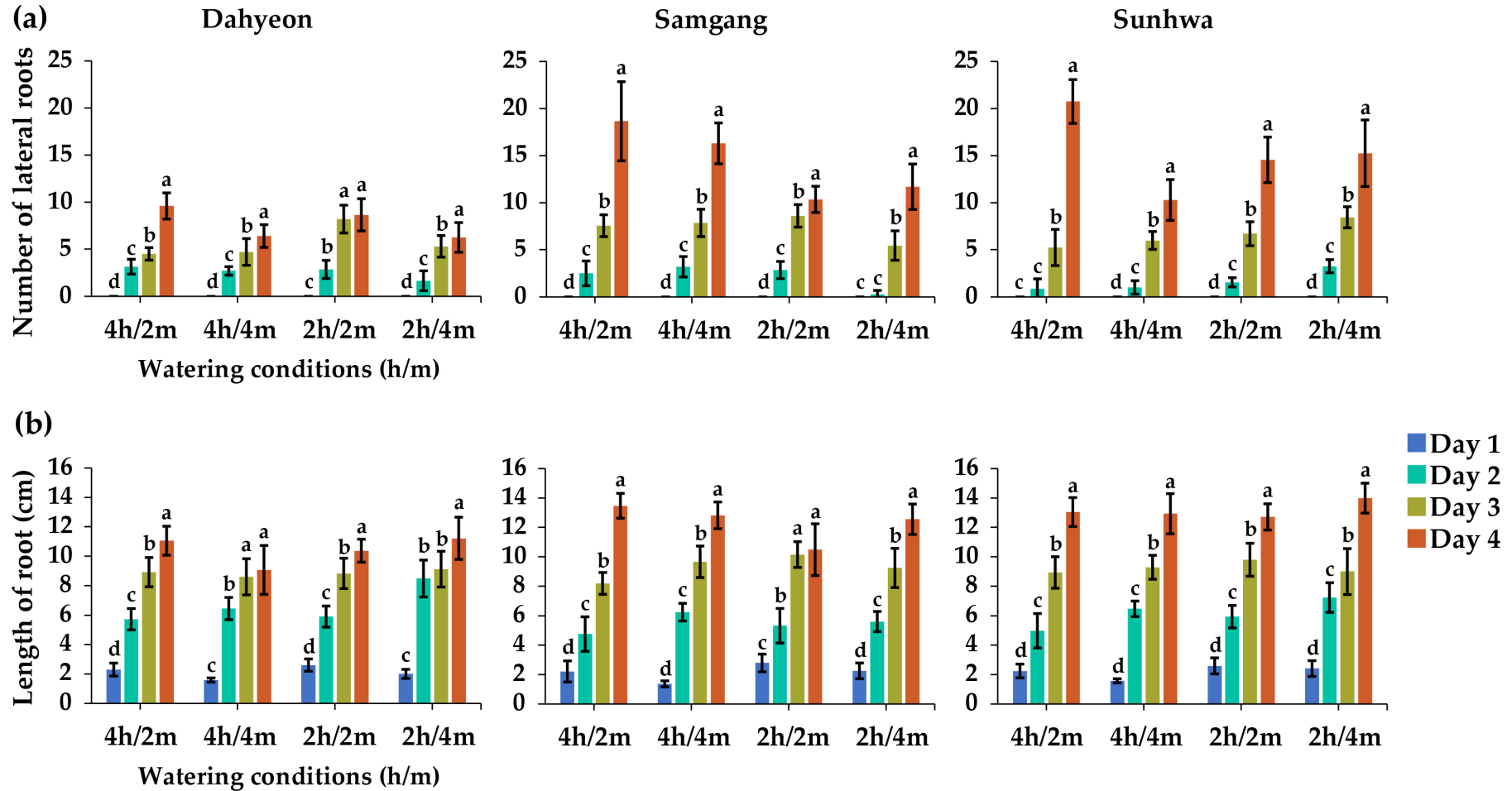
(a)



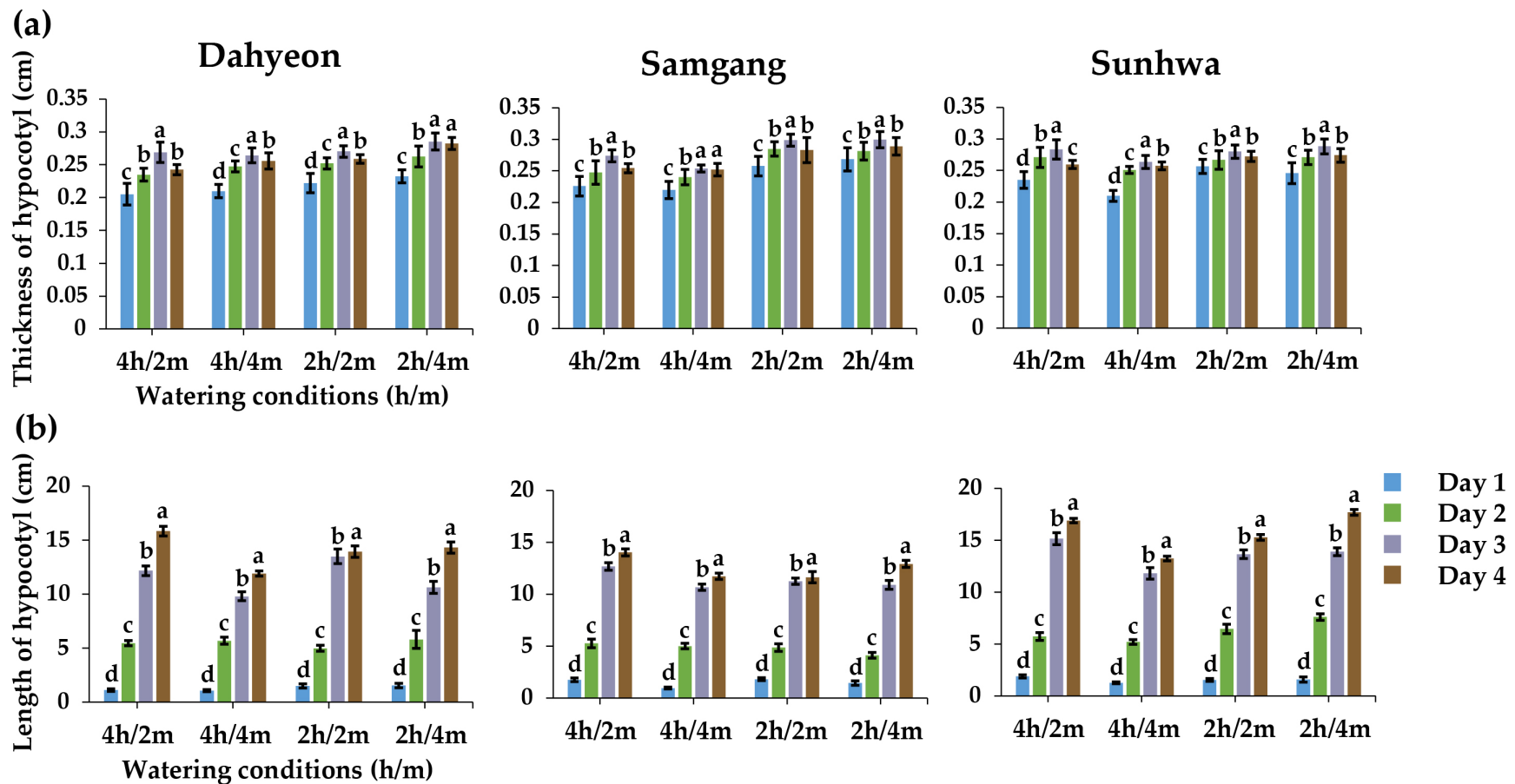
(b)



Supplementary Fig. S1. Sprout cultivator. (a) Inside of cultivator. (b) Control menu.



**Supplementary Fig. S2.** Growth measurements of mungbean sprouts for four days. (a) Number of lateral roots, (b) Root length. Cultivation day was indicated by color. One-way analysis of variance (ANOVA) and post-hoc Duncan test were carried out. Statistical significance was indicated by lowercase letters ( $P < 0.05$ ). Each column represents each of three mungbean cultivars (Dahyeon, Samgang, Sunhwa).



**Supplementary Fig. S3.** Growth measurements of mungbean sprouts for four days. (a) Thickness of hypocotyl, (b) Length of hypocotyl. Cultivation day was indicated by color. One-way analysis of variance (ANOVA) and post-hoc Duncan test were carried out. Statistical significance was indicated by lowercase letters ( $P < 0.05$ ). Each column represents each of three mungbean cultivars (Dahyeon, Samgang, Sunhwa).