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Title: Enhanced salt tolerance of alfalfa (*Medicago sativa*) by *rstB* gene transformation

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Highlights of “Enhanced salt tolerance of alfalfa (*Medicago sativa*) by *rstB* gene transformation”

1. To improve the salt tolerance of alfalfa, salt tolerance related gene *rstB* was delivered to the alfalfa genome. A highly efficient transformation system of alfalfa was involved in the work.
2. Molecular tests confirmed the existence of transgene in the transgenic plants (T0 generation).
3. Physiology tests confirmed the improvement of salt tolerance of transgenic alfalfa (T1 generation). Most interesting is the result demonstrated that the *rstB* transgene enhanced calcium accumulation, which could serve as a mechanism of the improved salt tolerance.

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