

# Realization of a low carbon society through game changing technologies

**Development of breeding method for high biomass hybrid barley by flowering mutation**

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## Summary :

Hybrid vigor (heterosis) is a phenomenon in which the production of the first generation of hybrids exceeds the production of parents, and is a breeding technology that improves biomass and tolerance under the same resource investment.

Barley shows a high level of heterosis effect for biomass production. By using a flowering mutation, we will realize a hybrid breeding technology, securing efficiency of barley cultivation without new resource investment and biomass production even in unsuitable environments due to the expansion of cultivation area, and aiming for recycling of carbon dioxide.

