

Realization of low carbon society through game changing technologies

Innovation of biomass production by regulation of environment memory in seeds

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Summary :

Plants have the mechanism of environmental stress memory through epigenomic regulation, and some of these properties are passed on to the next generation. The purpose of this study is to develop seeds with environment memory for stable biomass production.

"Seeds" are universal in plant and can be applied not only to cereals but also to horticultural crops. By increasing crop yields with low input resources, we can reduce CO₂ emissions on a global scale while contributing to the food problem caused by population growth.

