Green Biotechnology

R&D Project Title: Breeding Innovation of Practical Plants Through a Novel Cisidentification Technology

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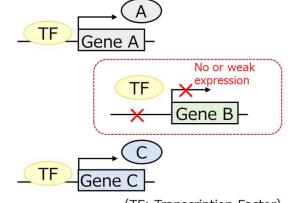
Bioproduction Research Institute, AIST



Summary:

In this project, we aim to establish a new technology for identifying and analyzing transcription factor-DNA binding sequences, or cis sequences, that is applicable to all plants, including those where genetic transformation is challenging.

Cis-targeting will make it possible to improve plant traits without introducing unintended characteristics. We aim for contributing to realize the carbon-neutral society by utilizing this technology.



(TF: Transcription Factor)

Rapid identification of cis-regulatory sequences and introducing mutations

Modification of the specific gene expression

Plants with desirable traits without undesirable characteristics

Contribution to realizing the carbon-neutral society.

