

Session Title: Genetic Engineering for CO₂ Reduction

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There are some approaches of genetic recombination technologies and genome editing techniques for CO₂ reduction issues.

For example, development of high efficiency production methods for biofuels and chemical products by genetically modified microorganisms without fossil fuels such as petroleum, and development of genetically modified plants that enable to produce biomass fuel efficiently. Furthermore, it could be possible to create plants and crops that efficiently absorb and storage carbon dioxide by genome editing technologies.

While these examples attract rising attention as a response to climate change, the impact of these modified organisms on ecosystems is also a concern.

Since the domestic conventional regulations of genetically modified organisms are not applicable for these genome editing technologies which knock out particular gene, information disclosure will be needed especially for this field.