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## **The plan for safety management of living modified organisms used in environmental purification**

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### **Objectives**

Based on the 「Transboundary Movements of Living Modified Organisms Act」, one who wishes to develop, produce, import, export, transport, store, sell LMOs used in environmental purification shall obtain approval from the Ministry of Environment. This purpose of present study introduce the plan for safety management of LMOs used in environmental purification.

### **Materials and Methods**

We have collected the data for this presentation and as following; laws, papers, reports, consensus document and so forth. The data collection is mainly used internet.

### **Results and Discussion**

By the development of biotechnology, various kinds of LMOs have been created. LMOs can solve environmental problems. Despite lots of potential benefits, the public worry about the effect of LMOs on the environment; vertical or horizontal gene flow, the reduction of gene diversity, the impact on other wild organism. According to the article 7 of the 「Transboundary Movements of Living Modified Organisms Act」 the head of related central government authority shall make plan for safety management of LMOs within its jurisdiction every 5 year, and annual plan for the detailed enforcement to implement this. The Ministry of Environment (MOE) is responsible for the safety assurance of LMOs for environmental purification use. Securing the safety on ecosystem is one the major role for the MOE. The LMOs safety management plan of MOE consists of items as following; import/export management, facility for handling, support for the development of risk assessment technology, emergency plan, public relations. Efforts would be necessary to increase public confidence and to make the system more open and transparent. MOE is carrying out making effective regulatory system for conservation and sustainable use of biological diversity.

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