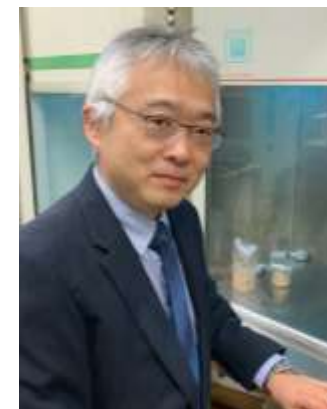


Realization of a low carbon society through game changing technologies

Biodegradation control in plastics by control of microbiome structure formed on the surface

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Summary :

To predict the biodegradability of biodegradable plastics in actual environments is difficult with current knowledge alone, and this is one of the reasons, which hinders the practical application of biodegradable plastics. In particular, there are few plastics that biodegrade in marine environments. In this project, in order to clarify the mechanism of plastic degradation in actual environments, we will clarify the microbiome structure of the plastic surface during plastic degradation in the environment through omics analysis. The various data obtained here are correlated to determine marine environmental degradation parameters for biodegradable plastics.

In the future, we will create new marine biodegradable plastics taking advantage of the basic data obtained in this project.

Objective of the project



Ultimate goal by 2050

