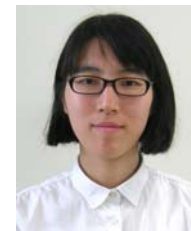


# Microbiological material cycling in natural environments



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<b>Keywords</b>	Microorganisms, environment, material cycling, sulfur, methane		
<b>Technical Support Skills</b>	<ul style="list-style-type: none"> <li>Detection, identification and quantification of microorganisms using molecular biological techniques</li> </ul>		

## Research Contents

- Detection, identification and quantification of specific microorganisms using molecular biological techniques (e.g. cloning analysis, catalyzed reporter-deposition fluorescence *in situ* hybridization [CARD-FISH]).
- Research on microbiological material cycling in natural environments.
- Cultivation and isolation of novel microorganisms.
- Visualization of uncultivated microorganisms and their distribution pattern.

### Recent research topics:

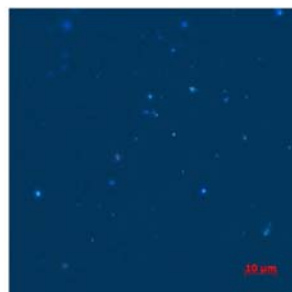
Detection and cultivation of anaerobic oil degrading microorganisms in estuaries

Cultivation of biodegradable plastic producing bacteria

Methane producing/oxidizing microorganisms in rice paddy soil



Rice paddies – a major source of methane.



DAPI stained microbes in lake water.



Organic matter tends to accumulate in estuary.



Sampling of sediments and cultivation.

## Available Facilities and Equipment
