

## FOLENS Syllabus

<b>Subject Title:</b> 生物新機能開発学 [Improvement of Biological Functions]							
<b>Subject Category:</b>	Bio-Environment	<b>Department</b>	MI	<b>Credit</b>	2	<b>Code</b>	059124
<b>Semester</b>	Second/Fall	<b>Day(s)/Period(s)</b>	Thursday 4				
<b>Class Format</b>	Lecture			<b>Location</b>			
<b>Instructor</b>	辻村 秀信 [TSUJIMURA Hidenobu]						
<b>Office</b>				<b>Email</b>	tsujmr@cc.tuat.ac.jp		

### ■ Outline & Target

Purpose:

This lecture outlines biological functions from the viewpoints of molecular biology, biotechnology, and ecology. Case studies will be provided to explore, develop, and improve new biological functions for biological production, resource management, and environmental conservation.

### ■ Course description

Contents:

[Tsujiura, Hidenobu]

- 1.gene structure and function
- 2.gene cloning
- 3.genetically modified organisms
- 4.gene testing
- 5.cloned animals

[Oikawa, Yosei]

- 6.Potentials of genetically modified crops and social impacts
- 7.Developing new biological functions for agricultural production
- 8.Applying traditional ecological knowledge for sustainable resource management
- 9.Using new biological functions for environmental conservation
- 10."Natural Cultivation" and Endophyte

### ■ Evaluation standards

Attendance

short report

### ■ Last update

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