

# 博士学位論文公開発表会

## GENE EXPRESSION ANALYSIS OF ANTIMICROBIAL PEPTIDES IN AYU STIMULATED WITH LPS.

(LPS刺激後のアユにおける抗菌性ペプチドのmRNA発現)

### 講演要旨：

*Plecoglossus altivelis* (ayu) is one of the most important fish species in the Japanese islands and in internal fish hatcheries. Living in open aquatic environments exposes fish to many pathogens. Therefore, they require rapid and strong immune defenses. We investigated in vivo the direct association between the ayu innate immune response, represented by the relative transcription of genes encoding the cathelicidin and hepcidin antimicrobial peptides, and lipopolysaccharide (LPS), a conventional pathogen-associated molecular patterns (PAMPs) of Gram-negative bacteria. To evaluate the association between the expression of the antimicrobial peptide genes investigated and LPS stimulation in ayu fish.

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**Place:**             **Lecture room C201** (生物生産学部棟)

**Date:**             **July 19, 2017**     **Time: 13:00 ~ 14:00**

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