

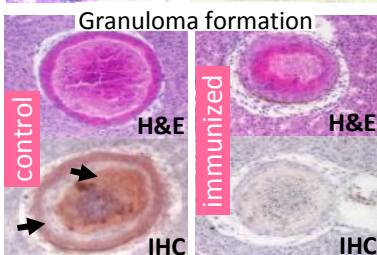
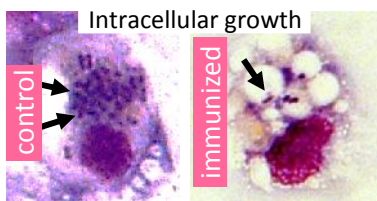
学位論文発表会

下記の通り学位論文発表会を開催します
多数の皆様にご参加いただきますようお願いいたします

Mechanisms of protection induced by atypical *Edwardsiella tarda* vaccine in red sea bream *Pagrus major*

養殖マダイのエドワジエラ症に対する ワクチンの感染防御機構

発表者 : **INDAH ISTIQOMAH**
日時 : **2016年1月7日(木) 13:00-14:00**
場所 : **Grad. School of Biosphere Science (C-316)**



Infection of a pathogenic bacteria, atypical (non-motile) *Edwardsiella tarda*, in red sea bream frequently occurs in warm temperature season in Japan. The goal of this study was to develop effective vaccine for the disease and clarify the mechanism by which protection was conferred. Injection of vaccine (atypical *E. tarda* inactivated bacterin) in red sea bream gave protection against edwardsiellosis, with relative percentage survival of more than 60%, in a dose dependent manner which lasted for more than 4 months post-immunization. Macrophages with the aid of opsonins (antibody and complement) control intracellular bacterial growth in the early stage of infection. Clearance of live *E. tarda* in fish organs was done by protective granulomas, developed in the late stage of infection.

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