The Relation between Infection Route of *Lactococcus garvieae* Originated from Rainbow Trout (*Oncorhynchus mykiss*) and Macrophage Phagocytosis

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ABSTRACT  In order to compare infection route between different virulence streptococcus strains, we have chosen *Lactococcus garvieae* originated from rainbow trout (*Oncorhynchus mykiss*) as an infection model. After *in vivo* virulence test, we found high virulence strain R0726 and low virulence strain RT-2. Surface antigen analyzed by western blotting and cannot find significant difference between two strains. After infection *L. garvieae* into rainbow trout, both strains could be isolated from spleen 2h post-infection. We cannot isolate RT-2 after 18th day post-infection, but after the 24th day post-infection we still can isolate R0726. Phagocytosed RT-2 were killed while A0726 significantly surviving within phagosomes of Macrophages. [Young YC, Wang HL, * Chen MM. The Relation between Infection Route of Lactococcus garvieae Originated from Rainbow trout (Oncorhynchus mykiss) and Macrophage Phagocytosis. Taiwan Vet J 38 (2): 128-137, 2012. * Corresponding author TEL: 886-2-3366-1288 /3366-3875, FAX: 886-2-2366-1475, E-mail: cmm@ntu.edu.tw]

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