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Henriksen, Maya Maria Mihályi; Dalsgaard, Inger

Publication date:
2011

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Citation (APA):

Henriksen, M. M. M., & Dalsgaard, I. (2011). Flavobacterium psychrophilum, prevention and immune response. Abstract from Workshop on In vivo conservation of farm animal genetic resources : Guidelines and Challenges in practice, Wageningen, The Netherlands, .

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***Flavobacterium psychrophilum*, prevention and immune response**

Maya M. M. Henriksen* and Inger Dalsgaard

National Veterinary Institute, the Technical University of Denmark, DK-2800 Lyngby, Denmark

The fish pathogen *Flavobacterium psychrophilum* is one of the main causes of mortality in farmed rainbow trout and other salmonid fish. The disease following infection is often called bacterial coldwater disease (BCWD) in USA or rainbow trout fry syndrome (RTFS) in Europe. An infected farm can expect mortality rates around 50-60% in fry and 2-10% in juvenile fish within few weeks, which causes significant economical losses worldwide. Presently no commercial vaccine exists, and fish farmers control the disease with antibiotics.

The project is currently in its preliminary phase but the overall goal is to examine gene expression and location of transcription products in rainbow trout fry, in order to optimize vaccination or immune-stimulation. The presentation will focus on the future plans for the project, since no data have yet been obtained.