

Phylogenetic Analysis of the Myxosporea Detected from Emaciated Olive Flounder (*Paralichthys olivaceus*) in Korea

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Abstract : The Myxosporea to cause emaciation disease in the olive flounder (*Paralichthys olivaceus*) is a pathogen to cause severe losses in the aquafarming industry in Korea. The 3,362 bp of DNA nucleotide sequences of four myxosporean strains (EM-HM-12, EM-MA-13, EM-JJ-14, and EM-MS-15) detected by PCR method from olive flounder suffering from emaciation disease in Korea during 2012-2015 were sequenced and deposited in GenBank database (GenBank accession numbers: KU377574, KT321705, KU377575 and KU377573, respectively). The homologies of DNA nucleotide sequences of four strains were compared to each other and were more than 99.7% homologous between the four strains. All of the strains were identified as *Parvicapsula petunia* based on the results of phylogenetic analysis. The results in this study would be useful for the research of emaciation disease in olive flounder of Korea.

Keywords : disease, emaciation, olive flounder, phylogenetic analysis

Conference Title : ICAS 2018 : International Conference on Aquaculture and Fisheries

Conference Location : Bangkok, Thailand

Conference Dates : December 13-14, 2018