Jorge E Toro et al., J Aquac Res Development 2018, Volume 9
DOI: 10.4172/2155-9546-C1-024

Genetic characterization of hybrids between species *Mytilus edulis platensis* and *Mytilus galloprovincialis* (Mytilidae:Bivalvia) in the Chilean coast

Jorge E Toro, A Valenzuela, M Astorga and P A Oyarzún
Austral University of Chile, Chile

Given the hybridization ability between species *Mytilus edulis platensis* and *M. galloprovincialis*, this research proposed to assess the genetic variability of the hybrid offspring in relation to pure species, using eight loci microsatellites. The study found differences between hybrid offspring comparing to pure species. The hybrid offspring had the highest observed mean heterozygosity values (Ho=0.63±0.28) and low values of inbreeding, which tend to significant deviations to negative values of (Fis), demonstrating excess of heterozygote in hybrids comparing with pure species, which displayed significant deviations towards positive values of Fis. The principal component analysis shows three distinct groups among the samples analyzed, identifying the hybrid offspring as an intermediate group between pure species.

Biography

Jorge E Toro has completed his PhD from Memorial University of Newfoundland, Canadá. He is the Director of Institute of Marine and Limnological Sciences at Austral University of Chile. He has published more than 50 papers in reputed journals and has been serving as an Editorial Board Member of repute.

jtoro@uach.cl

Notes: