

**ORE CHAVEZ, DANIEL SAUL. 2011.** Estructura genética de la población de merluza peruana (*Merluccius gayi peruanus*) (Primavera, 2001) usando variantes de secuencia de la región de control mitocondrial.

### **ABSTRACT**

Peruvian hake (*Merluccius gayi peruanus*) supports a major fishery in the country. Currently the evaluation and management of this resource assumes the presence of a single stocks in the north Peruvian sea, however, observations in 1997 suggest the existence of two stocks in the north and south of 6° S. The aim of this study is to evaluate using mitochondrial markers the presence of one or two units of hake population, which was amplified for the mitochondrial control region of partial and complete, detected with two technique: Single Strand Conformational Polymorphism (SSCP) and sequencing, respectively. A high haplotype diversity and low nucleotide diversity, with differentiation and structure genetic low, with the possible presence of two matrilineal lines juxtaposed geographically. Likewise there is evidence that the population underwent a recent population expansion event in the late Pleistocene. In conclusion, the Peruvian hake comprises a single panmictic unit north Peruvian sea without the presence of genetic structure in populations, which supports the hypothesis of a single stock, requiring the use of other markers such as microsatellites for analysis to multilocus to have better criteria to support the hypothesis.