

# Population genetics in the highly commercial Humboldt squid,

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The Humboldt squid represents the largest squid fishery in the world, highly abundant in productive waters like the Humboldt Current of Peru in the Southern hemisphere and the Costa Rica Dome in the Northern hemisphere. Landings of this species within the Peruvian exclusive economic zone represents more than 40% of the total catch along its whole distribution, yet DNA markers to identify population stocks and evaluate genetic diversity has not been employed until now.



The present study will address this issue using mitochondrial and nuclear DNA markers in populations from Peru, Costa Rica Dome and samples collected around the north-south hemisphere break. We also used DNA – based identification of commercial cephalopods found in Japanese markets to address problems regarding the low between - species genetic distance when the universal COI DNA barcoding is used.

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