

# **Investigating the genetic effects of marine fish cage culture with an emphasis on important marine species in the world**

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## **Abstract**

Despite the rising demand growth for marine aquaculture, the current trend in natural resources of aquaculture is decreasing, which has led to an ever-increasing growth of aquaculture production, especially in marine environments. Meanwhile, the extent and complexity of these activities in open water environments, such as marine areas, have raised different perspectives, sensitivities and questions relative to the cage culture industry. Since the industry in our country is in its early stages of development, consideration to the results of previous studies of leading countries can be regarded as an effective guidance in this way for farmers and

administrators. The main objective of this paper is to evaluate the potential genetic effects of the fish escape from cages.

**Keywords:** cage culture, genetic effects, population structure, marine fishes