



Generate a DNA Barcode for Caspian Sea sturgeons and identify species

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Abstract

Due to the high nutritional value and quality of sturgeon caviar and flesh, these products have a high commercial value and to be used in many food, pharmaceutical, health and cosmetic products. Food fraud is very common in these products. There are many species fish flesh could have sold mislabeled fish instead of flesh sturgeon and also for caviar mislabeled with non-sturgeon caviar or other materials. Cosmetic and pharmaceutical products have sold with high price by fraud caviar extract. How do we complete the task of exact identifying the sturgeon products? Create a genetic based identification system named DNA barcoding. In this system extracted DNA be used to investigate for amplification a region for distinguishing different type of Caspian Sea sturgeons. DNA barcoding could be applied for species and sturgeons' hybrids identification in fish farming and sturgeons' fish breeding centers.

Keywords: DNA barcoding, Caspian Sea, sturgeon.