

Dna fingerprinting of southern Caspian Sea population of amphipod (*Pontogammarus maeoticus*)

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For the first time, the genetic variability of southern Caspian sea population of the brackish water amphipod (*Pontogammarus maeoticus*) was analyzed using randomly amplified polymorphic DNA (PCR-RAPD). We analyzed 4 populations along the Mazandaran coast with 10 arbitrary primers, which produce 23 interpretable bands. There was no significant polymorphism and 73.91% of bands were monomorphic.

These results (Genetical identification) are consistent with those of morphological identification.

This was the first time that the southern Caspian sea amphipods (*p. maeoticus*) has been genetically surveyed; therefore to monitor further alteration, variation, mutation and modulation, a continuous, precise and great project with the Gilan province coast results, is needed.