# Identifications associated molluscs with corals in Qeshm Island (Berke Khalaf and Naz coasts)

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## Abstract

In the study and identification of mollusca along with corals of Qeshm Island in the summer of 2018, 2 stations on Naz coasts and Berke Khalaf were studied. Sampling was done in summer during the full tide of the lunar month from the inter-tidal areas around Qeshm Island. At each station, based on the area of transect, 30 meters perpendicular to the coast was determined. In each of the middle and lower tidal areas, 3 quadrats 0.5 m by 0.5 m in each area were randomly launched. Mollusca samples from each quadrant were collected and separated from the coral colony. Samples from each quadrant were placed in separate containers. 17 families, 25 genera and 32 species of gastropods, 13 families, 19 genera and 20 species of bivalvia, 1 family, 1 genus and 2 species of chitons were identified.

The largest family in terms of species diversity was the family Nassarridae. The largest specimen of *Barbati decussta* belonged to the family Arcidae and the smallest specimen of *Mitrella blanda belonged* to the family Columbellidae. In terms of frequency, the families Cerithiidae and Pteriidae have the highest frequency. Naz coast station was recognized as the station with the highest level of biological indicators including Shannon-Wiener diversity index, Simpson index and Margalef species richness index. At Naz coast station, the highest Shannon-Winner diversity indices is with an average of1.25, Margelf's species richness index with an average of 6.40and Simpson diversity index with an average of0.92.

**Keywords:** Identification, mollusca, corals, Berke Khalaf, Naz coasts, Qeshm Island.