## Breeding King Crab, Chaceon granulatus, for the Sustainable Deep-sea Animal

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Recently, deep-sea animals for the ornamental purpose in public aquariums have been getting popular. It has been much more concerned about over-fishing by deep-sea trawl fishing and replacement of deep-sea animal exhibit with higher mortality. Therefore we should consider the sustainable deep-sea animal exhibit in public aquariums with conservation of deep-sea ecosystem in the future. We have been trying for breeding deep-sea crustaceans because of not only ornamental market, but also high demand for consumption market.

A deep-sea trawl fisherman offered one Japanese golden crab, *Chaceon granulatus* bearing enough number of fertilized eggs caught by trap fishing at 300 m depth in Suruga Bay. The eggs were cultured at different water temperatures, 9 °C and 12 °C until zoea period between Blue Corner Inc. and Kitasato University. Zoea was hatched in captivity on 47<sup>th</sup> day from the start of the keeping and it took 55 days from zoea to young crab by at least 7 times molting. It had survived in captivity for 22 days.

It has been found through this experiment as follows. The appropriate water temperature is 20-22 °C until the young crab period. It might be better to set water temperature for 18-20 °C after the young crab period. Good food for megalopa-young period is krill, *Euphausia superba*. Need to set up the scaffolding for megalopa to be molt successfully.