

## The Role of Aquariums for a Development of Marine Science

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1. LOTTEWORLD AQUARIUM

“Aquarium” comes from the Latin words, a combination of aqua (water) and atrium (place). In the past, an aquarium means an institute of displaying and introducing marine creatures. Nowadays, aquariums not only collect data about natural science and social sciences of marine study, but also organize and classify the data. Furthermore, aquariums play a role in introducing these data to ordinary people in various ways while they carry out research and analysis. It means that the aquarium's role has been expanded even to organizations and facilities which trying to develop marine science as well as marine species conservation center.

In the past, people simply looked into the water tank. Over time, the aquarium has had exhibits in various ways and has set a theme. Then, gradually, the division of the exhibition was made including as experience, behavior and ecological exhibition. During this process, the issue of animal welfare was also presented and this is not only the pleasure of viewing the exhibit but It has become a driving force to develop species conservation and research institutes.

Also, although imports of ornamental fish with the development of the aquarium industry have grown, there are still a lot of confusions in naming fishes with country name and scientific name. This can lead to ecosystem disturbance but also crossbreeding. Crossbreed fishes and variable species which have been raised in aquarium with isolating completely from the nature indicated lots of problems in fish's classification system.

In conclusion, for research projects, LotteWorld aquarium could be a test bed to collect gene information and accomplish a key role of the aquatic species conservation. Predictive biology will become possible based on morphological classification according to species diversity and research data through genetic classification. This type of biology can be used as basic data for species conservation by using role and value of marine life as an educational resource.