

## The Potential Use of Probiotics for Sustainable Aquaculture of Mud Crab, *Scylla* sp.

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**Abstract.** The mud crab (*Scylla*) is a commercially important crustacean, as there is a large demand in many Southeast Asian countries. Currently, one of the main bottlenecks to the expansion of *Scylla* aquaculture is the inconsistent and low production of hatchery juveniles. One major challenge to overcome at the hatchery level is disease issues caused by bacteria. The use of probiotics to outcompete pathogenic bacteria is being tested in the industry as a better disease prevention method in *Scylla* aquaculture compared to antibiotics, and is getting more recognition in aquaculture to reduce bacterial issues. The current review discusses mudcrab farming activities in Malaysia and the scope for using probiotics in *Scylla* aquaculture, as this is a potential way to increase survival rates in a long term sustainable way.

**Keywords :** *Scylla*, bacteria, probiotics, sustainable aquaculture