

Title : Effects of Formulated Feeds with Fan-shaped Jelly Fungus (*Dacryopinax spathularia*)
Supplementation on Growth and Development of Guppy (*Poecilia reticulata*)

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Major : Zoology

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The fancy guppy (*Poecilia reticulata*) is one of the most popular ornamental fish species, prized for its vibrant colors and ease of breeding. The alternative protein market for aquaculture - especially for ornamental fish such as guppies - is currently expanding rapidly, with major trends emphasizing high-efficiency and sustainable sources. This study aimed to evaluate the effects of alternative protein sources (black soldier fly larvae; BSFL, red water flea; RWF) supplemented with fan-shaped jelly fungus (*Dacryopinax spathularia*) on growth performance, health condition, and internal organ weight of male guppies. Forties samples of male fancy guppies were divided into 4 groups: control group fed with commercial pellet (CP), 5% fungus powder + CP fed group, 5% fungus powder + BSFL fed group, 5% fungus powder + RWF fed group and feed the guppies for 60 days. Total length, caudal fin length, body weight, and survival rate were recorded. According to results of this study, it was revealed that 5% fungus powder + BSFL fed group showed the highest increase of body weight (2.7%) and the highest increase of total length (4%). While, 5% fungus powder + BSFL fed group and 5% fungus powder + RWF fed group represented the highest increase of caudal length with 15%. At the end of the experiment, control group

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and 5% fungus powder + BSFL fed group showed the highest survival rate with 80%. It can be concluded that diets containing BSF and RWF supplemented with fan-shaped jelly fungus may serve as alternative feeds for male guppies, promoting enhanced body and caudal growth, while maintaining survival rate.

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