## عنوان مقاله:

Research Article: Replacement effects of soybean meal with sesame seed cake on growth, biochemical body composition, and economic efficiency of Cyprinus carpio formulated diet

## محل انتشار:

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#### خلاصه مقاله:

A %-day feeding trial was run to evaluate the effect of replacement of soybean meal (SBM) with sesame seed cake (SSC) at «, ΥΔ, Δ», ΥΔ, and ۱»«» in the isonitrogenous (۳»% crude protein) and iso-lipidic (λ% crude lipid) experimental diets on growth, nutrient and economic efficiency, and biochemical body composition of juvenile Cyprinus carpio. Common carp with an average initial weight of λΨ.«9±».«۶ g with a density of Ψ» numbers were randomly fed experimental diets in 1Δ tanks (Ψ»« L) with the flow-through system. The results showed that survival and growth rate, visceral indices, and proximate biochemical composition of the whole body and the fillet except protein did not significant between treatments. The feed intake, feed conversion ratio and protein efficiency ratio, calcium and phosphorus, nitrogen retention efficiency, nitrogen wastage except for SSCγΔ, and phosphorus wastage except for SSCγΔ and SSCΔ» were not significantly affected by the dietary treatments. Economic conversion ratio of diets decreased, whereas profit index increased with increasing levels of dietary SSC. Reduced cost of SSC1» was about ΨΔ.1»%. The number of white blood cells was significantly higher in SSC» than in other experimental treatments. Hemoglobin was higher in SSCγΔ than in SSC». Among serum parameters, cholesterol was significantly lower in SSC» treatment than in SSCγΔ treatment. Comparable growth performance, nutrient wastage, economic efficiency, and some blood factors indicated that SBM could be replaced by ΥΔ to 1»% SSC in the formulated diet of C. carpio inventiles

## كلمات كليدى:

Replacement, Sesame seed cake, Soybean meal, Body composition, Economic efficiency, Cyprinus carpio

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