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Effect of dietary lipid levels on replacing fish meal with soy protein concentrate in golden pompano *Trachinotus ovatus* diet

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A 7-week feeding trial was conducted to examine the effects of dietary lipid levels on replacing fish meal with soy protein concentrate (SPC) in diets for golden pompano *Trachinotus ovatus*. Eight isonitrogenous (465 g/kg crude protein) diets containing four lipid levels (65, 85, 105 and 125 g/kg) and two fish meal levels (diet C contained 280 g/kg fish meal and 50% of the fish meal in diet C was replaced by SPC) were designed. In fish fed diets C (C6, C8, C10) and S (S6, S8, S10), the weight gain and NRE increased, while feed intake, FCR and nitrogen waste decreased with the increase of dietary lipid level. At the same dietary level, no significant differences were found in weight gain, feed intake, FCR, NRE, condition factor, hepatosomatic index, body contents of crude protein and ash and nitrogen waste between fish fed with different fish meal inclusion diets (C6 vs. S6; C8 vs. S8; C10 vs. S10; C12 vs. S12). This study reveals that the suitable dietary lipid level and fish meal level for golden pompano reared in inshore net pens should be 105 g/kg and 140 g/kg, respectively and increasing dietary lipid level could improve fish meal replacement by SPC.

Biography

Xing Ren, a PhD candidate of Zhejiang University, who has published three SCI papers as the first author or co-first author and published three SCI papers and one EI paper as coauthor.

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