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Modulation of digestive enzymes, GH, IGF-1 and IGF-2 genes in the teleost, Tilapia (*Oreochromis mossambicus*) by dietary curcumin

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Abstract

Aquaculture is faced with the challenges of the use of synthetic compounds as growth enhancers and the presence of several contaminants in water.

These factors severely deteriorate the quality and quantity of aquaculture products. Phytochemicals play a major role by working as antioxidant agents of which curcumin has become the gold standard.

Curcumin, from *Curcuma longa* shows a wide spectrum of biological activities which include anticancerous, antioxidant, anti-inflammatory, antibacterial, antiviral, antifungal, antidiabetic, antistress, hepatoprotective and gastroprotective effects. Curcumin in 0.5 and 1 % doses were given as feed additive to *Oreochromis mossambicus* for