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Sustainable Aquaculture for a Secure Future

Title: Induced spawning of the common snook (*Centropomus undecimalis*) in captivity using GnRH-a implants

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Culture of *Centropomus undecimalis* shows great potential as this species tolerates handling and adapts easily to captivity. However, the difficulty in achieving spawning in captivity is a major obstacle for the development of commercial scale farming. Spawning of common snook was achieved using GnRH-a implants in single 100 and 200 μg doses per fish; control group specimens received no hormone and did not spawn. Both GnRH-a trial doses resulted in spawning with up to 100% fertilization rates per experimental unit, and a range of 60-75% per treatment, showing no statistical differences ($p < 0.05$). The percentage of hatching rate was between 50-100% and larvae measured between 1.56 ± 0.08 and 1.98 ± 0.05 mm total length after yolk sac absorption.

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