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Evaluation of the reproductive performance of rainbow trout (*Oncorhynchus mykiss*, Walbaum, 1792) according to the parameters of the environment and the freshness of the ova in a salmon farming station in Morocco

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Our study evaluates the reproductive performance of rainbow trout (*Oncorhynchus mykiss*, Walbaum, 1792) on the basis of the oxygen content of the egg incubation medium, the effect of the ambient light on the success rate of egg development until hatching, in different incubators and the rate of success of artificial fertilization depending on the freshness of the eggs (*in vitro* aging) collected from spawners of the salmon aquaculture station. The results obtained show that the mean success rate varies between 73% and 69% of the eggs development according to the oxygen concentration, 76% for the eggs incubated in the dark, versus 47% only for the exposed eggs to ambient light. With regard to fertilization success rates according to their freshness (t0, t1, t2, t3 and t4 hours), the results showed that it is about 71% for the fertilized eggs just after being collected from spawners and then gradually decreases to reach only 30%, four hours after the stripping.

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