

# Productive studies on tilapia fish

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This study was carried out at the tissue culture lab. Hart. Dept. University at Maryland, U.S.A~ with Dept. at Hart. Moshtohor, Zagazig University, Egypt. The objective of this investigation was to overcome the low germinability of the Rubus seeds by using somatic embryogenesis. In addition, different additives of auxins and promoters were used to produce balanced medium for embryogenesis. Besides, growth regulators were used with the help of an anti-auxin (herbicide) to enhance better proliferation. Furthermore, colchicine, 5-aminouracil, combination of 5-aminouracil and colchicine, and griseofulvin treatments were applied for induction of mutations and variations. Meanwhile, shoot and root cuttings were used as explants of VSPBB # 1 and CGB-I cultivars. On the other hand, colchicine was added to the medium to increase the efficiency of induction of mutations and variations. Moreover, cytological studies were also conducted in this study. The results can be summarized as follows