

应用雄性激素诱导异育银鲫性转化的研究 Methyltestosterone Induction of Sex Reversal in Allogynogenetic Crucian Carp

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摘要 用丙酸睾酮溶液浸泡行雌核发育的异育银鲫(Allogynogenetic crucian carp)胚胎10~14天, 诱导出了11.0%~13.6%的雄性鱼和10.5%~27.3%的兼性鱼。对50日龄的异育银鲫幼鱼投喂甲基睾酮丸素4个月, 再继续饲养182~335天, 诱导出了20%以上的雄性鱼。此外, 部分实验鱼两侧卵巢的大小出现明显差异。

Abstract: The embryos of allogynogenetic crucian carp were soaked in testosterone propionate for 10~14 days, 11.0%~13.6% fry were induced to be physiological males and 10.5%~27.3% fry developed into bisexual sterile. The 50-day old fish were fed diet containing methyltestosterone for 4 months and then reared for 182~335 days. More than 20% fry developed into males. In addition, the ovaries in both sides of some treated fish were significantly different in size.

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