

柏氏鲤、镜鲤和红鲤及其杂种F1主要形态学性状遗传的比较研究

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摘要 通过柏氏鲤和镜鲤、红鲤的种间杂交, 比较了它们之间3个杂交组合F₁和亲本的形态学性状, 观察到在鳞片、体色、头长、体高、鳃耙数等性状上, 亲本与杂种F₁之间有较大的遗传差异。3个杂交组F₁, 的杂种指数虽都介于双亲的中间值, 但各自偏向母本, 且有些性状表现出超亲趋向。同时, 观察到由于杂交的互补作用, 杂种F₁: 不仅组合了某些有利的形态学性状, 而且提高了杂种的有关经济性能。如红柏F₁: 生长快于双亲; 镜柏F₁: 和柏镜F₁: 的头变小, 3个杂种F₁的鳃耙数增加, 摄食范围扩大和起捕率明显提高等。在此基础上, 如进一步用回交等选育方法, 可望育成一个以浮游生物为食, 起捕率高和生长快的鲤鱼新品种。

关键词

分类号

Comparative Studies on the Inheritance of the Major Morphological Traits of *Cyprinus pellegrini*, *C. carpio* (scattered), *C. carpio* (red carp) and Their Hybrid F₁

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Abstract

The morphological characteristics of the 3 hybrid combinations F₁ and their parents through the heterocross of Mirror carp, Bou's carp and Red carp. The apparent differences were observed in scale, body colour, head length, body height, gill rakers and so on between their parents and between the parents and the hybrid F₁. The hybrid F₁ from 3 hybrid combinations were in the median of their parents, but tended to their maternities and there were some characteristics appearing in superparents. At the same time, we also found the hybrid F₁ not only combined with some profitable morphological characteristics, but also increased the economical function with the cross complementation, such as the growth of Red Bou's carp F₁ was faster than their parents; the head length of Mirror Bou's carp became smaller and the gill rakers were increased, and the feeding range was expanded and the harvesting rate enlarged in 3 hybrid F₁. All of these made it possible to select new race that will be more easily harvested and chiefly fed on plankton.

Key words

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扩展功能

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