三倍体草鱿杂种及其双亲的红细胞(核)大小和DNA含量¹⁾ 刘思阳2),李素文

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采用血液涂片、Wright和Giemsa染色、CMSD微测目镜数显仪测量草鱼、兰角鱿及其杂交一代(简称草妨杂<mark>▶把本文推荐给朋友</mark> 种)的红细胞和核的大小。草m杂种红细胞和核的面积明显增大,其中比草鱼的红细胞和核都增大1.3倍,比三角 鳍的红细胞和核分别增大1.3和1.5倍。用F}ulgen染色,MP V--II型显微分光光度计测定草鱿杂种及其双亲的红细 胞DNA含量,草鱿杂种的红细胞DNA相对含量分别是草鱼和三角舫的1.57和1.27倍,也表现出增大的现象,作者认 为草纺杂种是一个通过杂交产生的异源多倍体。另外,本文还就鱼类多倍化形成的途径及其应用作了探讨。

草鱿; 三角鱿; 红细胞(核)测量; DNA含量; 三倍体 关键词

分类号

On the Erythrocyte Nucleus Size and DNA Contents of Ctenopharyngodon idellus, Megalobrama terminalis and F, Hybrid

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Abstract

The size of erythrocyte and nucleus of Ctenopharyngodon idellus, Megalobrama terminalisand their F, hybrid were ineasured by dyeing in Wright. Those of the F, hybrid increaseobviously. The size of erythrocyte and nucleus of the FI hybrid increase 2.3 times than Cteno--pharyngodon idellus and increase 2.3 times and 2.5 times separately than Megalobrama terminalis. The relative DNA content of erythrocyte of the F, hybrid is 1.57 times that of Ctenopharyngodonidellus and is 1.27 times that of Megalobrama terminalis, measureing with MPVI1microspectrophotometer. We feel that the F, hybrid is a heterogenetic polyploid by hybridize, maybe the mechanism formed polyploid is the endomitosis. In addition, the author studied the chromosomes. It is found that the F, hybrid is a triploid fish and the amount of chromosomesis seventy-twe but the parents both are diploid fish and the amount of chromosomesare forty-eight. It is shown that the DNA content is redoubled and the nucleus and cell arealso increased in proportion to it with the polyploidy occuring or genome repeating.

Key words Ctenopharyngodon idellus; Megalobrama rerminalis Erythrocyte measure DNA content Triploid

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