

应用BrdU-Hoechst 33258-Giemsa 技术对鲫鱼性染色体的研究

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摘要 鱼二倍体染色体数目为 $2n = 100$ 。应用BrdU-Hoechst 33278-Giemsa技术及C带技术研究表明, 鲫鱼性别决定为XY型。B, 染色体可能是性染色体, 其短臂(B2-P区)是与性别决定有关的区域, 是晚复制的, 是C带区。在复制行为, 及C带分布上均出现与性别相关的规律性表现。在复制晚期阶段, 雌性个体的该区域是同步复制的; 雄性个体的该区域则是异步复制的。在C带分布上, 雌性两个该区域均为C带深染, 雄性则只有一个呈深染, 另一个则呈浅染。

关键词
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A Study of Sex Chromosome in *Carassius auratus* by BrdUHoechst 33258-Ciemsa Technique

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Abstract

The time sequences of DNA replication in the chromosomes of 2 male ,and 3 female common carps were studied with a modified BrdU-Hoechst 33205-8-Giemsa technique,using the asynchronized cultivated lymphocytes and kidney ce11s in vitro. It was found that the sex determination of *Carassius auratus* was of XX/XY type, chromosome pair No. 2 in B group was probably the sex chromosome, of which the short arms were the latest in the, replication in karyotype of all observed individuals. We culded the regions B2-P. The two B2-P replicated synchronously in female animals, but asynchronously in male, The replicative heteromorphism occurred in late S phase. The above-mentioned regions were C-banding dark staining both in female and one dark but another bright in male.

Key words

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