

## 鱼类染色体G-显带的BrdU-BSG方法及白鲢G-带模式图的初步建立\*

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收稿日期 修回日期 网络版发布日期 接受日期

**摘要** 本文报道了一种显示鱼类染色体G-带的BrdU-BsG方法。采用肾细胞短期培养, 收获前12小时加入BrdU, 使终浓度为10 $\mu$ g/ml。制片经HCL、Ba(OH)<sub>2</sub>处理, 4 $\times$ SSC温育, Giemsa染色, 显示出白鲢的G-带。其带纹细致清晰, 一个细胞的单倍染色体上显示带纹达200条以上, 是目前已报道的鱼类多重带中带纹最多的, 且反差明显, 带纹有特征性, 结果较稳定。根据实验结果初步建立了白鲢的G-带模式图。

**关键词** [白鲢,G-带,BrdU-BSG方法,模式图](#)

分类号

## A BrdU-BSG Method for G-banding in Fish Chromosomes and an Idiogram of G-banded Karyotype of Silver Carp

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### Abstract

A BrdU-BSG method is described for demonstration of G-banding in fish chromosome s. It involves culturing the kidney cells ,treating cells with a final concentration of 10 $\mu$ g/ml BrdU for 12h before harvest. The air-dried slides are the treated in HCl and Ba(OH)<sub>2</sub>, incubated in 4 $\times$ SSC solution, and stained in Giemsa. Using this method, G-banding in the chromosomes of silver carp (*Hypophthalmichthys moritrix*) was observed with excellent results. There are at least 200 fine and distinct bands in the chromosome of a cell. An idiogram of G-banded karyotype of *Hypophthalmichthys moritrix* is constructed according to the experimental data.

**Key words** [Hypophthalmichthys moritrix](#) [G-banding](#) [BrdU-BSG method](#) [Idiogram](#)

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