

## 真核生物染色体超级结构研究<sup>①</sup> I. 家猪中期染色体超级结构研究

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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** 用自行设计的多级光学放大系统, 观察到染色体上15nm大小的细微结构, 用以研究致密状态的中期染色体超级结构, 结合细胞化学技术, 用特导性染色显示DNA-核蛋白、酸性骨架蛋白在染色体中的构象。本文发表了家猪染色体超级结构的天然形态-螺旋构型照片, 描述了染色体螺旋结构的特征及基参数, 提出了染色体超级结构的动态螺旋模型。

**关键词** [染色体](#) [超级结构](#) [有丝分裂](#)

分类号

## Study of Super-structure of Eukaryotic Chromosomes<sup>①</sup> I. The Super-structure of Metaphase Chromosomes in Pigs

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### Abstract

The super-structure of fine and close metaphase chromosomes was studied with the optical micro-multistage amplifying system designed by author himself, which could show the fine structure about 15nm in diameter of chromosomes. The micrographs of chromosomal super-structure made of DNA-nuclear protein or non-histone protein were shown respectively in the present paper. The chromatids were composed of long fibres about 20-30nm in diameter in a regular helical form directly. The characters and parameters of chromosomal super-structure were described, and a dynamical helical model of the chromosomal structure was suggested.

**Key words** [Chromosome Super-structure](#) [Mitosis](#)

DOI:

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