

中国四种龟的细胞遗传研究

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摘要 本文研究了我国四种龟类动物的核型、C带和Ag-NORs。结果表明金头闭壳龟的核型 $2n=52$ (14M+2SM+4ST+6T+26m), NF=72, 核型模式为8+5+13, 一对次缢痕位于I组的No. 1 p inter; 三线闭壳龟核型 $2n=52$ (12M+4SM+4ST+6T+26m), NF=72, 8+5+3; 黄缘盒龟的核型 $2n=52$ (16M+4ST+6T+26m), NF=72, 8+5+13, 一对次缢痕位于I组No. 1 p inter; 黄额盒龟 $2n=52$ (16M+2SM+4ST+6T+24m), NF=74, 9+5+12, 有4对次缢痕, 分别位于I组的No. 1 p inter, No. 3 p per, No. 7 p per和No. 6(X染色体) q per。黄额盒龟有1对异型(XY型)性染色体, 其余3个种没有。这四种龟的全部染色体都出现着丝粒区C带正染。它们都仅出现1对Ag-NORs, 其中黄额盒龟的Ag-NORs位于II组的No. 5 q per, 其余3个种的Ag-NORs位于I组的No. 7 q ter。本文还阐述了近缘种间核型的演化机制和黄额盒龟性染色体分化的途径。

关键词 [闭壳龟属](#) [盒龟属](#) [核型](#) [C带带型](#) [Ag-NORs](#)

分类号

A Cytogenetic Study of Four Species of Turtle from China

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Abstract

The karyotypes, C-banding and Ag-NORs of four species of turtle from China have been studied. The results demonstrated that *Cuora aurocapitata* has $2n=52$ (14M+4SM+4ST+6T+26m), NF=72, 8+5+13(karyotypic formulae). Its secondary constrictions(SC) located on No1 p inter of group I; *C. trifasciata* has $2n=52$ (12M+4SM+4ST+6T+26m), NF=72, 8+5+13; *Cistoclemmys flavomarginatus* has $2n=52$ (16M+4ST+6T+26m), NF=72, 8+5+13. The SC is also on No. 1 p inter of group I; *C. galbinifrons* has $2n=52$ (16M+2SM+4ST+6T+24m), nf=74, 9+5+12. Four pairs of SC of *C. galbinifrons* are on No. 1 p inter, No. 3, 7 p par and No. 6(X chromosome) q per of group I. The heteromorphic chromosomes related with sexuality were discovered in *C. galbinifrons*, while there is no that in other three species. All the centromeric regions of the chromosomes for the four studied species showed the various degree staining of C positive. Only one homologous pair of Ag-NOR is found for *C. galbinifrons*, which locate on No. 5 q per of group II. The Ag-NOR of other three species lies in No. 7 q ter of group I. The mechanism of the karyotypic evolution is discussed. Individual evolutionary mechanism of an heteromorphic sex pair of chromosomes.

Key words [Cuora](#) [Cistoclemmys](#) [Karyotype](#) [C-banding pattern](#) [Ag-NORs](#)

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