

鹰科四种鸟类线粒体DNA的差异和分子进化关系的研究 Phylogenetic Relationships among Raptor (Falconiformes: Accipitridae) Based on Cytochrome b DNA Sequence

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摘要 采用聚合酶链反应,从雀鹰、大鸮、秃鹰、灰脸鵟鹰4种鸟类中分别扩增出线粒体DNA细胞色素b基因,并测定出1086bp的碱基序列,它们之间的序列差异在10.31%~16.57%之间. DNA一级序列数据显示,这4种鸟类DNA序列变异丰富,MEGA1.01数据软件构建了4种鸟类的分子系统树,与化石资料和形态学研究结果相吻合。

Abstract:Using well-known PCR techniques,we amplified and sequenced a 1086 basepair fragment of the Cytochrome-b DNA sequence from 4 species of raptors in China.Primers based on the published gallus domesticus sequence were used to generate initial sequences that were subsequently used to design raptor sepecific primers for internal sequencing.Relationship were estimated using Parsmony analysis and boot strapping.Levels of mitochondrial DNA divergence ranged from 10.31%~16.57% among species of raptors and 17.59%~18.60% between raptors and the outgroups.Our data showed that the variation rate of mitochondrial DNA Cytochrome b is in line with the fossil record of geological age.

关键词 [鹰科](#) [线粒体DNA](#) [细胞色素b](#) [分子进化](#) **Key words** [Accipitridae](#) [mitochondrial DNA](#) [cytochrome b](#) [molecular evolution](#)

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