

几种鳄分子系统发生的探讨 The Molecular Phylogeny of Four Crocodilians Based on the Sequence of Mitochondrial ND4 and Cyt b Gene

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摘要 百年来关于扬子鳄的分类学位置存在着很多争议,本文测得扬子鳄、暹罗鳄和湾鳄的mtDNAND4和Cytb基因,并从GenBank中获得密西西比鳄和海龟的ND4基因和Cytb基因相应片段.用ClustalX1.8进行对位排列,以海龟为外群构建分子进化系统树.结果显示:在鳄类动物中,扬子鳄与密西西比鳄的亲缘关系最近,两者ND4基因序列碱基差异为20.68%,而Cytb基因序列碱基差异为14.43%;但扬子鳄与密西西比与鳄的分类问题仍将有待进一步探讨。

Abstract:A portion of mitochondrial ND4 and cytochrome b gene of 3 species of erocodilian was sequenced.Additional homologous sequences of Alligator mississippinisis from GenBank were aligned together and compared with Cheloniamydas.The phylogenetic trees were reconstructed with the neighbor-joining (NJ) algorithm.Alligator sinensis ismore related to Alligator mississippinisis than others though the diversity of their mitochondrial ND4 gene reached 20.68% while Cyt b gene 14.43%.It needs further study to determine the phylogenetic relationships of Alligatorsinensis and Alligator mississi ppinisis.

关键词 [鳄](#) [ND4基因序列](#) [Cyt b基因序列](#) [分子系统发生](#) **Key words** [Crocodilian](#) [Mitochondrial ND4 gene](#) [Mitochondrial cytochrome b gene](#) [Phylogeny](#)

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