

人线粒体DNA 的信息结构

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摘要 本文报道了运用FORTRAN-77语言, 在SIRIUS-1微机上计算遗传信息的冗余结构 D1, D2, D3, 的程序。计算出人线粒体DNA (16569个核苷酸残基) 的H, =1.930554, H2=3.849254, H3=5.760944, D1= 0.069446, D2=0.011853, D3=0.0070110 D1, D2的结果表明, 人线粒体DNA的信息结构远比脊椎动物DNA的低级, 这支持线粒体的共生起源学说。并对D3的结果进行了分析, 对其意义作了初步探讨。

关键词 [人线粒体DNA; 遗传信息; 计算程序; 共生起源](#)

分类号

The Redundancy Structure of Human Mitochondrial DNA

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Abstract

A computer program for the calculation of D1, D2, D3 of redundancy structure of genetic information was described in this paper. The results of computation of redundancy structure of human mitochondrial DNA were: H1=1.930554, H2 =3.849254, H3=5.760944, D1=0.069446, D2=0.011853, D3=0.007011. The values of D1 and D2 showed that the degree of organization of human mitochondrial DNA was lower than that of DNA of vertebrates, which implied the symbiogenic origin of mitochondria. The value of D3 and its significance were also discussed.

Key words [Human mitochondrial DNA](#) [Genetic information](#) [Program for computing;](#) [Symbiogenic origin](#)

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