部分植物细胞器基因组向核基因组转移片段的差异分析

摘要 在许多物种中，均发现了线粒体DNA和叶绿体DNA向核基因组中转移的现象。其中，线粒体转移片段简称为NUMT，叶绿体转移片段简称NUPT。我选取了一些核基因组和细胞器基因组均已拼接完成的物种，包括褐藻、拟南芥、棉花、玉米等十余种植物。在这些物种中，均发现了NUMT和NUPT的存在。我分析了各物种NUMT和NUPT片段的大小、转移次数（transfer rate）等等，探究造成种种差异的可能原因。

ABSTRACT The transfer of mitochondrial DNA (mtDNA) and plastid DNA(cpDNA)into nuclear genomes is a regularly occurring process that has been observed in many species.

Among them, mitochondrial transfer fragment referred to as NUMT, chloroplast transfer fragment referred to as NUPT. I have selected some nuclear genomes and organelles genome have been spliced to complete the species, including brown algae, Arabidopsis thaliana, cotton, corn and other ten kinds of plants. In all these species, the presence of NUMT and NUPT was found. I analysed the size, number of transform of NUMTs and NUPTs ,and explored the possible causes of various differences.