

中国蒙古马与国外纯血马mtDNA D-Loop高变区序列比较Sequence Comparing of mtDNA D-Loop Varied Region in Chinese Mongolian Horse and External Thoroughbred Horse

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摘要 比较分析了4匹中国蒙古马和4匹国外纯血马的线立体DNA (mtDNA) D-Loop高变区400bp核苷酸序列的变异情况。结果发现, 4匹中国蒙古马mtDNA D-Loop高变区的平均核苷酸变异率为3.69%, 而纯血马的为4.00%, 其核苷酸变异类型均包括转换、颠换和缺失3种形式, 其中以转换最为常见。核苷酸变异基因座多, 并且存在长度变异, 不同变异在个体之间差异也很大, 因此说明中国蒙古马和国外纯血马的mtDNA D-Loop高变区都具有丰富的多态性。Abstract: Mitochondrial DNA D-Loop varied region 400bp sequence variations in 4 Chinese Mongolian horses and 4 External Thoroughbred horses were analyzed in this experiment. The results showed that the average nucleotide mutational rate of mtDNA D-Loop varied region in 4 Chinese Mongolian horses was 3.69%, while External Thoroughbred horses were 4.00%. Three types of mutations including transition, transversion and deletion were all found in the investigated mtDNA D-Loop regions, of which transition was the most frequent. Nucleotide mutational loci were abundant, length mutations were found and great differences were all observed among the 8 horses. It showed there existed much polymorphism in the mitochondrial DNA D-Loop varied region of Chinese Mongolian horses and External Thoroughbred horses.

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