

黄牛Ag-NOR染色体联合的类型和频率 Type and Frequency of Ag-NORs Combination of Cattle (Bos taurus) Breeds in China

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摘要 用银染技术对中国4个黄牛品种(蒙古牛、秦川牛、岭南牛和西镇牛)40头牛的Ag-NOR联合的类型和频率进行了分析.结果表明,黄牛每个体细胞Ag-NOR联合可出现一个、两个或多个;蒙古牛、秦川牛、岭南牛和西镇牛Ag-NOR联合的频率分别为0.135、0.149、0.146和0.153.其中有一个联合的细胞占总的有联合细胞的比率分别为0.802、0.891、0.861和0.871.牛Ag-NOR联合的类型可分为链状联合,对称联合,环状联合和堆集联合4种,其中链状联合占60%~70%以上,对称联合占20%~30%.后两种占5%~10%.经分析表明,Ag-NOR联合的类型和频率可能具有种族特征,而不存在品种差异。

Abstract:The type and frequency of Ag-NORs combination of 40 individuals of four native cattle breeds (Mongolian, Qinchuan, Lingnan and Xizhen cattle) in China were analyzed by silver staining technique. The results showed that one, two or more Ag-NORs combinations appeared in metaphase cells of the cattle. The average frequency of Ag-NORs combination in each metaphase cell of Mongolian, Qinchuan, Lingnan and Xizhen cattle breeds was 0.135, 0.149, 0.146 and 0.153 respectively. Four types of Ag-NORs combination: cateniform with frequency 60%~70%, symmetry with 20%~30%, circularity and pile with 5%~10% were observed. The analysis showed that the type and frequency of Ag-NORs combination could perhaps be species characteristics and not breed characteristics. ~

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