

猪的雌雄连锁图谱的比较研究 Comparison between the Female- and Male-linkage Maps in Pigs

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收稿日期 修回日期 网络版发布日期 接受日期

摘要

用统计的方法, 对以一个商品猪群为参考家系, 采用163个微卫星标记和3个I-型分子标记 (RYR1、PRKAG3、PIT1) 构建的猪常染色体雌、雄连锁图谱的长度进行了比较。结果表明, 常染色体的雌性连锁图谱的总长度为2625.9 cM, 雄性连锁图谱的总长度为2259.7 cM, 二者比率为1.16 : 1; 除了1号和14号染色体以外, 其余染色体的雌性连锁图谱的长度均比雄性连锁图谱长。1、3、5、6、7、8、10、11、12、13、14、16、17、18号染色体的雌雄连锁图谱的长度差异极显著 (P<0.01); 9号染色体的雌雄连锁图谱的长度差异为显著 (P<0.05); 2、4、12、15号染色体的雌雄图谱的长度差异不显著。

Abstract: The difference between the length of female- and male-linkage map, which was created with a reference pedigree based on a commercial porcine population and using 163 microsatellite markers as well as 3 type-I markers (RYR1, PRKAG3, PIT1), was statistic analyzed. The results showed that the total length of female linkage map of autosomes is 2625.9 cM and the total length of the male linkage map is 2259.7 cM; the ratio between the total length of the female- and male-linkage maps is 1.16 : 1; except for the chromosomes 1 and 14, the female linkage maps of the other chromosomes are longer than the male linkage maps. The difference between the length of female- and male-linkage maps of chromosomes 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14, 16, 17 and 18 is very significant (P<0.01) and the difference of chromosome 9 is significant (P<0.05); but there is no significance on chromosomes 2, 4, 12 and 15.

关键词 [猪](#) [微卫星](#) [雌性连锁图谱](#) [雄性连锁图谱](#) Key words [pig](#) [microsatellite](#) [female linkage map](#) [male linkage map](#)

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