

研究报告

利用放射杂交克隆板进行猪 *FMR1* 等5个基因间的连锁分析

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摘要

放射杂交技术在人类图谱(包括ESTs、STSs和微卫星)的构建中已证明是一种非常有效的方法。根据人类基因组X染色体上*FMR1*、*IDS*、*FATE*、*BGN*、*F8A*等5个基因的信息资源,用已构建的猪/仓鼠96个放射杂交细胞系分析猪染色体该5个基因间的连锁关系。结果显示:当LOD值为4时,*FMR1*、*IDS*、*FATE*、*BGN*、*F8A*都处于同一个连锁群内;当LOD值为5时,*FMR1*、*IDS*处于同一个连锁群,*FATE*和*BGN*在同一个连锁群内,而*F8A*单独处于一个连锁群中。

关键词 [猪; 放射杂交; 杂交体克隆板; 基因连锁分析](#)

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Linkage Analysis of Five Genes in Pigs Using Radiation Hybrid Clone Panel

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Abstract

RH (radiation hybrid) has proved to be an effective method in constructing human genome maps (including ESTs, STSs and microsatellites). In this study, based on the information of five human genes (*FMR1*, *IDS*, *FATE*, *BGN*, *F8A*) on the X chromosome, the linkage relationship of these five genes in pigs were analyzed by a panel of 96 radiation hybrid cell lines. The results showed that *FMR1*, *IDS*, *FATE*, *BGN*, *F8A* were in the same linkage group, when LOD was set at 4. When LOD was set at 5, *FMR1* and *IDS* were in the one group, *FATE* and *BGN* in the other group, and *F8A* was in a group by itself.

Key words [pig](#) [radiation hybrid](#) [hybrid clone panel](#) [gene linkage analysis](#)

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