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SCREENING OF EXON 51 AND SUBCLONE OF INTRONS 50 AND 51 ON BOTH SIDES OF THE EXON 51 IN DYSTROPHIN GENE

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The clone containing exon 51 of dystrophin gene was screened from Human X Chromosome Phage Library and identified by Southern blot hybridization with the probe cDMD₈. The subclone sites of enzyme *Kpn* I and *Hind* III were determined by means of the fine scale map of dystrophin gene. So the subclones containing introns 50 and 51 which linked to exon 51 of dystrophin gene were obtained, which is the basis of the DNA sequences of intron 50 and 51 were analysed.

Key words dystrophin gene; introns 50 and 51; subclone

·新成果·

精液、阴道液几种同工酶的研究

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精液、阴道液分别是男女生殖系统中有重要意义的分泌液,其新陈代谢十分活跃,因而具有相应的同工酶。作者对精液、阴道液、血液几种同工酶进行了系统的研究,调查了大批人群的 PGM₁亚型、ESD、EAP、GLOI的分布,计算出了 PGM₁、ESD、EAP 亚型的基因频率,证明了精液的 PGM₁亚型及 GLOI 表型与血液的完全相同,无精子精液也能测出这些同工酶型。阴道液的 PGM₁亚型、ESD、GLOI 等表型除部分同工酶活性低下外,大部分与血液的完全相同,而刺激会增强某些阴道液的同工酶的活性。该研究提高了精液/阴道液混合斑的鉴别率,在法医学上有创新性和应用价值,也为性生理、生殖系统疾病及其遗传因素的研究提供基础资料。该成果在全国范围的公检法部门得到推广,收到了良好的社会效益。对健全和加强我国社会主义法制起了积极作用。1992获国家教委科技进步三等奖,同获广东省医药卫生科技进步二等奖。

(陈丽芳)