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水产动物遗传连锁图谱的研究现状及应用展望 Current Status and Future Perspective of Genetic Linkage Mapping in Aquaculture Species

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摘要 综述了近年来遗传连锁图谱在水产生物中的研究现状，包括作图群体、作图方法等，并对连锁图谱的应用前景作了展望，指出其在分子标记辅助育种、基因定位与克隆及比较基因组学等方面的应用潜力。

Abstract:Constructing genetic linkage map is an essential tool to acknowledge genome in aquaculture species.This paper has reviewed the current status of genetic linkage map research,including mapping population,mapping method and molecular markers used to construct linkage map.Linkage map has great potential in marker assisted selection (MAS),gene locating and cloning,and comparative genome mapping.Genetic linkage map with high density and wide coverage of genome will allow cloning the genes which contribute to economically important traits.The ultimate aim of the constructing linkage map is the development of fast-growing,disease-resistant strains of the major aquaculture species.

关键词 遗传连锁图谱 水产动物 分子标记辅助育种 基因定位与克隆 比较基因组学 Key words genetic linkage map aquaculture species marker-assisted selection gene clone comparative genome mapping

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