

综述

全基因组扩增技术最新进展及其法医学应用现状

陈玲

南方医科大学法医学研究所

收稿日期 2006-5-21 修回日期 2006-9-14 网络版发布日期: 2007-3-29

摘要 微量模板DNA的检测, 是很多领域迫切需要解决的一个难题。因为其DNA量不足, 用现有的技术手段常无法检测成功。全基因组扩增技术可对非常微量的DNA进行均衡的扩增而获得大量的DNA, 故被认为是目前解决这一难题的一种基本方法, 已被广泛用于法医学、单细胞遗传病的诊断及疾病基因的分析等领域研究, 并取得了良好的效果。本文对这一技术的最新研究进展及其在法医学方面的应用现状做一综述。

关键词 [全基因组扩增](#) [微量模板DNA](#) [法医学](#)

分类号

Advancement of Whole Genome Amplification and its Current Application in Forensic Science

Li ng Chen

Abstract Genetic analysis of minute amount DNA is a urgent and difficult task in many fields, because its DNA quantity is insufficient for routine genetic analysis. DNA can be amplified uniformly to reproduce abundant quantities of DNA by a Whole genome amplification (WGA) technology, so it has been thought to be a fundamental method for resolving this difficulty. WGA has already been applied to forensic DNA analysis, single cell genetic diagnosis and disease gene study, et al. And implementation of WGA has had tremendous effect on above all fields. In this review, we describe a recent development of WGA approaches and summarize its current application in forensic science.

Key words [Whole genome amplification](#) [Minute amount DNA](#) [Forensic medicine](#)

DOI

通讯作者 陈玲 chenlingpzy@yahoo.com.cn

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(691KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“全基因组扩增”的相关文章](#)

▶ [本文作者相关文章](#)

· [陈玲](#)