

<<从基因到基因组>>

图书基本信息

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内容概要

基因技术、遗传工程、重组DNA和基因克隆等技术的快速发展，把分子生物学推到了生命科学的前沿。

本书对分子生物学核心技术的原理及其使用进行了简明扼要的阐释。

以对分子生物学的基本概念的简短介绍开篇，然后介绍核心的分子生物学方法及其整合运用，从单个基因的克隆与研究到整个基因组的测序，以及基因组信息的分析。

最后，本书还介绍了这些技术在生物技术、医药和农业以及整个生命科学研究中的应用。

本书内容涵盖了分子生物学基础、基因克隆、核酸的纯化与分离、DNA的剪切与连接、载体、基因组文库和cDNA文库、聚合酶链反应、DNA测序、序列数据分析、基因变异分析、基因表达分析、基因功能分析、医药应用、转基因等等方面。

本书适于生物化学、分子生物学、遗传学、细胞生物学、生物技术、生物工程等相关学科及研究领域的本科生、研究生及教学科研人员参考使用。

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