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ngs dna sequencing technology has revolutionized genomics research. ngs can sequence millions of dna fragments at once providing detailed information about the structure of genomes genetic variations gene activity and changes in gene behavior. ngs technology has rapidly evolved over the past 15 years and new methods are continually being commercialized as the technology develops so do increases in the number of corresponding applications for basic and applied science. next generation sequencing ngs massively parallel or deep sequencing are related terms that describe a dna sequencing technology which has revolutionised genomic research using ngs an entire human genome can be sequenced within a single day. there are two major paradigms in next generation sequencing ngs technology short read sequencing and long read sequencing. short read sequencing approaches provide lower cost higher accuracy. next generation dna sequencing has the potential to dramatically accelerate biological and biomedical research by enabling the comprehensive analysis of genomes transcriptomes and. short read ngs or second generation sequencing refers to the next advancement of sequencing technologies after traditional first generation sanger sequencing the common feature of short read technologies is massive sequencing of short 250 800 bp clonally amplified dna molecules sequenced in parallel. next generation sequencing ngs is a massively parallel sequencing technology that offers ultra high throughput scalability and speed the technology is used to determine the order of nucleotides in entire genomes or targeted

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