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Cloning is the process of producing individuals with identical or virtually identical DNA, either naturally or artificially. In nature, many organisms produce clones through asexual reproduction. Cloning in biotechnology refers to the process of creating clones of organisms or copies of cells or DNA fragments (molecular cloning).. The term clone, coined by Herbert J. Webber, is derived from the ...

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Last Updated on January 13, 2020 by Sagar Aryal. Next Generation Sequencing (NGS) Next Generation Sequencing (NGS) is a powerful platform that has enabled the sequencing of thousands to millions of DNA molecules simultaneously.; Next-generation sequencing (NGS), also known as high-throughput sequencing, is the catch-

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all term used to describe a number of different modern sequencing technologies.

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Author summary Giardia duodenalis is a globally distributed enteric parasite, and the most detected intestinal protozoan in children. Infection by this pathogen can evolve from asymptomatic to chronic disease with a range of gastrointestinal manifestations including diarrhoea. In endemic areas, early infection in childhood can contribute to impaired growth and cognitive function.

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Molecular cloning is the laboratory process used to create recombinant DNA. It is one of two most widely used methods, along with polymerase chain reaction (PCR), used to direct the replication of any specific DNA sequence chosen by the experimentalist. There are two fundamental differences between the methods.

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setup, to aid in the diagnosis of allergy and autoimmune diseases.

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Forensic Science is the application of principles of chemistry, molecular biology, and physics to matters of the law. Forensic scientists develop a deep understanding of and hands-on lab experience in serology, biochemistry, and forensic molecular biology, with particular emphasis on forensic DNA analysis.

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RNase-resistant, noninfectious virus-like particles containing exogenous RNA sequences (armored RNA) are good candidates as RNA controls and standards in RNA virus detection. However, the length of RNA packaged in the virus-like particles with high efficiency is usually less than 500 bases. In this study, we describe a method for

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promising to accelerate crop improvement. Here, we review advances in CRISPR/Cas9 and its variants and examine their applications in plant genome ...

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