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The Importance of DNA Synthesizers by [James Blee](#)

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For long, DNA has been one of the major subjects of research all across the World. The full form of DNA is Deoxyribo-nucleic acid which is considered to be one of the most important substituent of the human body. Majority of the diseases present in the World today can easily be cured by acquiring more knowledge and treating the defects of the DNA. This requires building up the DNA in a customized manner so that it contains the required sequence of nucleotides..

A DNA synthesizer is defined as that particular machine which has the ability to synthesize a given sequence of oligonucleotides. A DNA synthesizer or an oligonucleotide synthesizer is available in a broad range of varieties and is suitable for carrying out many applications. The functioning of these synthesizers is based on the methods developed by eminent scientists and help in the process of copying a strand of DNA into a biological cell. DNA synthesizers carry out a wide variety of applications within the domain of DNA and RNA synthesis. The functionality of oligonucleotide synthesizers depends upon the required number of custom oligonucleotides.

The various applications of DNA synthesizers include dual labeled probes, sequencing, PCR, microarrays and antisense experiments. The synthesizers which help in studying and understanding nucleotide sequences within a given sample of DNA are known as DNA sequences. The major reasons behind the increased sales of these synthesizers are the ability to deliver high quality synthesis, chemical usage in a cost efficient and effective manner, scalability along with the excellent technical support and customer service offered by the company. The most common places which make an extensive use of DNA synthesizers are pharmaceutical companies, national laboratories and some major Universities all across the World.

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