

ASPECTS OF MEDICAL BIOTECHNOLOGY

Yasmin Aigbodesi Braimah

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Biotechnology has touched all aspects of health and [agriculture](#). Biotechnology is an important field that is applied to these sectors with the aim of improving the different targeted genes and customized medicines. There are numerous methods applied to biotechnology such as gene treatment, recombinant DNA technology. A more targeted approach is called polymerase establishment revenge which uses genetics along with DNA particles to make a projected illness and put in replace them with healthy genes in the physical body in place of the harmed cells.

BIOPHARMACEUTICAL

Through advanced methods in biotechnology, biopharmaceuticals were produced safely and quickly for treating illnesses. Furthermore, biopharmaceuticals do not contain any chemicals and use targeted organisms to synthesize the medicine successfully. Big molecules of proteins are the typical origin of biopharmaceuticals. When they are inside the human body, they target dangerous and hidden parts of the disease and obliterate them. Today, scientists and researchers are aiming to extend and develop biopharmaceutical medicines which can be used to fight diseases related to heart, hepatitis and cancer.

PHARMACOGENOMICS

Pharmacogenomics is the technique that leverages the person's heredity information to choose the best biotechnological medicine for their illness. This studies the body system's response to certain medications. To put it simply, this is the combination of advances in pharmaceuticals along with genomics. The end goal of this application is to improve medicines that are specifically targeted to a person in lieu with his genetic makeup to ensure effective treatment of illness.

RAPID DEPLOYMENT OF VACCINES

A global pandemic is a real issue and has always proven its powerful grip on humanity. Through Biotechnology, scientists and researchers can quickly pinpoint precursors or markers that can cause severe illnesses and diseases. As a result, they can synthesize vaccines quickly against any dangerous pandemic sickness. In [a](#)

[study on vaccines and biotechnology](#), researchers found a great decline in illnesses when patients were administered with a vaccine produced through biotechnology.