

# Cancer Cytokines Therapy Pipeline Analysis

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## Abstracts

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Cytokines, a major group in the protein therapeutics umbrella, are known to be soluble extracellular proteins or glycoproteins which are crucial intercellular regulators, having the capacity to mobilize the cells which are engaged in innate as well as adaptive inflammatory host defenses, cell growth, differentiation, cell death, angiogenesis, and development and repair processes aimed at the restoration of homeostasis. These proteins are being used mostly for cancer patients due to their capability to stop tumor growth. Cytokines are considered to be a large, diverse group of extracellular proteins which are produced by the immune system cells. These cytokines have the capacity to be bound by the cytokine receptors on the targeted cells. This process initiates a signaling cascade within those cells.

The growth in the cytokines market is mainly driven by its increased application for cancer treating methods, along with an increased spending on research and development, advances in technology, patent expiries, and rising competition. Cytokines are related to almost all the therapeutic protein drug development processes. The cytokine and growth factor related products include antibodies, proteins and nucleic acid probes which are being extensively used in a wide variety of applications from the basic research laboratory through the drug discovery process, to in vivo therapeutic use. The companies producing these proteins are focusing their strategy on offering high quality products at more than competitive prices.

It is expected that in the next 4-5 years, the pharma companies would focus more on the development of successful cancer therapies based on cytokines. The allocation of resources should necessarily reflect ongoing, strategic prioritization of candidates in the pipeline. With the progress of trials and accumulation of information on the safety and efficacy of new cytokines products, there is an urgent demand for strategizing the

product pipelines and the prioritization of the decisions. This segment has proved to be the most important investment to control the sprawling rise in cancer incidence rates. Also, from a commercial viewpoint, these cytokine products are likely to churn significant revenues and for the patient population, and eventually are expected to improve the survival rates and improve quality of life.

“Cancer Cytokines Therapy Pipeline Analysis” Report Highlights:

Cancer Cytokines Therapy Market Overview

Marketed Drug Profiles & Patent Analysis

Clinical Trial Insight by Phase & Country

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Drug Class

## About

Proteins are a significant class of regulatory molecules in the body, and form an important segment of the entire healthcare system. These protein molecules with modified features are being produced with the help of genetic engineering technology.

Given the high specificity and low immunogenicity of protein therapeutics, these are currently being used in varied areas to treat many diseases which are life threatening. The functions of proteins in the human body come under a wide array which includes control of thinking, regulation of all physiological reactions, metabolizing carbohydrates and fats and defending the human body against bacteria and viruses. Additionally, these proteins also work as enzymes, potent hormones, antibodies, cytokines and signaling peptides which tend to transfer information into cells. Thus, the malfunctioning of some specific proteins tends to become the major cause of many diseases. Therapeutic proteins, which are also known as protein-based therapies or protein therapy, are proteins which are specially engineered in the laboratory to be used for pharmaceutical purposes. These are used for the treatment of cancer, infectious diseases, hemophilia, anemia, and hepatitis B and C.

Based on the type of protein the field of protein therapeutics is classified into the following categories:

Antibodies

Cytokines

Peptide hormones

Vaccines

Blood products

Peptide antibiotics

Enzymes

Cytokines, a major group in the protein therapeutics umbrella, are known to be soluble

extracellular proteins or glycoproteins which are crucial intercellular regulators, having the capacity to mobilize the cells which are engaged in innate as well as adaptive inflammatory host defenses, cell growth, differentiation, cell death, angiogenesis, and development and repair processes aimed at the restoration of homeostasis. These proteins are being used mostly for cancer patients due to their capability to stop tumor growth. Cytokines are considered to be a large, diverse group of extracellular proteins which are produced by the immune system cells. These cytokines have the capacity to be bound by the cytokine receptors on the targeted cells. This process initiates a signaling cascade within those cells.

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