

# CAR T-Cell Therapy for Acute Lymphoblastic Leukemia - Pipeline Insight, 2021

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## Abstracts

This report can be delivered to the clients within 48-72 Hours

DelveInsight's, "CAR T-Cell Therapy for Acute Lymphoblastic Leukemia - Pipeline Insight, 2021," report provides comprehensive insights about 5+ companies and 5+ pipeline drugs in CAR T-Cell Therapy for Acute Lymphoblastic Leukemia pipeline landscape. It covers the pipeline drug profiles, including clinical and nonclinical stage products. It also covers the therapeutics assessment by product type, stage, route of administration, and molecule type. It further highlights the inactive pipeline products in this space.

## Geography Covered

Global coverage

CAR T-Cell Therapy for Acute Lymphoblastic Leukemia Understanding

CAR T-Cell Therapy for Acute Lymphoblastic Leukemia: Overview

Acute Lymphoblastic Leukemia (ALL) also known as acute lymphocytic leukemia is a type of blood cancer that affects the lymphocytes a category of white blood cells and starts in the bone marrow (the soft tissue inside certain bones), the site for hematopoiesis. ALL progress rapidly, invade blood stream and spread to other organs such as liver, spleen, lymph nodes. ALL is prevalent in both children and adults. Exposure to radiations, hazardous chemicals such as benzene, and T-lymphocyte infection can raise the risk for ALL. Chimeric Antigen Receptor (CAR) T- Cell therapy

which make use of reengineered T cells to produce chimeric antigen receptor on cell surface to recognize and attack cancerous cells with specific antigen. This therapy has shown draconian success in the field of anti-tumor immunotherapy specifically for the treatment of B-cell malignancies.

“CAR T-Cell Therapy for Acute Lymphoblastic Leukemia - Pipeline Insight, 2021” report by DelveInsight outlays comprehensive insights of present scenario and growth prospects across the indication. A detailed picture of the CAR T-Cell Therapy for Acute Lymphoblastic Leukemia pipeline landscape is provided which includes the disease overview and CAR T-Cell Therapy for Acute Lymphoblastic Leukemia treatment guidelines. The assessment part of the report embraces, in depth CAR T-Cell Therapy for Acute Lymphoblastic Leukemia commercial assessment and clinical assessment of the pipeline products under development. In the report, detailed description of the drug is given which includes mechanism of action of the drug, clinical studies, NDA approvals (if any), and product development activities comprising the technology, CAR T-Cell Therapy for Acute Lymphoblastic Leukemia collaborations, licensing, mergers and acquisition, funding, designations and other product related details.

## **Report Highlights**

The companies and academics are working to assess challenges and seek opportunities that could influence CAR T-Cell Therapy for Acute Lymphoblastic Leukemia R&D. The therapies under development are focused on novel approaches to treat/improve CAR T-Cell Therapy for Acute Lymphoblastic Leukemia.

### **CAR T-Cell Therapy for Acute Lymphoblastic Leukemia Emerging Drugs Chapters**

This segment of the CAR T-Cell Therapy for Acute Lymphoblastic Leukemia report encloses its detailed analysis of various drugs in different stages of clinical development, including phase II, I, preclinical and Discovery. It also helps to understand clinical trial details, expressive pharmacological action, agreements and collaborations, and the latest news and press releases.

### **CAR T-Cell Therapy for Acute Lymphoblastic Leukemia Emerging Drugs**

#### **AUTO 3: Autolus**

AUTO3 is a programmed T cell therapy containing two independent chimeric antigen receptors targeting CD19 and CD22 that have each been independently optimized for

single target activity. The therapy is designed to minimize relapse due to single antigen loss in patients with B cell malignancies and is currently being tested for precursor cell lymphoblastic leukemia-lymphoma in its Phase I/II of clinical trials. The drug has also been designated with orphan drug status for precursor cell lymphoblastic leukemia.

#### PCAR019: PersonGen Biotherapeutics

Persongen's "breakthrough" therapy PCAR019 is currently being evaluated for the treatment of Acute Lymphoblastic Leukemia. The drug is in its phase I trial and targets the CD-19 which is expressed in most B-malignant tumors especially in the former B cells ALL.

Further product details are provided in the report.....

#### CAR T-Cell Therapy for Acute Lymphoblastic Leukemia: Therapeutic Assessment

This segment of the report provides insights about the different CAR T-Cell Therapy for Acute Lymphoblastic Leukemia drugs segregated based on following parameters that define the scope of the report, such as:

#### Major Players in CAR T-Cell Therapy for Acute Lymphoblastic Leukemia

There are approx. 5+ key companies which are developing the therapies for CAR T-Cell Therapy for Acute Lymphoblastic Leukemia. The companies which have their CAR T-Cell Therapy for Acute Lymphoblastic Leukemia drug candidates in the mid to advanced stage, i.e. Phase I/II include, Autolus and others.

#### Phases

DelveInsight's report covers around 5+ products under different phases of clinical development like

Mid-stage products (Phase II and Phase I/II)

Early-stage products (Phase I/II and Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

## Route of Administration

CAR T-Cell Therapy for Acute Lymphoblastic Leukemia pipeline report provides the therapeutic assessment of the pipeline drugs by the Route of Administration. Products have been categorized under various ROAs such as

Subcutaneous

Intravenous

Oral

Intramuscular

Molecule Type

Products have been categorized under various Molecule types such as

Small molecules

Natural metabolites

Monoclonal antibodies

## Product Type

Drugs have been categorized under various product types like Mono, Combination and Mono/Combination.

**CAR T-Cell Therapy for Acute Lymphoblastic Leukemia: Pipeline Development Activities**

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses CAR T-Cell Therapy for Acute Lymphoblastic Leukemia therapeutic drugs key players involved in developing key

drugs.

## **Pipeline Development Activities**

The report covers the detailed information of collaborations, acquisition and merger, licensing along with a thorough therapeutic assessment of emerging CAR T-Cell Therapy for Acute Lymphoblastic Leukemia drugs.

### **CAR T-Cell Therapy for Acute Lymphoblastic Leukemia Report Insights**

CAR T-Cell Therapy for Acute Lymphoblastic Leukemia Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

### **CAR T-Cell Therapy for Acute Lymphoblastic Leukemia Report Assessment**

Pipeline Product Profiles

Therapeutic Assessment

Pipeline Assessment

Inactive drugs assessment

Unmet Needs

## **Key Questions**

Current Treatment Scenario and Emerging Therapies:

How many companies are developing CAR T-Cell Therapy for Acute Lymphoblastic Leukemia drugs?

How many CAR T-Cell Therapy for Acute Lymphoblastic Leukemia drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of CAR T-Cell Therapy for Acute Lymphoblastic Leukemia?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the CAR T-Cell Therapy for Acute Lymphoblastic Leukemia therapeutics?

What are the recent trends, drug types and novel technologies developed to overcome the limitation of existing therapies?

What are the clinical studies going on for CAR T-Cell Therapy for Acute Lymphoblastic Leukemia and their status?

What are the key designations that have been granted to the emerging drugs?

## **Key Players**

Autolus

PersonGen Biotherapeutics

Pepromene Bio, Inc.

Actinium Pharmaceuticals

## **Key Products**

AUTO 3

PCAR019

BAFF-R-CAR-T

Apamistamab



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AUTO 3: Autolus

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report.....

Early Stage Products (Phase I/ II)

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PCAR019: PersonGen Biotherapeutics

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