

Natural Killer Cell Therapies - Pipeline Insight, 2021

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Abstracts

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DelveInsight's, "Natural Killer Cell Therapies - Pipeline Insight, 2021," report provides comprehensive insights about 100+ companies and 140+ pipeline drugs in Natural Killer Cell Therapies 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

Natural Killer Cell Therapies Understanding

Natural Killer Cell Therapies: Overview

Natural killer cells, also known as NK cells are a type of lymphocytes and are key components of the innate immune system. They are highly specific predators that play a major role in the host rejection of both tumors and viral infected cells. NK cell abnormalities have been observed in several cancer patients, including decreased cytotoxicity, defective expression of activating receptors or intracellular signaling molecules, overexpression of inhibitory receptors, defective proliferation, and decreased numbers in peripheral blood and tumor infiltrate, and defective cytokine production. NK cell therapy has been most successful in hematopoietic malignancies, such as leukemias. NK cell immunotherapy can be achieved by either activating endogenous NK cell response by administering NK stimulants or using exogenous NK cells via

HSCT or adoptive cell transfer. Several strategies for NK cell immunotherapies for human cancer have been proposed to date. NK cell immunotherapy can be achieved in several ways

'Natural Killer Cell Therapies - Pipeline Insight, 2021' report by DelveInsight outlays comprehensive insights of present scenario and growth prospects across the indication. A detailed picture of the Natural Killer Cell Therapies pipeline landscape is provided which includes the disease overview and Natural Killer Cell Therapies treatment guidelines. The assessment part of the report embraces, in depth Natural Killer Cell Therapies 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, Natural Killer Cell Therapies 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 Natural Killer Cell Therapies R&D. The therapies under development are focused on novel approaches to treat/improve Natural Killer Cell Therapies.

Natural Killer Cell Therapies Emerging Drugs Chapters

This segment of the Natural Killer Cell Therapies 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.

Natural Killer Cell Therapies Emerging Drugs

Monalizumab: Innate Pharma

Monalizumab (also known as IPH2201) is a first-in-class humanized IgG4 targeting NKG2A receptors expressed on tumor-infiltrating cytotoxic NK and CD8 T lymphocytes.

It is under development by Innate Pharma in Phase III stage for the treatment of Squamous Cell Carcinoma of the Head and Neck and in Phase II stage of development for the treatment of gynecological cancers, chronic lymphocytic leukemia, and head and neck cancer. It is in the Phase I stage of development for the treatment of advanced solid tumors and hematological malignancies.

NKTR-214 (Bempegaldesleukin): Nektar Therapeutics

NKTR-214 is designed to grow specific cancer-killing T-cells and natural killer cell populations in the body that fight cancer is known as endogenous tumor-infiltrating lymphocytes (TILs). NKTR-214 stimulates these cancer-killing immune cells in the body by targeting CD122 specific receptors found on the surface of these immune cells, known as CD8+ effector T cells and Natural Killer (NK) cells. CD122, which is also known as the Interleukin-2 receptor beta subunit, is a key signaling receptor that is known to increase the proliferation of these effector T cells.

ALT 803: ImmunityBio

ALT 803 is a novel IL-15 superagonist complex, with improved pharmacokinetic properties and enhanced anti-tumor activity compared to recombinant human IL-15. It has also shown to potently activate human effector NK cells and enhance antibody-dependent cell-mediated cytotoxicity (ADCC) of anti-CD20 antibodies against human lymphoma cells in various tumor models. It is under development by Altor Bioscience Corporation and is currently in Phase II/III for Bladder Cancer. It is in Phase II stage for the treatment of Acute Myelogenous Leukemia (AML); Non-muscle Invasive Blood Cancer, in Phase I/II stage for the treatment of Acute Lymphoblastic Leukemia (ALL); Myelodysplastic Syndromes (MDS); Multiple Myeloma; Advanced Pancreatic Cancer; Non-small Cell Lung Cancer and Relapsed/Refractory Indolent B Cell Non-Hodgkin Lymphoma. It is in Phase I stage for the treatment of Human Immunodeficiency virus (HIV) and Melanoma, Renal Cell, and Squamous Cell Head and Neck Cancer. It is developed by using IL-15 Protein Super agonist and Scaffold Technology and is administered by intravenous route.

ALECSAT: CytoVac

ALECSAT (Autologous Lymphoid Effector Cells Specific against Tumor-cells) is a

therapy that supplements and strengthens the patient's immune system so it can fight the cancer cells in the same way as the body originally should have reacted. Natural Killer Cells used, in the ALECSAT therapy attack, the cancer cells in several ways, as they can recognize more than one property of the cancer cells. ALECAST is being evaluated for breast cancer and newly diagnosed glioblastoma in Phase II.

PNK-007: Celularity

PNK-007 is a human umbilical cord blood-derived, culture-expanded natural killer cell therapy. The umbilical cord has CD34+ cells that are differentiated and expanded up to 50,000 fold over 35 days in a good manufacturing process (GMP) compliant facility to produce 12 billion cells that are 85% pure for NK cells without the use of a feeder cell line. These cells can be aliquoted and frozen for use at a later date. The CDK derived NK cells have substantial cytolytic activity against several human tumor cell lines, primary AML, and primary multiple myeloma cells. PNK-007 successfully completed pre-clinical studies for acute myeloid leukemia (AML) and multiple myeloma (MM) and is being evaluated in Phase I for the treatment of acute myeloid leukemia and Glioblastoma. PNK-007 is administered intravenously and developed by Cellular Therapeutics.

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

Natural Killer Cell Therapies: Therapeutic Assessment

This segment of the report provides insights about the different Natural Killer Cell Therapies drugs segregated based on following parameters that define the scope of the report, such as:

Major Players in Natural Killer Cell Therapies

There are approx. 100+ key companies which are developing the therapies for Natural Killer Cell Therapies. The companies which have their Natural Killer Cell Therapies drug candidates in the most advanced stage, i.e. phase III include, Innate Pharma.

Phases

DelveInsight's report covers around 140+ products under different phases of clinical development like

Late stage products (Phase III)

Mid-stage products (Phase II)

Early-stage product (Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

Route of Administration

Natural Killer Cell Therapies pipeline report provides the therapeutic assessment of the pipeline drugs by the Route of Administration. Products have been categorized under various ROAs such as

Intracranial

Intramuscular

Intratumoral

Intravenous

Intravenous

Parenteral

Subcutaneous

Molecule Type

Products have been categorized under various Molecule types such as

Small molecule

Antibodies

Beta Glucans

CAR-NK cell therapy

Cell Therapy

Gene therapies

Glycolipid

NK Cell therapy

NK T-Cell therapy

Oligodeoxyribonucleotides

Proteins

RNA

Stem cell therapies

Vaccines

Product Type

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

Natural Killer Cell Therapies: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Natural Killer Cell Therapies 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 Natural Killer Cell Therapies drugs.

Natural Killer Cell Therapies Report Insights

Natural Killer Cell Therapies Pipeline Analysis

Therapeutic Assessment

Unmet Needs

Impact of Drugs

Natural Killer Cell Therapies 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 Natural Killer Cell Therapies drugs?

How many Natural Killer Cell Therapies drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of Natural Killer Cell Therapies?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Natural Killer Cell Therapies 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 Natural Killer Cell Therapies and their status?

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

Key Players

ImmunityBio

Five Prime Therapeutics

Innate Pharma

Nektar Therapeutics

Cantargia

CureTech

Dynavax

Cellid Company

Kiadis Pharma

Multimmune GmbH

CytoVac

XNK Therapeutics

NantKwest

Green Cross Corporation

HiberCell

Bristol-Myers Squibb

Innate Pharma

Affimed Therapeutics AG

Wugen

Abivax

Glycostem Therapeutics (IPD Therapeutic)

Synimmune

GT Biopharma

Bellicum Pharmaceuticals

Asclepius Technology Company Group

PersonGen BioTherapeutics (Suzhou)

Chongqing Sidemu Biotechnology

Artiva Biotherapeutics

NKMax

Acepodia

Allife Medical Science and Technology

Bright Path Biotherapeutics

Kuur Therapeutics (Formerly Cell Medica)

Key Products

ALT 803

Bemarituzumab

Monalizumab

NKTR-214 (Bempegaldesleukin)

Nidanilimab

Pidilizumab

SD-101

BVAC-C

PD-L1.t-haNK

K-NK002

Enkastim

ALECSAT

CellProtect

Nk-92

haNk

MG4101

Imprime PGG

Lirilumab

IPH4102

AFM-13

WU-NK-101

ABX196

AFM24

PNK-007

Allogeneic Natural Killer Cell Therapy (oNKord)

FLYSYN

KNK-ID-101

GTB-3550

CAR-NK cells

DF1001

DF-6002

NKG2D-ACE2 CAR-NK Cells

AB-101

SNK01

NKTR-225

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Causes

Mechanism of Action

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Assessment by Stage and Route of Administration

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Assessment by Stage and Molecule Type

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Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report

Mid Stage Products (Phase II)

Comparative Analysis

ALECSAT: CytoVac

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report

Early Stage Products (Phase I)

Comparative Analysis

CYAD-02: Celyad Oncology

Product Description

Research and Development
Product Development Activities
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Product Description
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