

Treg Therapy Market by Target Indications (Crohn Disease, Bipolar Disorder, Allergic Rhinoconjunctivitis, COVID 19, Diabetes Mellitus, Systemic Lupus Erythematosus, Alzheimer Disease and Graft Vs Host Disease), Key Players and Key Geographies (North America, Europe and Asia Pacific): Industry Trends and Global Forecast, 2021-2035

<https://marketpublishers.com/r/T2CD5EE31A19EN.html>

Date: October 2021

Pages: 145

Price: US\$ 4,799.00 (Single User License)

ID: T2CD5EE31A19EN

Abstracts

The Treg therapy market is expected to reach USD 5 million in 2023 and anticipated to grow at a CAGR of 44% during the forecast period 2023-2035.

The application of regulatory T cell (Treg) therapies has garnered significant attention among key industry stakeholders due to their notable advantages, including high target specificity, customizable potential, and the ability to trigger immunological memory. The National Cancer Institute (NCI) predicts that by 2030, more than 22 million individuals in the US might receive a cancer diagnosis. Consequently, there's a rising demand for effective treatment methods, especially given the limitations of traditional approaches like chemotherapy, surgery, and radiation therapy, particularly for advanced cancers. This has led the research community to focus on developing innovative treatment modalities such as Treg cell therapies, which show promising efficacy. Tregs, a specialized subset of regulatory T cells, play a crucial role in maintaining immune tolerance to self-antigens and suppressing harmful immune responses, contributing to overall host homeostasis.

The realm of Treg-based therapies has become a central point in immunotherapy

research due to their ability to prevent or delay graft rejection and manage autoimmune reactions post adoptive transfer in vivo. Over 90 pharmaceutical companies, academic institutions, and research centers have initiated various efforts to develop effective Treg cell therapies targeting multiple indications. Currently, there are nearly 95 product candidates in the pipeline, with expectations for further expansion. Among these candidates, over 15 Treg therapies—such as ALS001 (Coya Therapeutics), CLBS03 (Caladrius Biosciences), ILT-101 (ILTOO Pharma), NKTR-358 (Eli Lilly), and RGI-2001 (REGiMMUNE)—are undergoing advanced-stage evaluations. The increased interest of pharmaceutical stakeholders in the Treg therapy market is evident from the surge in registered clinical trials for these candidates. Furthermore, numerous collaborations between industry and non-industry entities have been established in the last decade to advance the development of various pipeline candidates.

It's notable that in the past five years, strategic investors have infused approximately USD 3 billion in capital investments into the Treg therapy market. This niche yet burgeoning market is poised for robust growth in the forecast period, with pioneering entities expected to leverage the first-to-market advantage.

Report Coverage

The report conducts an in-depth analysis of the Treg therapy market, focusing on target indications, key players, and significant geographical regions.

It examines factors influencing market growth, such as drivers, restraints, opportunities, and challenges.

Evaluation of potential advantages and obstacles within the market landscape is provided, along with insights into the competitive environment for leading market players.

Revenue forecasts for market segments are outlined concerning three major regions.

A comprehensive assessment of the current Treg cell therapy market scenario includes various aspects: product types, developmental phases, therapeutic areas, target indications, T-cell sources, administration routes, dosing schedules, target patient demographics, therapy types, and developer categories.

The report thoroughly analyzes completed, ongoing, and planned clinical studies of diverse Treg cell therapies, considering parameters like trial registration years, enrolled patient demographics, trial phases, recruitment statuses, study designs, duration, targeted patient segments, gender representation, sponsors/collaborators, key industry players involved, and geographic distribution of trials.

Examination of recent partnerships within the Treg therapy market, spanning 2015 to August 2021, along with an overview of partnership models adopted during this period.

Detailed scrutiny of investments made by Treg therapy companies between 2014 and August 2021, including seed financing, venture capital, IPOs, subsequent public offerings, grants, and debt financing.

Elaborate profiles of clinical-stage Treg cell therapies in phase I/II or beyond, encompassing therapy overviews, clinical trial specifics, key insights, and potential estimations of sales revenues.

Qualitative analysis highlighting the competitive forces within the Treg therapy market, including threats of new entrants, supplier bargaining power, buyer bargaining power, substitute product threats, and existing competitor rivalry.

Detailed profiles of significant entities involved in Treg cell therapy development, comprising company overviews, financial details (if available), product portfolios, and recent advancements.

Key Market Companies

Abata Therapeutics

Cellenkos

Coya Therapeutics

ILTOO Pharma

NEKTAR

Roche

Sonoma Biotherapeutics

TeralImmune

TRACT Therapeutics

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