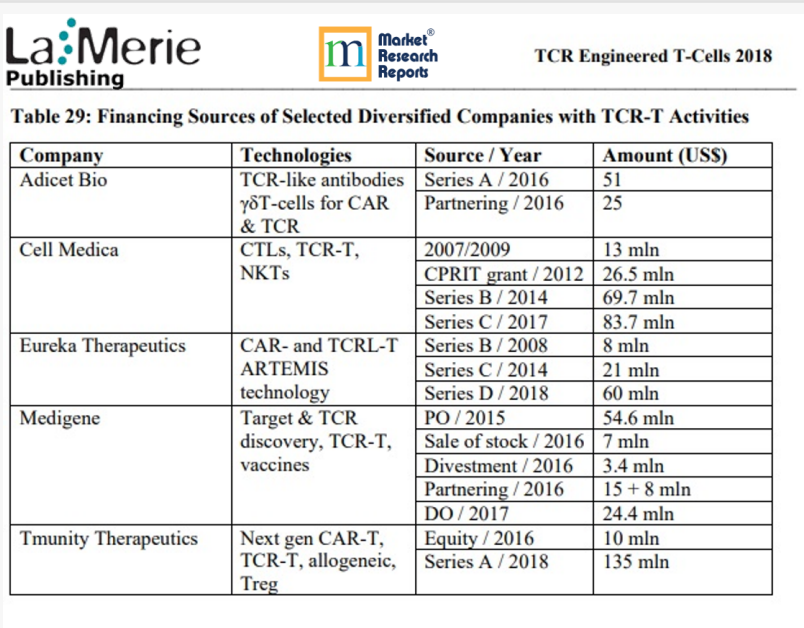
# TCR Engineered T-Cell Therapy Status Report A Must Have Study for Academia and Pharma/Biotech Companies

*The new report covers global companies like Adaptimmune, Bellicum Pharmaceuticals, Cell Medica, GlaxoSmithKline and 30+ companies.*

LEWES, DELAWARE, DELAWARE, UNITED STATES, August 21, 2018 /EINPresswire.com/ -- T-Cell Receptors (TCR) and Chimeric Antigen Receptors (CAR) are the cutting edge of adoptive T-cell therapy. Both receptors deploy T-cells to target the tumor, but CAR T-cells (CAR-T) are limited to binding to cell surface antigens, while TCR T-cells (TCR-T) recognize peptides (derived from intracellular proteins) presented on the cell surface by the major histocompatibility complex (MHC) class I.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TCR Engineered T-Cells 2018

**Table 29: Financing Sources of Selected Diversified Companies with TCR-T Activities**

| Company | Technologies | Source / Year | Amount (US$) |
|---|---|---|---|
| Adicet Bio | TCR-like antibodies γδT-cells for CAR & TCR | Series A / 2016 | 51 |
| | | Partnering / 2016 | 25 |
| Cell Medica | CTLs, TCR-T, NKTs | 2007/2009 | 13 mln |
| | | CPRIT grant / 2012 | 26.5 mln |
| | | Series B / 2014 | 69.7 mln |
| | | Series C / 2017 | 83.7 mln |
| Eureka Therapeutics | CAR- and TCRL-T ARTEMIS technology | Series B / 2008 | 8 mln |
| | | Series C / 2014 | 21 mln |
| | | Series D / 2018 | 60 mln |
| Medigene | Target & TCR discovery, TCR-T, vaccines | PO / 2015 | 54.6 mln |
| | | Sale of stock / 2016 | 7 mln |
| | | Divestment / 2016 | 3.4 mln |
| | | Partnering / 2016 | 15 + 8 mln |
| | | DO / 2017 | 24.4 mln |
| Tmunity Therapeutics | Next gen CAR-T, TCR-T, allogeneic, Treg | Equity / 2016 | 10 mln |
| | | Series A / 2018 | 135 mln |

TCR Engineered T-Cell Therapy 2018

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Adoptive T-cell therapy has come of age with the recent approvals of two CAR-T therapeutics targeting CD19 (Kymriah and Yescarta) demonstrating feasibility of clinical development with impressive results and of personalized manufacturing & logistics. It remains to be seen whether these autologous CAR-Ts will live up commercial expectations, as first quarter 2018 sales of Kymriah were far below expectations (only US$ 12 mln). The final prices of US$ 475,000 (Kymriah) and US$ 373,000 mln (Yescarta) are challenging the commercial viability of autologous CAR-T therapy. Allogeneic cell therapy might be one technological solution for the pricing problem.

While CAR-Ts performed very well for hematologic malignancies, they did less for solid tumors. Furthermore, CAR-T therapy is restricted to cell surface proteins which constitute about 20-25% of all available targets on a solid tumors, leaving nearly 80% of intracellular targets untapped by CAR-T therapy or by conventional antibody therapy.

The concept of TCR T-cell therapy actually predates CAR-Ts, but suffered a series of setbacks due to toxicity caused by cross-reactivity with related and unrelated peptides prompting the development of much more sophisticated specificity screening systems. But TCR-Ts are catching up as evidenced by ten different company-related TCR-Ts entering clinical development in the last two years and further nine in preparation of clinical trials. Significant deals between TCR-T companies and major Pharma/Biotech further underline the promise of TCR-T technologies.

> Cell Medica has entered into an exclusive license and option agreement with UCL Business, the technology commercialisation company of UCL, for the dominant TCR platform patent and two target antigens.”
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> *LM*

In this new report "TCR Engineered T-Cell Therapy 2018: an industry analysis of technologies, pipelines, stakeholders & deals" brings you up-to-date and gives you answers to key questions about

>target discovery & selection,
>technologies for generation of TCRs,
>neoantigen-specific TCRs,
>off-the-shelf TCR-Ts,
>the TCR-T pipeline,
>manufacturing strategies,
>next generation TCR-Ts,
>key players,
>competition,
>corporate strategy,
>deals and acquisitions and
>financing.

The report can be acquired at MarketResearchReports.com at (https://www.marketresearchreports.com/la-merie-publishing/tcr-engineered-t-cell-therapy-2018-industry-analysis-technologies-pipelines ). There you will find samples pages, a detailed Table of Contents, a list of Tables and of companies discussed in the report.

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