



TCR² Therapeutics Presents Preclinical Data on its Lead Solid Tumor and Blood Cancer Programs at the American Association for Cancer Research (AACR) Annual Meeting

March 28, 2019

CAMBRIDGE, Mass., March 28, 2019 /PRNewswire/ -- TCR²Therapeutics Inc. (Nasdaq: TCRR), a clinical-stage immunotherapy company developing the next generation of novel T cell receptor (TCR) therapies for patients suffering from cancer, today announced that preclinical data on its lead solid tumor program TC-210 and its lead blood cancer program TC-110 will be presented at the American Association for Cancer Research (AACR) Annual Meeting 2019. The AACR Annual Meeting 2019 will be held March 29 to April 3, 2019 at the Georgia World Congress Center, Atlanta, GA.

Abstracts are available on the AACR conference website at <http://www.aacr.org>. Information contained in the abstracts was at the time of submission on February 1, 2019.

Title: Preclinical evaluation of TC-210, a mesothelin-specific T cell receptor (TCR) fusion construct (TRuC™) T cells for the treatment of solid tumors. (Abstract #2307) <https://www.abstractsonline.com/pp8/#!/6812/presentation/2608>

Presenter/Authors: Jian Ding¹, Holly Horton¹, Seema Shah¹, Adam Zieba¹, Janani Krishnamurthy¹, Thomas Ashhurst², Ashley V. Menk³, Patrick A. Baeuerle¹, Nicholas J. C. King², Gregory Delgoffe³, Robert Hofmeister¹, Daniel R. Getts¹. ¹TCR² Therapeutics Inc. Cambridge, MA, ²University of Sydney, Sydney, Australia, ³University of Pittsburgh, Pittsburgh, PA

Session: PO.IM02.03 Adoptive Cell Therapy 2, Section 22

Session date and time: Monday, April 1, 2019 1:00 PM - 5:00 PM ET

- The company's lead program targeting mesothelin-positive solid tumors, TC-210 has shown robust anti-tumor activity in cellular assays and animal models of lung, ovarian, and malignant plural mesothelioma cancers. In these studies, TC-210 was compared head-to-head against mesothelin-targeting chimeric antigen receptor (CAR)-T cells (MSLN CAR-T cells) bearing the same mesothelin binder expressed on TC-210.
- Results showed mesothelin-dependent T cell activation, expansion, and tumor clearance by TC-210 was faster than that observed with MSLN CAR-T cells. Additionally, unlike MSLN-CAR-T cells, TC-210 showed increased levels of oxidative phosphorylation and mitochondrial respiratory reserve, attributes associated with long-term memory T cells. Finally, robust tumor clearance by TC-210 was achieved at systemic cytokine levels that were significantly lower than those observed in MSLN CAR-T cell treated animals.
- Together, these findings warrant the investigation of TC-210 in clinical trials as effective treatment for mesothelin-expressing tumors with potentially lower rates of adverse events.

Title: Preclinical evaluation of TC-110: CD19-specific T cell receptor (TCR) fusion construct (TRuC™) T cell for the treatment of hematologic malignancies. (Abstract #2330) <https://www.abstractsonline.com/pp8/#!/6812/presentation/2631>

Presenter/Authors: Holly Horton¹, Jian Ding¹, Seema Shah¹, Jessica Gierut¹, Niko Thorausch², Anna Morath², Wolfgang Schamel², Marcela Maus³, Patrick A. Baeuerle¹, Robert Hofmeister¹, Daniel R. Getts¹. ¹TCR² Therapeutics Inc. Cambridge, MA, ²University of Freiburg, Freiburg, Germany, ³Massachusetts General Hospital, Boston, MA

Session: PO.IM02.03 Adoptive Cell Therapy 2, Section 22

Session date and time: Monday, April 1, 2019 1:00 PM - 5:00 PM ET

- TC-110 is a CD19-specific ε-TRuC™ variant. Results of this preclinical evaluation of TC-110 showed:
 - *In vitro*, TC-110 T cells are equally potent as CAR T cells in eliminating tumor cells, while producing less inflammatory cytokines.
 - In preclinical mouse models of acute lymphoblastic leukemia and Burkitt's lymphoma, TC-110 T cells demonstrate better efficacy than second generation CAR-T cells bearing CD28 or 41BB co-stimulatory domains. Of note, the efficacy of TC-110 T cells, both *in vitro* and *in vivo*, does not require added co-stimulatory signals.
- These findings demonstrate the efficacy of TC-110 T cells both *in vitro* and in preclinical mouse models, indicating the clinical potential of TRuC™ platform for treating hematologic malignancy.

About TCR² Therapeutics

TCR² Therapeutics Inc. is a clinical-stage immunotherapy company developing the next generation of novel T cell therapies for patients suffering from cancer. TCR²'s proprietary T cell receptor (TCR) Fusion Construct T cells (TRuC™-T cells) specifically recognize and kill cancer cells by harnessing the entire TCR signaling complex independent of human leukocyte antigen (HLA). In preclinical studies, TRuC-T cells have demonstrated superior anti-tumor activity compared to chimeric antigen receptor T cells (CAR-T cells), while exhibiting lower levels of cytokine release. The Company's lead


TRuC-T cell product candidate, TC-210, is currently being studied in a Phase 1/2 clinical trial to treat patients with mesothelin-positive non-small cell lung cancer (NSCLC), ovarian cancer, malignant pleural/peritoneal mesothelioma, and cholangiocarcinoma. For more information about TCR², please visit www.tcr2.com.

Forward-Looking Statements

This press release may contain forward-looking statements and information within the meaning of The Private Securities Litigation Reform Act of 1995 and other federal securities laws. The use of words such as "may," "will," "could," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," "projects," "seeks," "endeavor," "potential," "continue" or the negative of such words or other similar expressions can be used to identify forward-looking statements.

The express or implied forward-looking statements included in this press release are only predictions and are subject to a number of risks, uncertainties and assumptions, including, without limitation: uncertainties inherent in clinical studies and in the availability and timing of data from ongoing clinical studies; whether interim results from a clinical trial will be predictive of the final results of the trial; whether results from preclinical studies or earlier clinical studies will be predictive of the results of future trials; the expected timing of submissions for regulatory approval or review by governmental authorities, including review under accelerated approval processes; orphan drug designation eligibility; regulatory approvals to conduct trials or to market products; TCR²'s ability to maintain sufficient manufacturing capabilities to support its research, development and commercialization efforts, whether TCR²'s cash resources will be sufficient to fund TCR²'s foreseeable and unforeseeable operating expenses and capital expenditure requirements; and other risks set forth under the caption "Risk Factors" in TCR²'s Registration Statement on Form S-1 and its other filings with the Securities and Exchange Commission. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this press release may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although TCR² believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur.

Moreover, except as required by law, neither TCR² nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements included in this press release. Any forward-looking statement included in this press release speaks only as of the date on which it was made. We undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by law.

 View original content: <http://www.prnewswire.com/news-releases/tcr2-therapeutics-presents-preclinical-data-on-its-lead-solid-tumor-and-blood-cancer-programs-at-the-american-association-for-cancer-research-aacr-annual-meeting-300819104.html>

SOURCE TCR2 Therapeutics

Media, Kathy Vincent, (310) 403-8951, kathy@kathyvincent.com or Investors, Ian Somaiya, Chief Financial Officer, (617) 949-5210, ian.somaiya@tcr2.com