

MedGenome on tumor-cell intrinsic mechanisms that regulate infiltration of T-cells in the tumor microenvironment

The data will be presented at the Biomarkers & Diagnostics World Congress in Philadelphia, May 16-19, 2016



FOSTER CITY, CA, UNITED STATES,

May 12, 2016 /EINPresswire.com/ -- MedGenome provides customized genomic solutions in cancer immunotherapy to enable pharma and biotech companies develop superior biomarkers will present an abstract titled "Somatic Mutations Influence Infiltration of T-Cells in Human Cancers" at the Biomarkers and Diagnostics World Congress, being held at Marriott Downtown, Philadelphia, from May 16-19, 2016.

Tumor cells employ a variety of immune-evasive mechanisms to protect themselves from immune attack, mediated through inhibition of T-cell infiltration, avoiding recognition by T-cells, and by creating an immune suppressive microenvironment to paralyze an immune attack. The mechanisms contributing to T-cell infiltration within the tumor is poorly characterized. Most studies have focused on tumor extrinsic factors produced by stromal cells and tumor associated macrophages that actively block T-cells from entering the tumors. We know very little of the tumor-intrinsic mechanisms that prevent T-cells from infiltrating into the tumor microenvironment. MedGenome's proprietary genomic solution [OncoPeptTUME](#) takes an unbiased approach to identify T-cell enriched or T-cell depleted tumors using T-cell-specific gene signatures. A combined analysis of gene expression and mutational burden identified differentially regulated pathways in these T-cell inflamed or depleted tumors.

This study demonstrates that tumor cell-intrinsic genetic alterations modulate signalling pathways that directly impact T-cell infiltration through factors that alter the tumor microenvironment. OncoPeptTUME provides a holistic view of the tumor microenvironment to immune-oncology researchers to discover new therapeutic targets and biomarkers.

About MedGenome

MedGenome (<http://www.medgenome.com>) is a [genomics-driven research](#) and diagnostics company with a mission to improve global health by decoding the genetic information contained in an individual's genome. Its unique access to genomics data with clinical and phenotypic data provides insights into complex diseases at the genetic and molecular level to facilitate research in personalized health care. MedGenome is a market leader for genomic diagnostics in South Asia and a leading provider of genomics research services globally.

Forward-looking Statements:

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