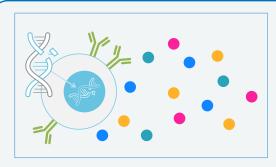
Bruker's Single-Cell Functional Proteomics for Cell Therapy

The Role of Single-Cell Secretomics in Cell Therapies

Cell therapies have made great advancements in fighting cancer, but several challenges remain including overcoming immunosuppressive microenvironments, evaluating product quality, and predicting patient response. Bruker's Single-Cell Secretome for analyzing cell polyfunctionality can help overcome these challenges by revealing unique and predictive functional biomarkers across the research pipeline.

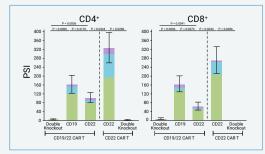
Uncovering Critical Biomarkers Across the Cell Therapy Research Pipeline with Bruker



Preclinical Research

Confirming the Function of Engineered Cells

Predictive functional insights can be used to accelerate preclinical development of cell therapies. When engineering new cell therapies, it is critical that researchers ensure that the edits function as intended with single-cell functional proteomics.

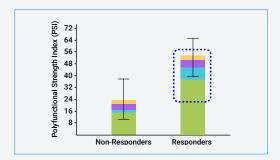


Adapted from Spiegel JY et al. CAR T cells with dual targeting of CD19 and CD22 in adult patients with recurrent or refractory B cell malionancies: a phase 1 trial. Nature Medicine. 2021.

Bioprocessing

Optimizing Cell Therapy Manufacturing

The identification of quality indicators of potency in the manufacturing and bioprocessing process is critical. The ability of Bruker's single-cell proteomics to analyze single-cell function and reveal product quality can guide the optimization of cell therapy manufacturing.



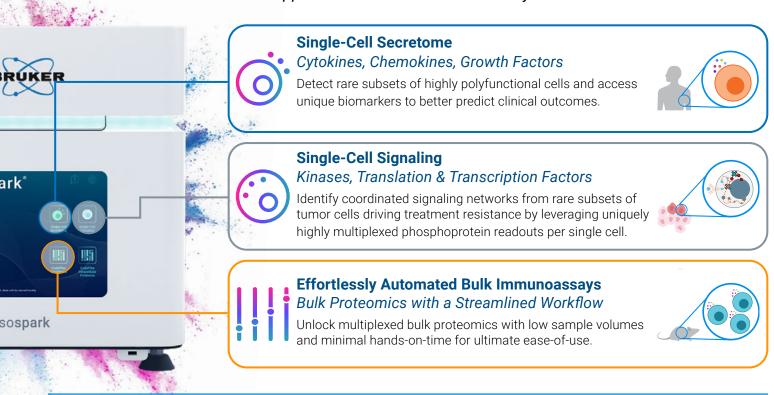
Clinical Research

Predicting Patient Response and Relapse

Predictive biomarkers that allow researchers to stratify patient response to cell therapies are needed. Bruker technology can provide detailed insights into functional biological mechanisms that can be used to predict clinical outcomes.

Solving your Cell Therapy Challenges by Unlocking the Functional Proteome

Enable Critical Discoveries One Application at a Time – All in One System.



Your Entire Proteomics Workflow Automated in One System

Discover the Right Instrument for Your Lab's Throughput and Immune Profiling Needs

instrument enabling Cell Therapy higher throughput for any lab functional immune landscaping Inflammation Infectious Disease Oncology **High-Capacity Personal Lab Complete Immune Featured Application** Instrument Instrument Landscaping Walk-Away Proteomics Workflow Immediate Predictive Insights Publication-Ready Visualizations Compatible with All Applications Run Multiple Applications at Once Chips Throughput 8 Chips 4 Chips 8 Chips Instrument Footprint 28.5 in 18 in 36 in

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