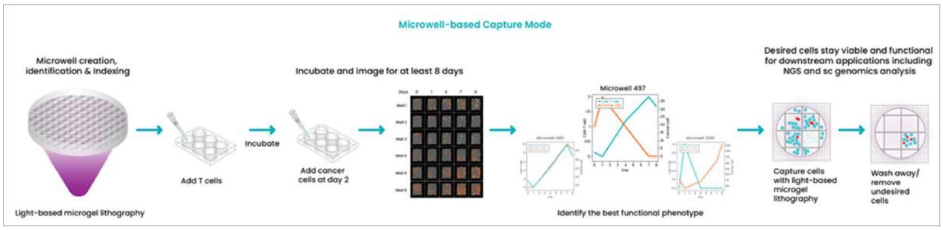
ENRICH BIOSYSTEMS

High Throughput Screening & Isolating Persistent Tumor-killing T Cells by Enrich TROVO system

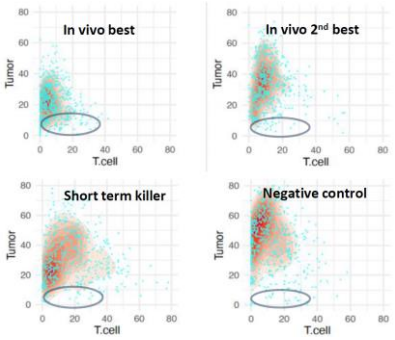
Enrich TROVO cell analysis/isolation system, along with its Microwell Printing Reagent and Cell Capture Reagent, offers a streamlined workflow for coculturing T cells and tumor cells, profiling kinetics, and capturing cells based on their behavior and function. TROVO uses microfluidics-free, dissolvable microwell and visual enrichment strategies to rapidly discover the best T cell effector from a pool of clones. It also provides a precise single construct T cell clone valuation and ranking assay with clear separation between persistence clones and short-term killers in as little as three days.

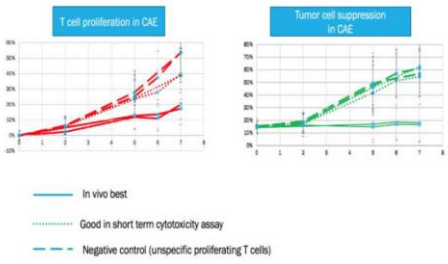


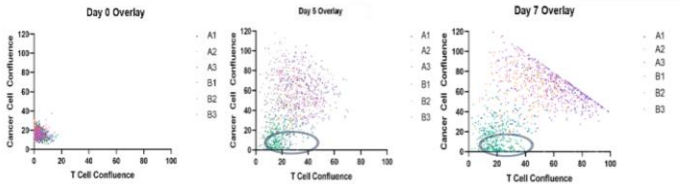
We can conduct repeated stimulation assays to assess T cells' ability to consistently and effectively kill cancer cells, which is crucial for predicting their clinical efficacy.

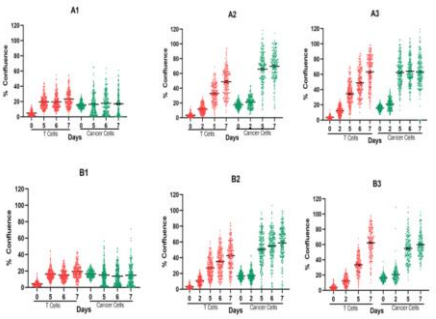
TROVO system assesses key aspects of T cell function in normal culture conditions

- Activation
- Cytotoxicity
- Persistence
- Exhaustion
- Migration









Unparalleled features demonstrated in the TROVO process:

- Micro-fluidics free: no clogging, no physical stress, or contamination
- Minimizes the number of cells needed for experiments while maintaining the maximum amount of cell activity in its natural state
- Directly analyze and capture of tumor-reactive T cells (CAR-T, TCR-T, TIL, etc.) for downstream development
- Simultaneous monitoring and picking from up to 36,000 clones per six-well culture plate with tumor time-lapse inhibition assays
- Imaging/real-time kinetics of any marker
- Near vivo tumor feeding strategies for repeated tumor challenge
- Flexible Effector: Tumor ratio for up to 1:100
- Automated data acquisition/processing
- Ultra long-term assay monitoring with no cultural limitation
- Tumor micro-environment enabling

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