>> Development of a Faster Potency Assay for Evaluation of Immune Cell-mediated Cytotoxicity In Vitro

Axion BioSystems, Atlanta, GA, USA









Sierra Barnes, <u>Danielle Califano</u>, Ben Streeter, Denise Sullivan, Daniel Millard







(Left) %cytolysis dose-response and EC50 for SKOV3 at 4- (top) and 24- (bottom) hours after CAR T addition. (Right) Kill Time 50 (KT50), or the time required for 50% of the target cells to be killed for SKOV3 cells at 4-(Orange) and 24- (teal) hours after CAR T addition at E:T ratios 1:10, 1:5, 1:2, 1:1, and 5:1.

- target (E:T) ratio.
- cells involved.



Conclusions

• The Rapid Protocol enables faster analysis on the Maestro Z platform without sacrificing reliability. • It improves efficiency by introducing CAR T cells earlier while maintaining an accurate effector-to-

(1:2) (1.1)

NS

4HOLRCART-TADDITION 24HOLRCARTADDITION

• Potency assays using the Rapid Protocol should be optimized for the specific target and effector

axionbio.com

(5:1)