Tracking Viral Persistence: Robust Viability Data in Viral Research

Policarpo Sequeira et. al. (2025) Activated blood-derived human primary T cells support replication of HAdV C5 and virus transmission to polarized human primary epithelial cells; J Virol. 2025 May; 99(5): e01825-24

The Challenge:

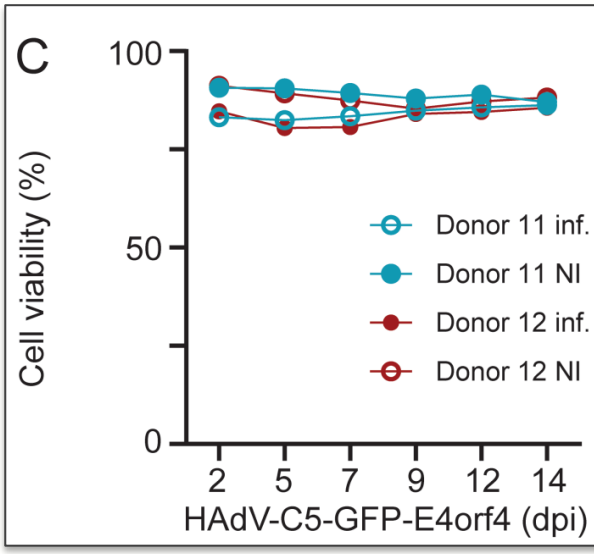
Understanding Human Adenovirus C5 (HAdV-C5) infection dynamics, especially viral persistence in delicate primary human T cells, required continuous and accurate monitoring of cell viability.

CASY's Contribution:

The CASY Cell Counter and Analyzer proved essential for reliably monitoring primary T cell cultures, providing accurate cell counts and viability data over 14 days. This allowed researchers to confirm that HAdV-C5 infection, under specific conditions, did not significantly affect T cell viability, suggesting potential viral persistence.

Key Benefits to Researchers:

- **Reliable Cell Health Monitoring:** Confidently track cell health in complex primary cell cultures, even over extended periods.
- **Accurate Viability for Infection Studies:** Obtain precise viability assessments crucial for understanding host-pathogen interactions and viral dynamics.
- **Robust & Reproducible Data:** Ensure the quality of experimental outcomes, particularly when working with delicate primary human cells, supporting scientific breakthroughs.
- **Essential for Viral Persistence Studies:** Provides the consistent data needed to track subtle changes in cell viability indicative of viral persistence or impact.



CASY Confirms Consistent Viability of Primary T-Cells Over 14 Days, Supporting HAdV-C5 Persistence.

Fig. 2 Fig. 2 C. Cell viability of pre-activated donor 11 and 12 cultures infected with adapter-coated HAdV-C5-GFP-E4orf4