>> Defining Docetaxel's antitumor effects on Calu3 lung cancer cells using high-throughput live-cell imaging

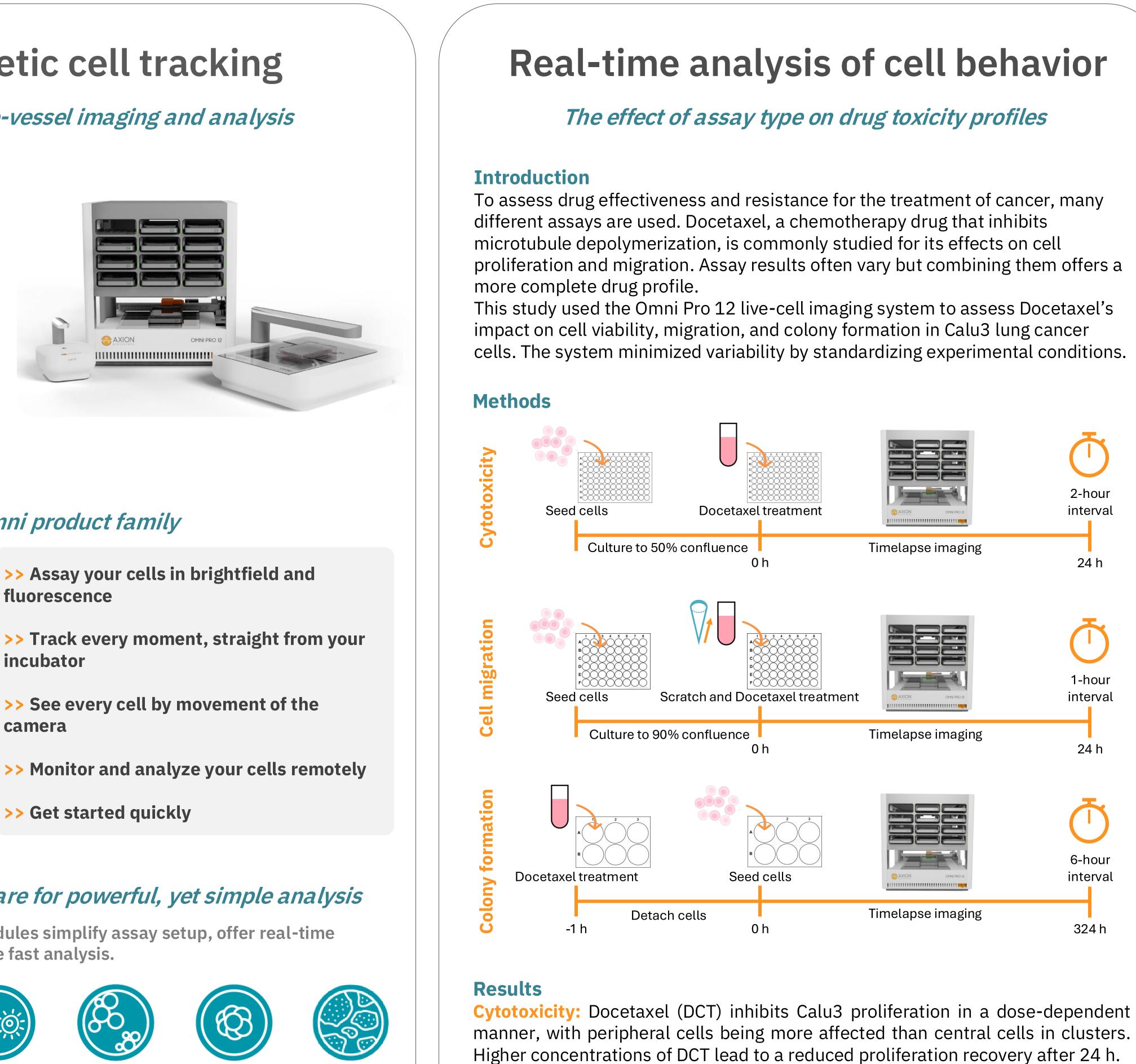
Linda Boekestijn¹, Henry Ordutowski², Inge Thijssen¹, Austin Passaro² ¹Axion BioSystems, Eindhoven, The Netherlands; ²Axion BioSystems, Atlanta, GA, USA

Omni: Kinetic cell tracking

Automated, whole-vessel imaging and analysis

Oncology studies cancer development and treatments, using assays like cytotoxicity and migration to assess drug toxicity. Toxicity profiles depend on assay and drug impact, with type combined assays offering more accurate results.

The Omni Pro 12 streamlines drug profiling by automating multi-assay workflows, reducing variability, and improving data advancing cancer reliability, research



The Omni product family

>> Assay your cells in brightfield and fluorescence

incubator

>> See every cell by movement of the camera

- >> Get started quickly

AI-Driven imaging software for powerful, yet simple analysis

The Omni platform software modules simplify assay setup, offer real-time cellular visualization, and enable fast analysis.



60

Cell Confluence



0 4 8 12 16 20 24 28 32 36 40 44

Time (Hours)

Scratch Assay



-313

-625

-2500

-5000

-10000

-20000

-1250

Fluorescence Analysis







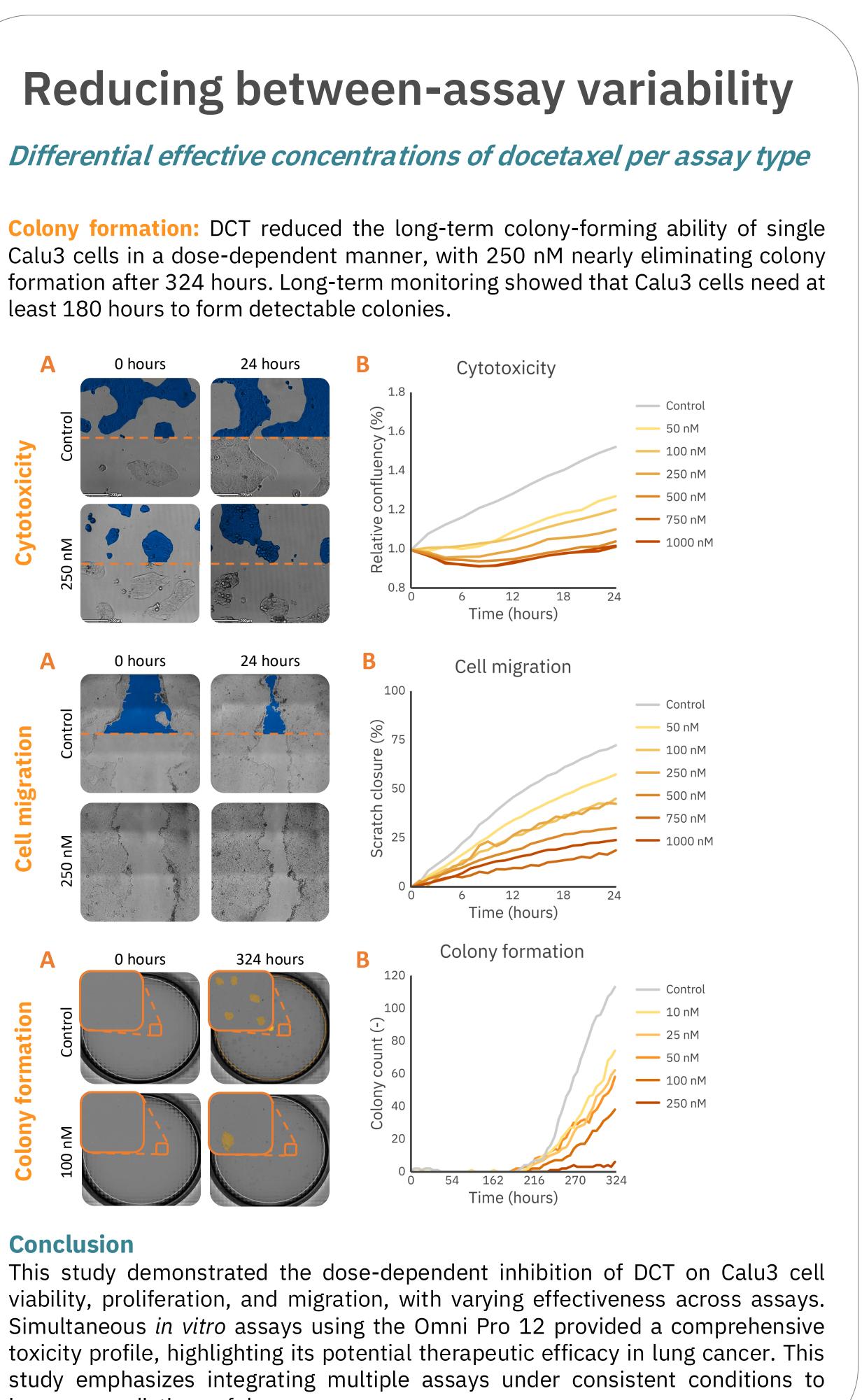
Organoid Analysis

Clonogenic Assay

iPSC Monitoring

Cell migration: DCT slowed Calu3 migration in a dose-dependent manner, albeit in a more gradual manner compared to proliferation inhibition.





improve predictions of drug responses.



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