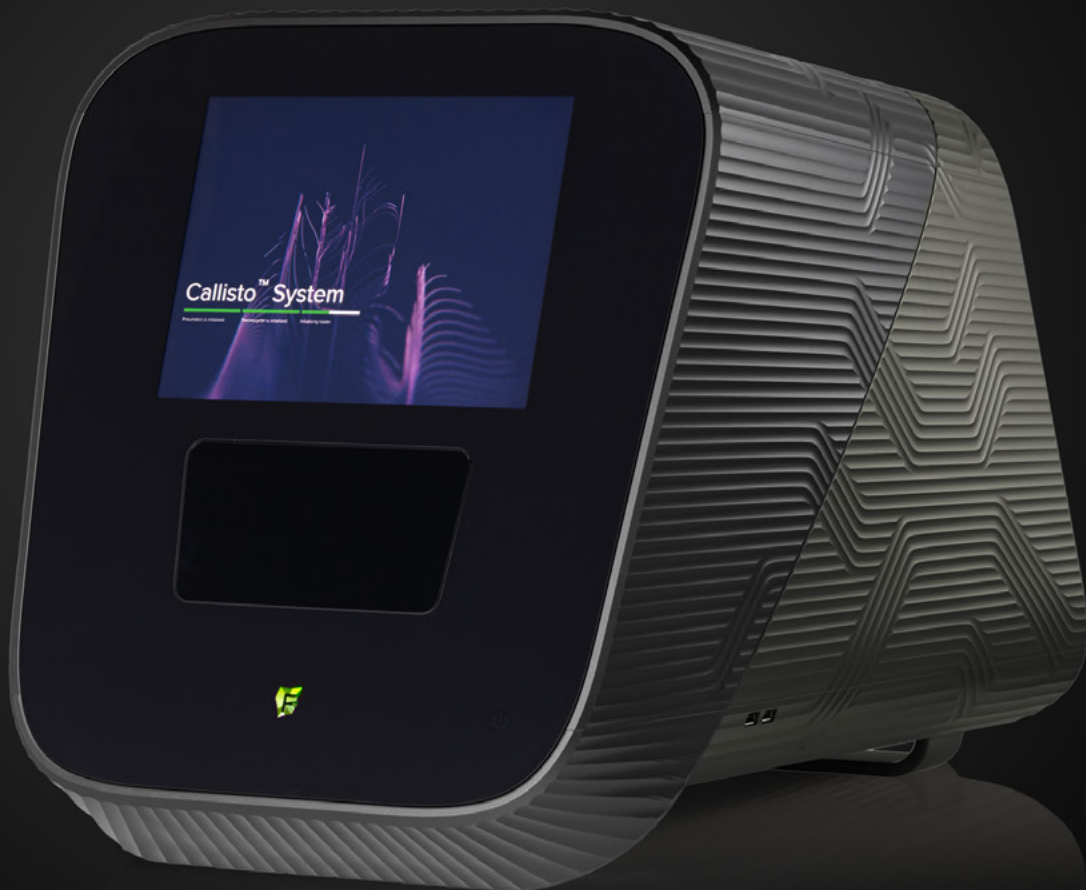




Callisto

Introducing a new era in cellular modeling



The Counter Culture

INTRODUCING A NEW ERA OF CELLULAR MODELING

To understand the basis of normal cell development and disease, you need efficient and predictive cellular models that mimic in vivo cellular environments and allow you to explore the complex interplay of phenotype, genomic state and microenvironment. Introducing Callisto™, the industry-first platform that lets you design, optimize and execute complex, multistage cell culture protocols with a few taps on a screen. Now you can explore the mechanisms behind cellular programming, activation and expansion, derive and characterize new cell types, conduct dose and response studies and drug screening, or discover new biomarkers. Program your experiment offline, collaborate on protocols and, when you're ready, press Run and walk away for up to three weeks while gas, humidity and temperature are precisely controlled.

Powerful

Optimize your experiment with multifactorial dosing of your cell culture with any combination of RNA, small molecules, virus and other factors.

Efficient

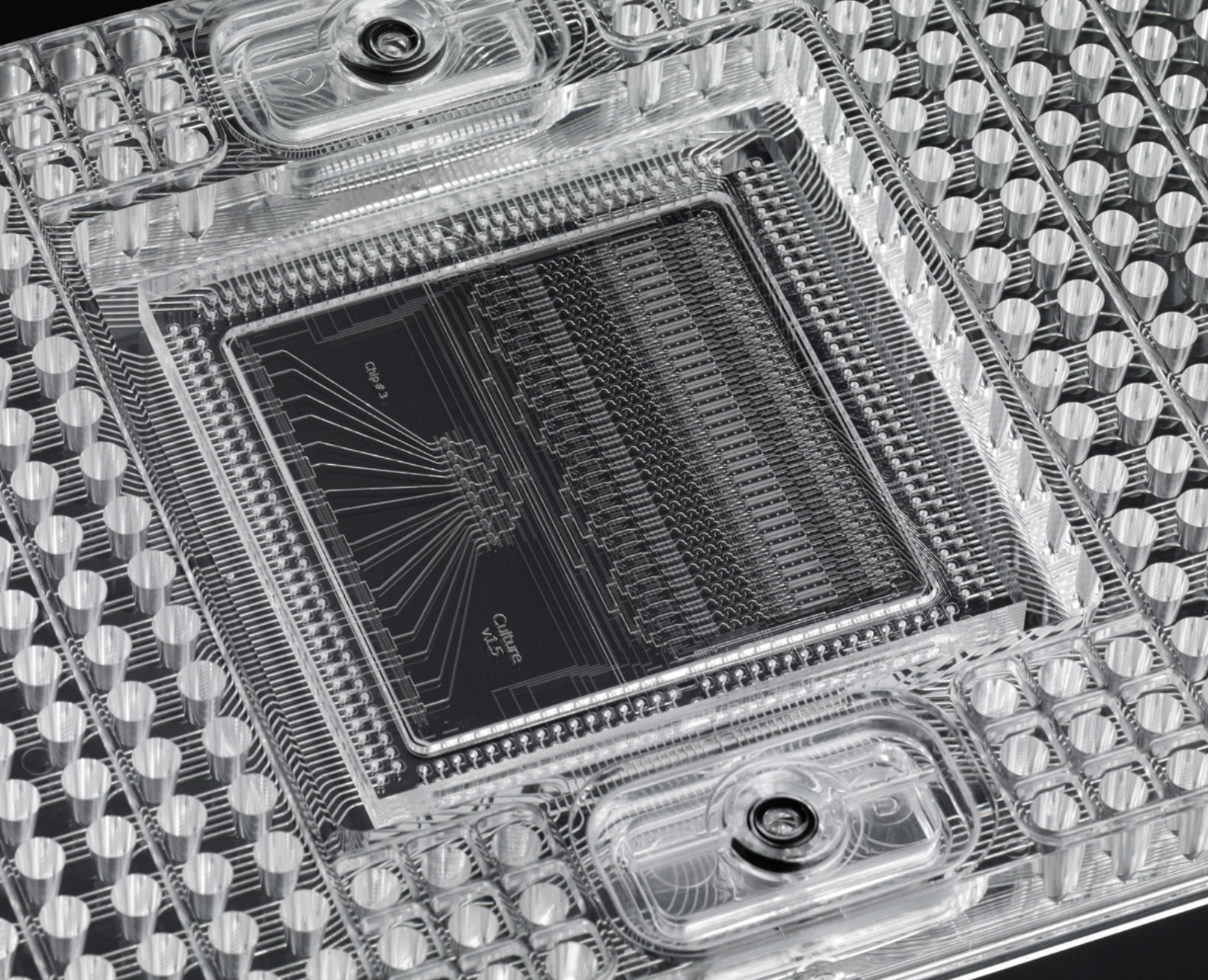
Save time, effort and cost with an easy workflow based on prescheduled media changes, transfection and dosing with nanoliter-scale reaction volumes.

Flexible

Accelerate your discovery with integrated workflows for live-cell, RNA, DNA, epigenetic or protein analysis on bulk or single cells.

Simple

Run a complete culture protocol within a single instrument with just a touch of your finger.

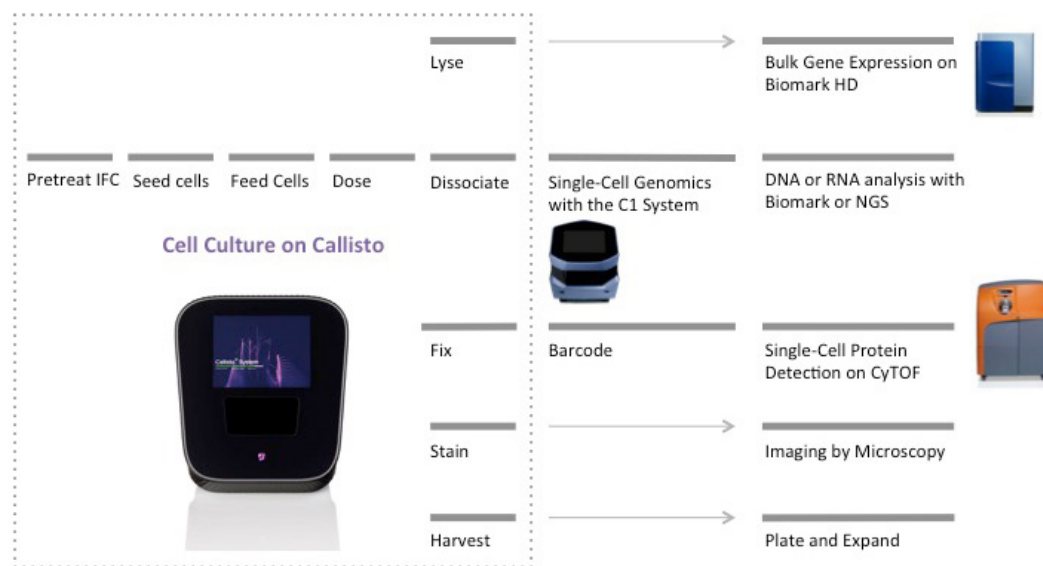


Callisto uses integrated pneumatic control and nanoliter scales to perform cell loading, dosing, staining and harvesting at a fraction of the cost with unmatched precision.

A Hands-Free Workflow That Fits Your Research

Save time, effort and cost with an easy, script-based workflow that features prescheduled feeding, transfection and knock-in, knockdown or knockout dosing for cellular programming, differentiation or functional studies. Create a combinatorial study in 32 independent chambers using up to 16 factors per chamber, all in parallel. Callisto gives you the flexibility to pretreat each chamber with extracellular matrix, seed a single cell type or a co-culture model and load reagents into the IFC. Choose to feed your cells first or begin dosing right away—it's all automated by the unique experiment script that you design using the Callisto Experiment Planner. Press Run, then monitor your experiment's progress from home and let Callisto tell you when it's time to come back. You can replenish media, verify each chamber for cell viability, stain for phenotypic characteristics or harvest the cells to prepare them for downstream analysis.

From there, your options are limitless. Take your bulk or single cells for targeted gene expression, whole transcriptome analysis, microRNA, DNA or protein analysis—available through the complete Fluidigm portfolio of single-cell, genomic and proteomic systems.

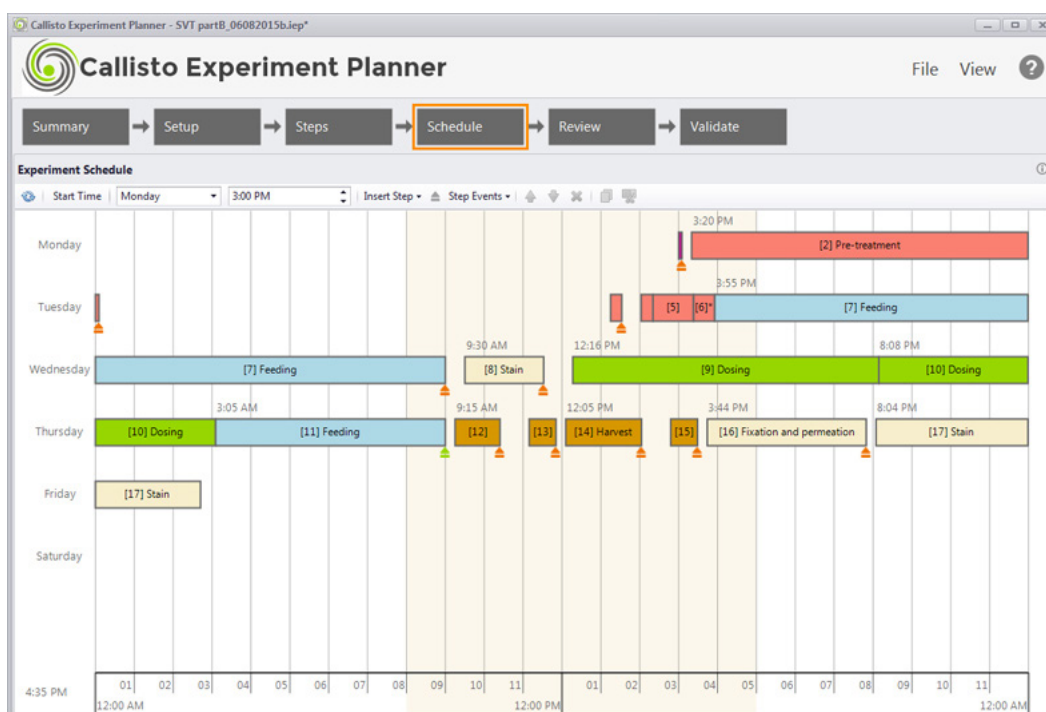


- **Pretreat.** Coat the IFC with extracellular matrix.
- **Seed.** Load cells and reagents into the IFC.
- **Feed.** Insert the IFC and run your script.
- **Dose.** Expose cells to reprogramming factors.
- **Verify.** Stain live cells and verify viability or phenotype.
- **Analyze.** Harvest single or bulk cells from each chamber to fix, lyse or dissociate.

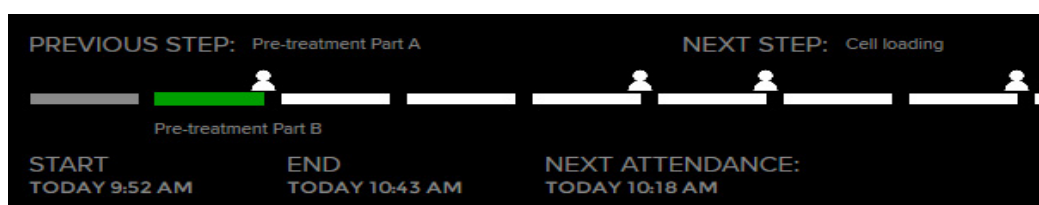
Design and Execution at Your Fingertips

Callisto streamlines experiment design and execution through an intuitive touchscreen interface. The system's exclusive experiment planner software lets you schedule any type of culture event—such as media feeding, combinatorial dosing, temperature or gas changes, staining, lysis and harvesting—during the course of your protocol, for up to three weeks. Share the resulting script with your colleagues or work effortlessly with collaborators to optimize the protocol.

Once your script is ready, load it onto Callisto to run the experiment. And since Callisto automatically saves every experiment, you can easily revisit past results for comparison and optimization.



Simply drag and drop steps into the Callisto Experiment Planner and schedule your events in advance so you know when you need to return to the lab.



Monitor the progress of your experiment remotely or on the elegant touchscreen interface.

Callisto Components

Callisto IFC

Achieve reliable and reproducible reprogramming results with 32 independent chambers combinatorially dosed with 16 factors each.

Callisto Reagent and Lysis Kit

Simplify cell loading, maintenance and processing with our optimized reagent kit and accessories for the Callisto system.

Callisto

Optimize and execute complex cell culture protocols over weeks in one precise yet flexible workflow that automates culture events and environment control.

Related Systems

Biomark™ HD

Analyze bulk or single cells for targeted gene expression and miRNA profiling with real-time PCR, industry-leading flexibility and consistently high-quality results on the Biomark HD system.

C1™

Isolate, stain, lyse and amplify single cells in one precise yet flexible workflow for targeted gene expression, mRNA Sequencing, DNA sequencing, or epigenetics —all in as little as four hours.

CyTOF®

Characterize single-cell proteomics in tens of thousands of cells with functional and phenotypic markers.

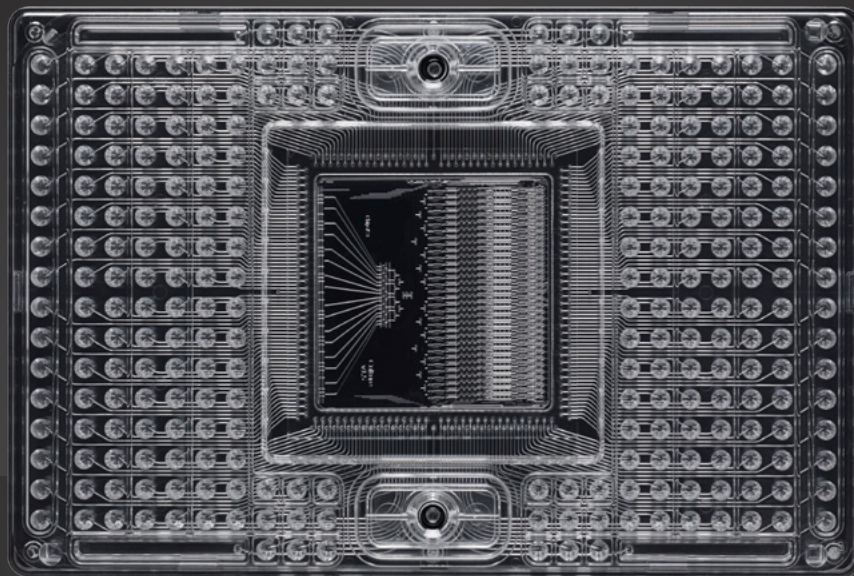
Software

Callisto Experiment Planner

Design intricate multifactoring dosing and feeding protocols with drag-and-drop features and easily schedule all your experiment events.

Singular™ Analysis

An innovative solution for analyzing and visualizing data, the Singular Analysis Toolset offers powerful methods for identifying gene expression and mutation patterns at the single-cell level.



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