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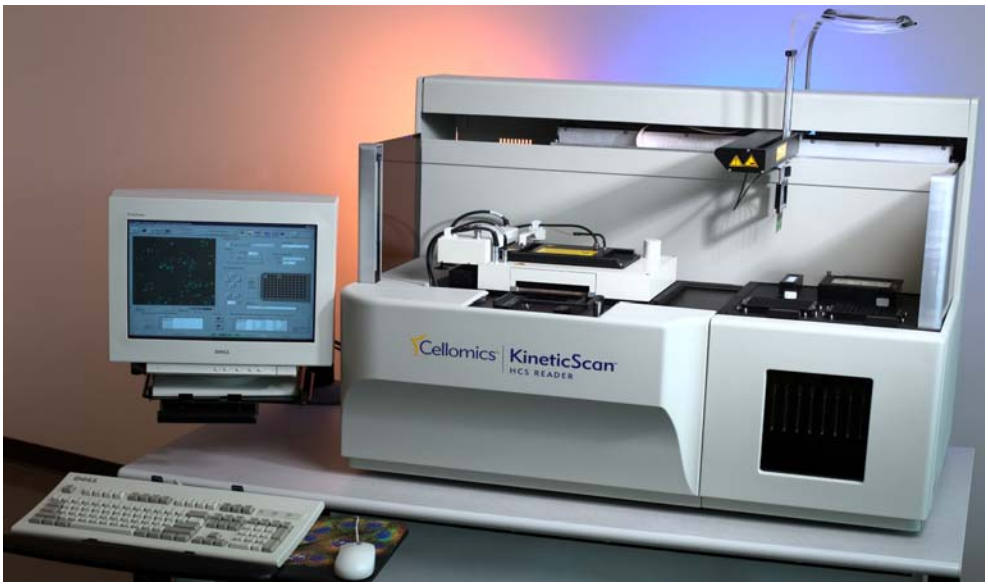
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Cellomics™

Shifting Discovery into High Gear



KineticScan® HCS Reader

An automated solution for analysis of cellular and intracellular spatial parameters, over time, in populations of living cells.

Cellomics Catalog #N01-0015

High Resolution Cellular and Sub-cellular Imaging

Monitor and analyze multiple, individual cells with sub-cellular resolution. Data reveals heterogeneity of kinetic responses and enables researchers to make better decisions by observing correlations that are not revealed in well-average responses.

Kinetic Assay Scheduling Software

Permits fully automated, unattended execution of complex, live cell experimental protocols involving data acquisition, processing and analysis, as well as pipetting activities for increased productivity.

Integrated Liquid Handling System

Fully functional liquid handling for compound and reagent delivery, mixing and cell washing during live cell experiments.

Onboard Environmental Control

Enables live cell experiments by maintaining precise physiological conditions throughout the assay time course, resulting in more biologically meaningful results.

Flexible Optical System

Combining a full spectrum light source with automated filters and objectives provides flexibility for a wide variety of fluorescent reporters, including FRET reagents and dyes for ratio metric imaging.

Proprietary BioApplications

Reduces assay development time by providing researchers with “plug and play” software modules and the flexibility to adjust assay parameters for measurement of a wide range of biological outputs.

Cellomics™ | KineticScan™ HCS READER

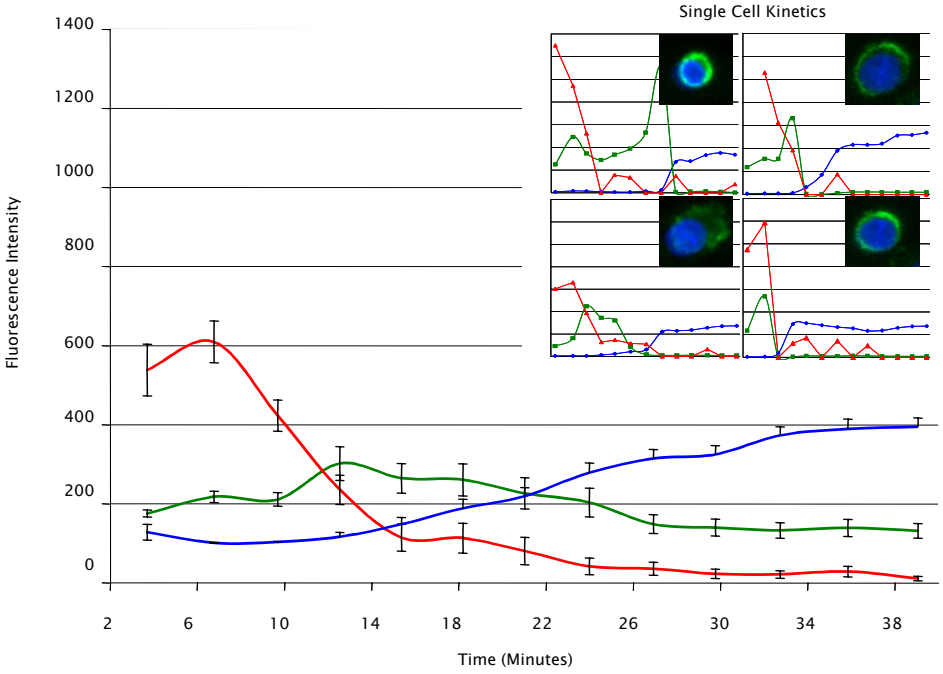
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The KineticScan™ HCS Reader Allows Direct Observation of Individual Cell Responses in a Population



Live cells were monitored for three separate indicators of cell health. Upon addition of a toxin, the aggregate response of a population of cells exhibits a rapid drop in mitochondrial potential (red), followed by a modest increase and slow decay in cytosolic calcium (green), and a gradual increase in membrane permeability (blue).

Analysis of four individual cells (inset graphs) enhances the details of the sequence and timing of events identified in the well-level analysis. In contrast to the average population response, the changes for all three indicators show unique profiles when viewed at the single-cell level.

KineticScan HCS Reader Specifications

Instrument Hardware

- 5X, 10X, 20X, and 40X Magnification Objectives
- Fully Automated Optics
- 1500-hour Mercury-Xenon Illumination Source
- Filters spanning a wide spectral range to enable all commonly used fluorophores
- Selectable laser-based or software-based auto focusing
- High resolution cooled CCD camera

Integrated Live Cell Chamber

- Temperature control (ambient to 45°C)
- Carbon dioxide control (ambient to 10%)
- Supplemental humidity to reduce evaporation

Integrated Pipette System

- Eight-channel pipette system with independent control of each channel
- Compatible with 96-well glass-bottom and plastic-bottom microplates
- Temperature regulated bulk reagent station (4 to 45°C)
- Two ambient temperature compound or reagent plate positions

Instrument Computer Control System

- KineticScan software for control of data acquisition, processing, analysis and pipette scheduling
- 1.7 GHz Dual Pentium 4 processors with Microsoft® Windows® 2000 Operating System
- CD/DVD-RW and CD-ROM
- 17" high-resolution monitor
- Color Ink Jet Printer

Data Management System

- Cellomics® Store Software/Hardware with 1TB image and data storage capacity
- vHCS™:View Client for remote data access

Target Activation BioApplication
(included with instrument)

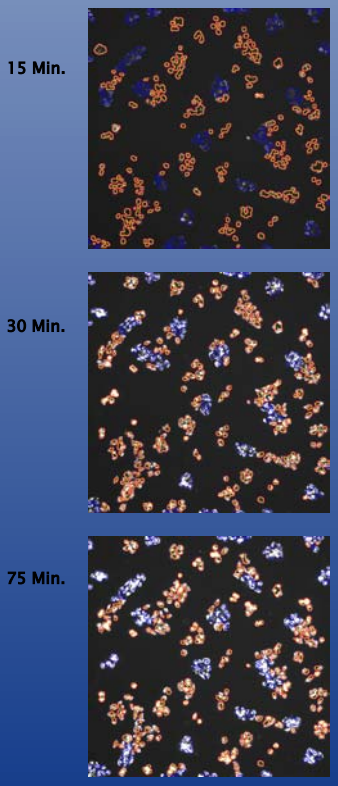
- A six-channel application that measures fluorescence intensity and kinetics on a cell-by-cell basis

Compartmental Analysis BioApplication

- A six-channel application that measures redistribution events such as receptor internalization and cytoplasm to nucleus translocation
- Calculates intensities and intensity ratios in four cellular domains for each image
- Able to detect and quantify "spots" in single cells

Expanding list of biological measurements that have been performed on the KSR using either Target Activation or Compartmental Analysis BioApplications:

- Multiple Drug Resistance (MDR)
- Cell Spreading
- Receptor Internalization
- Calcium, Sodium and Potassium Mobilization
- Plasma Membrane Potential
- GFP Expression
- Cytosolic pH
- Lysosomal pH
- Mitochondrial Transmembrane Potential
- Cell Permeability
- Cell Proliferation
- Cytotoxicity
- Oxidative Stress
- Nitric Oxide
- Cell Motility
- GPCR Signaling Events
- Glutathione depletion
- Apoptosis



The KineticScan HCS Reader enables automated time course profiling of a fluorescent MDR substrate entering cells after treatment with an inhibitor of MDR activity.

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