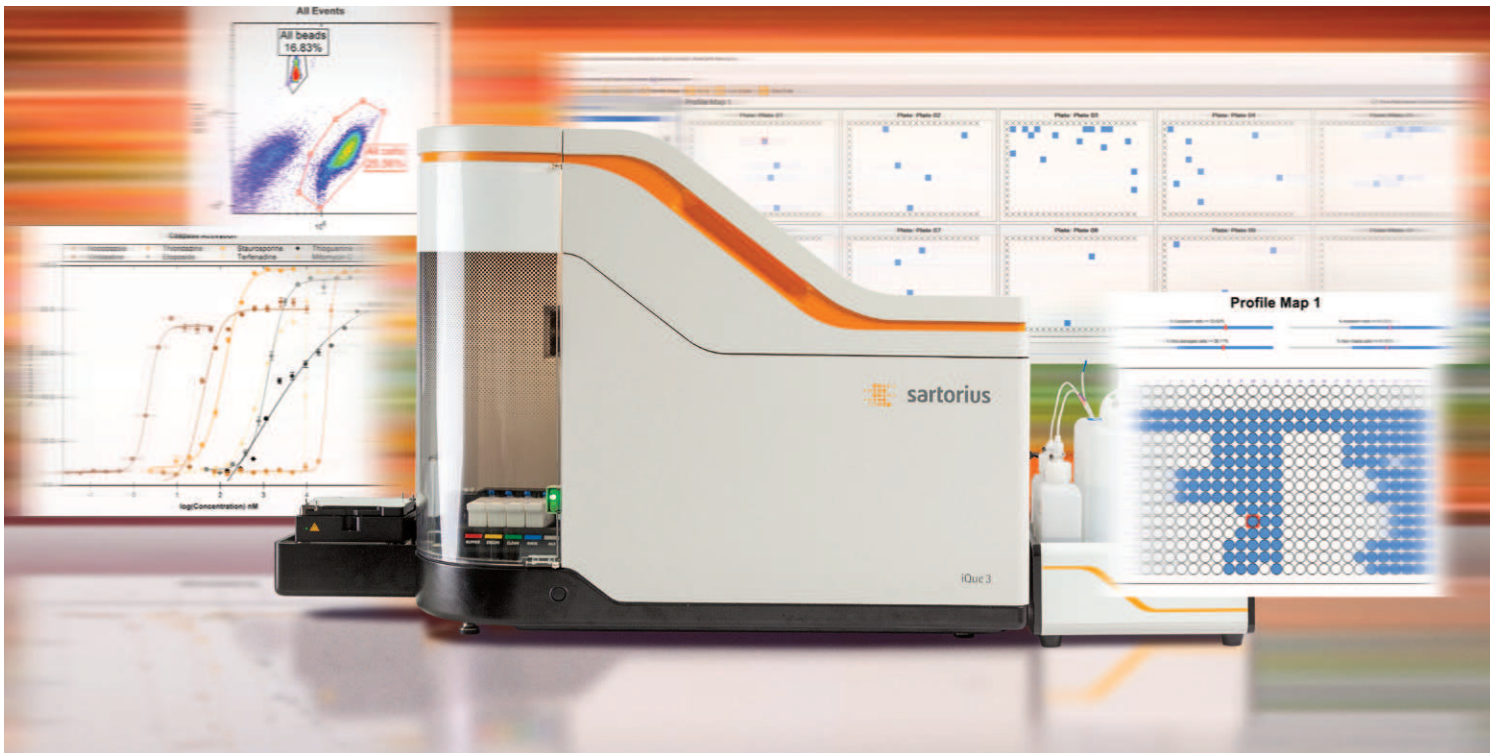


## Eliminating Data Analysis Bottlenecks with ForeCyt Software for iQue3



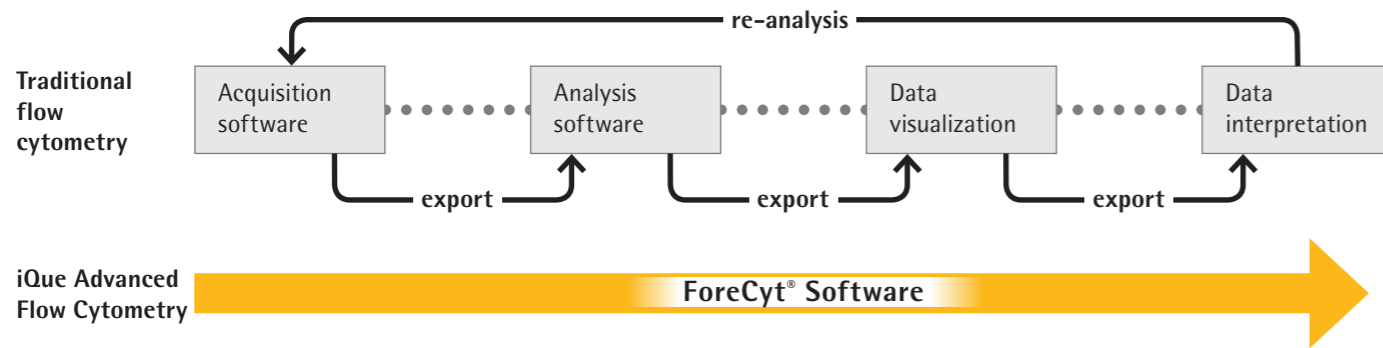
# Interactive assay development, analysis and multi-parametric data visualization

ForeCyt software, at the heart of the iQue platform, provides a fully integrated yet easy-to-use interactive assay development, analysis and visualization environment removing the need to manage and learn multiple software packages.

Alongside all the required standard analysis tools required for flow cytometry data, ForeCyt software offers plate-level annotation and data visualization tools not found in traditional flow-based software programs. From the linking of data from multiple wells to the combination of several assay outcomes to identify "hits" that meet fully customizable selection criteria, ForeCyt software significantly shortens your time from sample acquisition to the generation of decision making insights.

ForeCyt software seamlessly and intuitively performs tasks from acquisition to analysis without the need to perform any export/import steps, taking you to actionable answers that will progress your research programs faster than any other flow based solution.

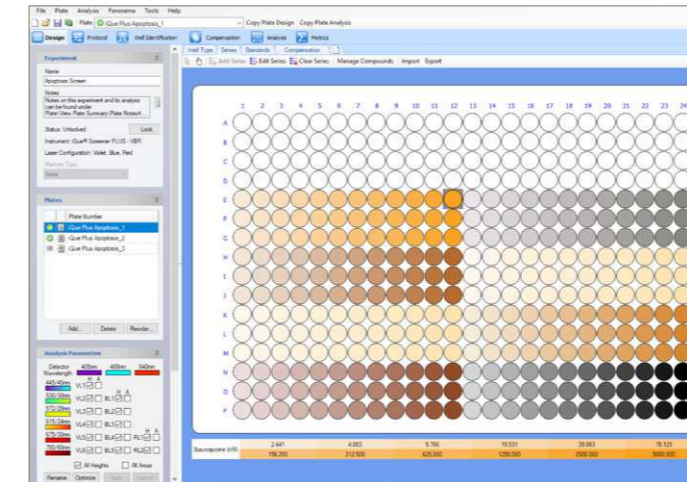
## Workflow Comparison



Traditional Flow cytometry Data Analysis Workflows versus one unified workflow using ForeCyt Software on the iQue3. Traditionally scientists have been required to export and import data between several software packages in order to go from acquisition to analysis to data visualization and even to statistical packages for interpretation of their data. ForeCyt software provides all of this functionality in a single easy to follow workflow to get to actionable answers in record time.

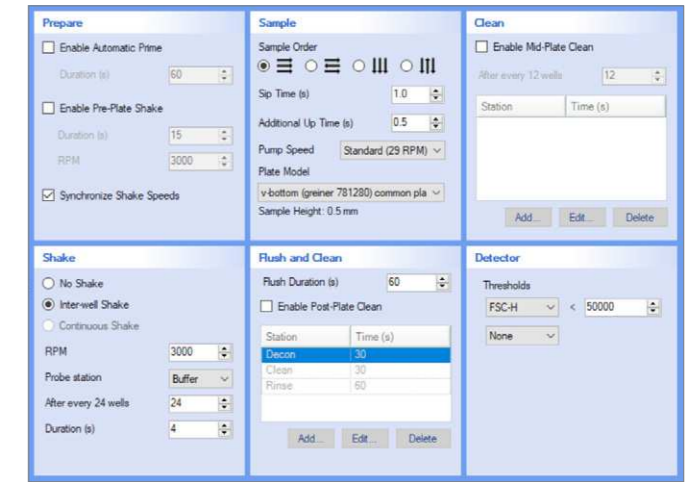
# Simple, intuitive experiment and data acquisition set-up

ForeCyt software lets you rapidly customize your sample acquisition, probe rinsing, plate shaking, and sampler cleaning parameters, with user-friendly set-up tools.



## Design Experiment Tab

Define sample type/location and additional annotation layers such as dilution series, cell types and other parameters that can be used in downstream analysis.



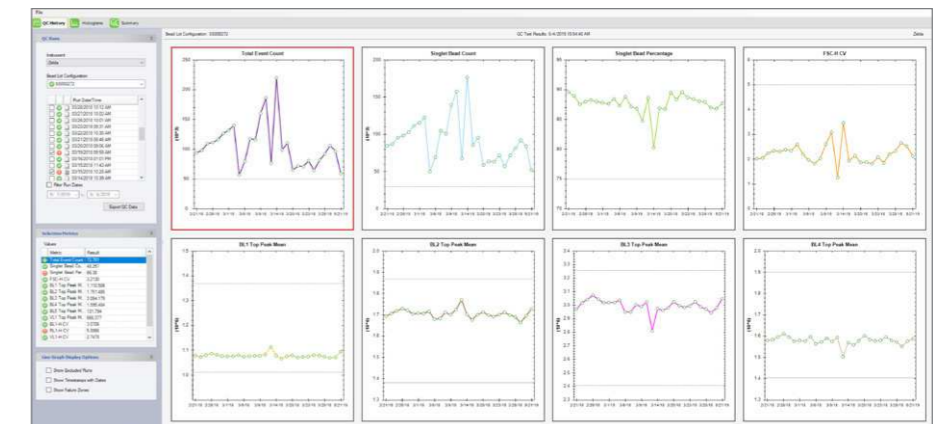
## Acquisition Settings and Worklist

Intuitive and user-friendly acquisition panels facilitate quick-start experimentation set-up.



## Software Monitoring of Rinse Station Fluid Levels

A new Enhanced Rinse Station (ERS) has been incorporated in the iQue3 and combined with ForeCyt software integration provides intelligent reagent level monitoring and reporting to help avoid reagent insufficiencies.



## Automated QC Tracking

Automated data analysis and tracking of QC functionalities allows identification of potential instrument performance issues before running precious samples.

# Powerful Data Analysis and Visualization Tools

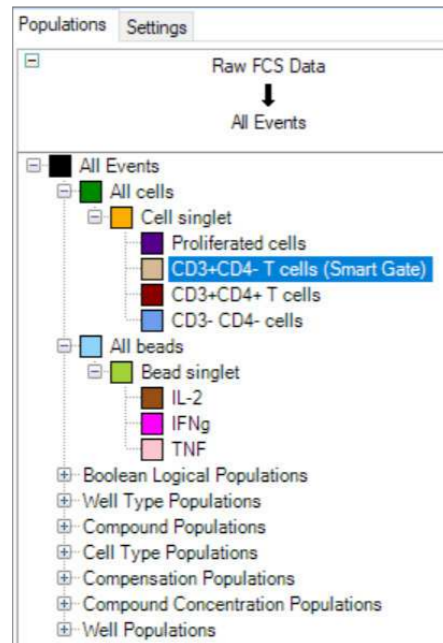
ForeCyt software provides all standard flow cytometry analysis tools and incorporates plate level analysis and visualization features that accelerate and simplify analysis and interpretation of large, multi-parametric data sets. Six unique analysis tools quickly transform even the most complex experimental data sets into actionable results and eliminate the need to perform time consuming analysis of data files on a well-by-well basis.

## Advanced Gating Tools

Gating on the cells of interest within data sets can be a tedious and sometimes daunting task. ForeCyt has built-in gating tools which help simplify the identification of the correct cells and can even automatically adjust gates when needed through the use of smart gates.

### Smart Gates

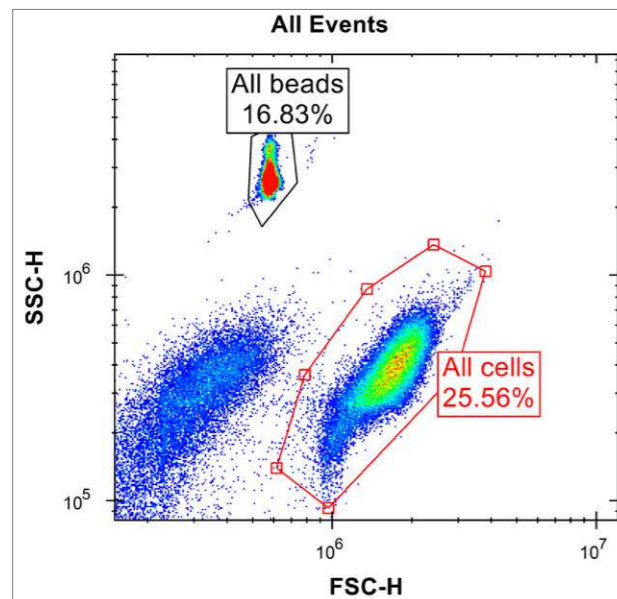
Smart Gates automatically center themselves on the closest dense area on the graph, and are an invaluable update if you have a multiparametric experiment with a cell population that may shift over time. Any time the data updates, changes, is cleared, or more data are added, the Smart Gate will calculate its new position.



Smart Gates can be applied to any gate from the plot itself or within the population tree.

### Back Gating

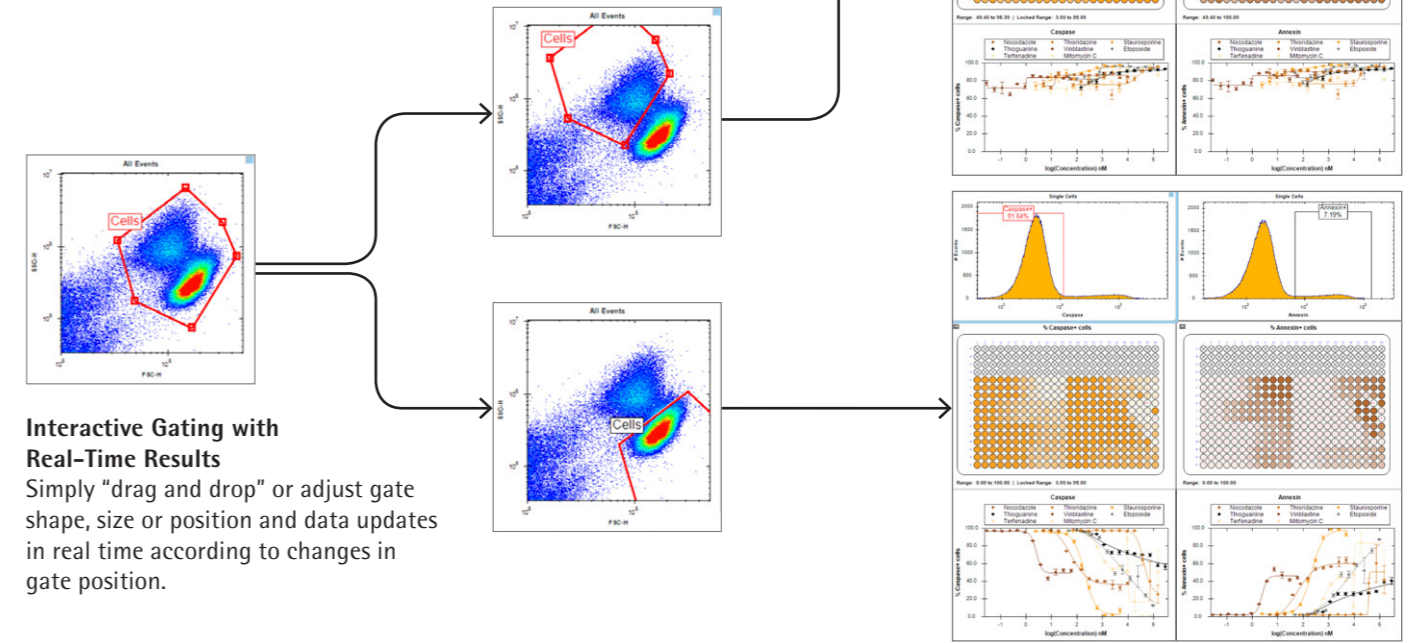
Back Gating is a feature that identifies where the cells within a gate are located in the all events plot. Any gate can be used as a Back Gate and multiple Back Gates can be used simultaneously to visualize distinct populations of interest all on a single plot.



Single step population verification: identify where the cells within your gates fall in the all events plot.

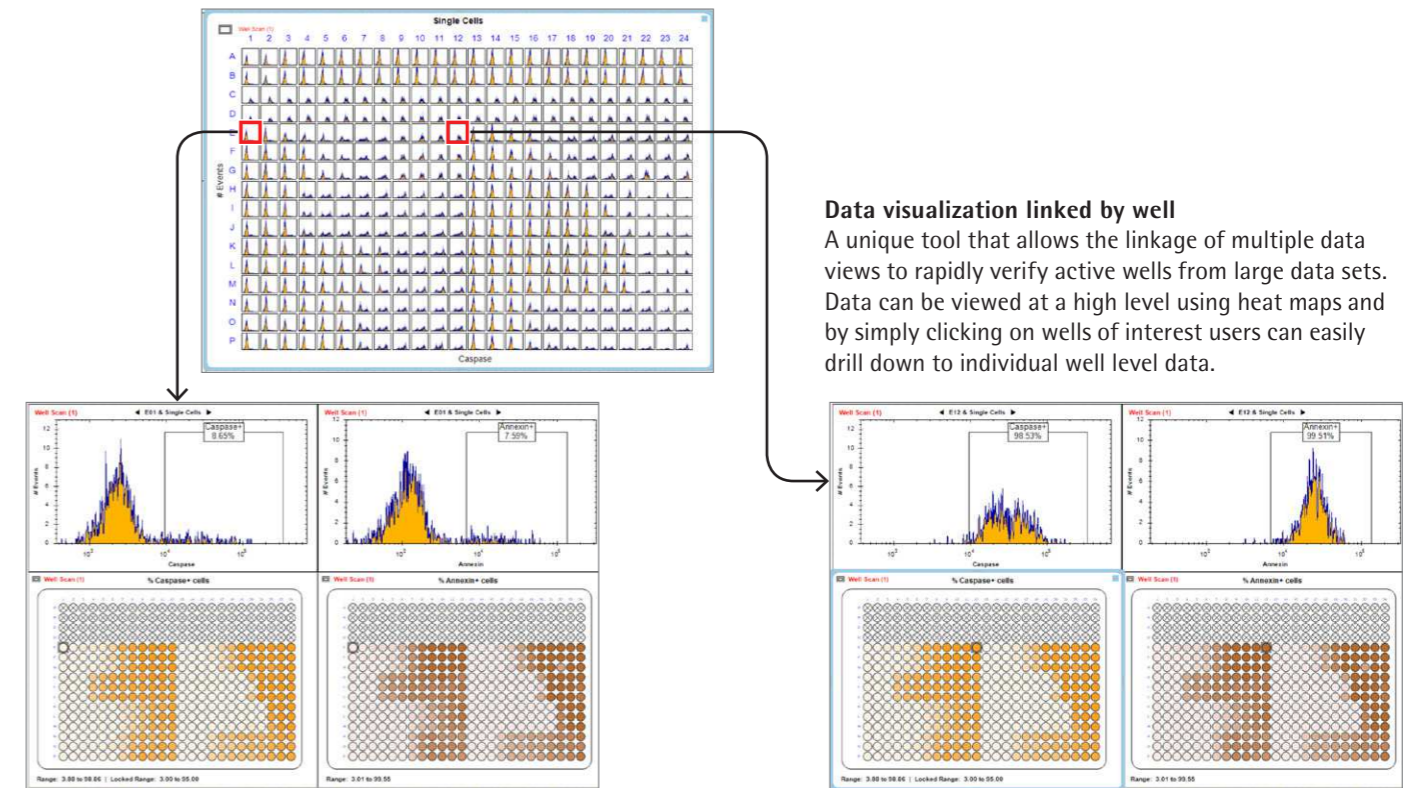
## Opti-Gate: Interactive gating with data updates in real-time

Simple and rapid analysis optimization by gating on an entire plate of data at once using control wells to guide desired gating strategy. Changing gate position results in data being updated in real time, allowing gating strategy effects to be visualized immediately across the entire plate.



### Interactive Gating with Real-Time Results

Simply "drag and drop" or adjust gate shape, size or position and data updates in real time according to changes in gate position.

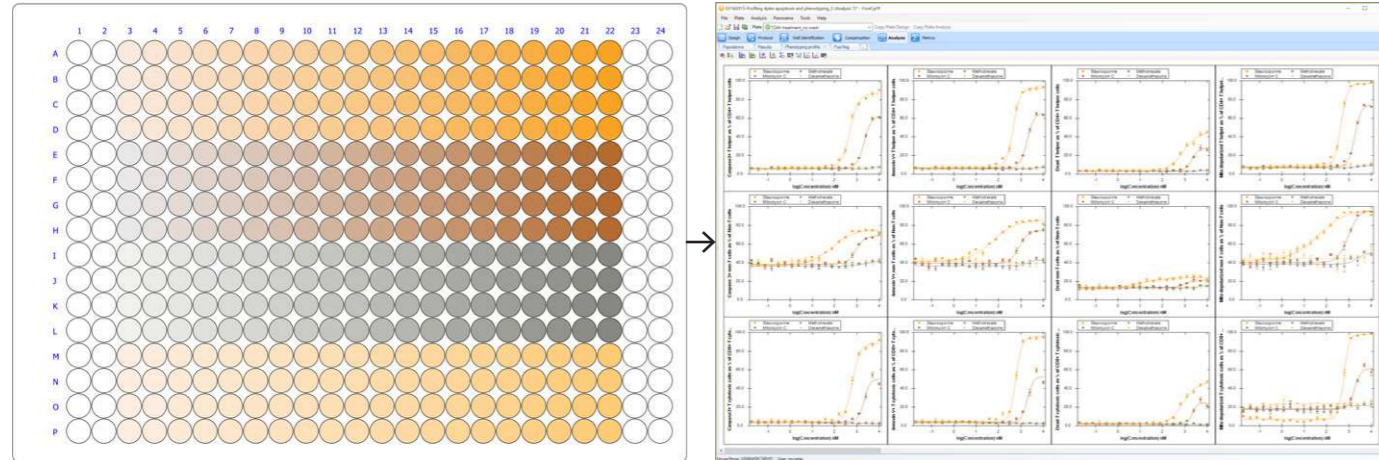


**Data visualization linked by well**  
A unique tool that allows the linkage of multiple data views to rapidly verify active wells from large data sets. Data can be viewed at a high level using heat maps and by simply clicking on wells of interest users can easily drill down to individual well level data.

Data visualization linked by well. Shown: 8 dose response series of Staurosporine treated Jurkat cells. Clicking across the wells allows visualization of the changing histograms down to individual well level in response to Staurosporine concentration.

## Simple dose-response curve generation

ForeCyt software is the only flow cytometry analysis package that can automatically generate dose-response curves, providing a faster time to result by eliminating the need to export your raw data into a separate software package. When linked together with scatter plots or histograms the impact of changes to gating strategies on dose response curves can be instantly visualized.

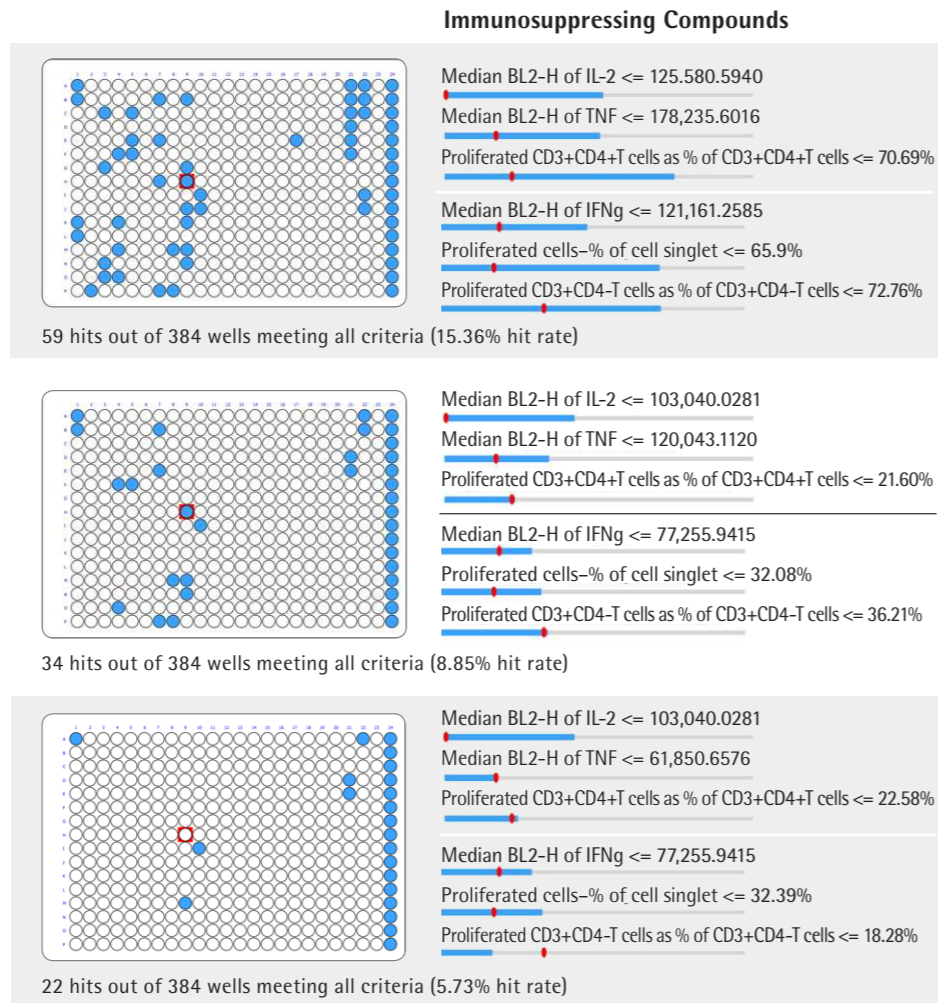


Dose-response curves for four compounds which induce apoptosis in PBMCs. PBMCs were immunophenotyped into three subpopulations and dose-response curves generated for each population for caspase positive, Annexin V positive, membrane permeability and mitochondrial depolarization using a curve fitting algorithm. Quickly generate dose response curves for all experiments across an entire plate.

## Instant active identification with information Profile Maps

Make sense of high content data and identify samples with desirable activity fingerprints faster. ForeCyt combines assay outcomes (profiles) with Boolean logic to instantly locate specific wells that meet your multiplexed criteria using Profile Maps. User definable profiles can be easily created by selecting from any metric created during upstream analysis. Dynamic adjustment of activity ranges within the selected metrics enable real time hypothesis testing or optimization of activity ranges to align unknown samples with positive and negative controls.

Profile Map. By changing the slider bar specifying the acceptable limit of a chosen parameter, different wells with corresponding characteristics can be rapidly identified. Here, the selected well remains constant, but as the slider bars are adjusted, different wells of interest across the plate are highlighted based on the expression of each parameter.



## Combined analysis of multi-plate experiments with Panorama

Take a snapshot of your entire experiment with ForeCyt's unique Panorama tool. View multiple plate data simultaneously to compare heat maps, identify hits across profile maps, and rank wells by any metric with user definable line graphs.



Panorama view. Easily visualize "hits" across multiple plates according to different metrics. In this example 10 plates were analyzed simultaneously using the Cyclone Plus kit which Correlates IqG titer-per-cell with cell health information and cell growth readouts. The wells which meet the user identified selection criteria are highlighted instantly for each plate.

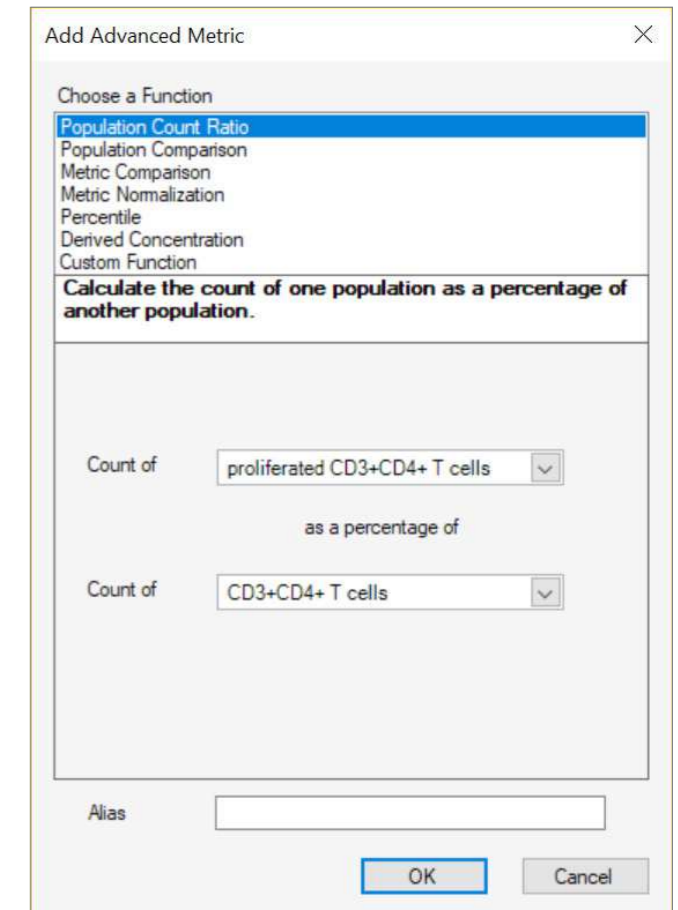
## Custom metric creation and report generation using software wizards

Create custom metrics derived from basic metric building blocks using a simple wizard.

Whether standard or custom, all metrics are available for additional analysis, visualization and/or exporting.

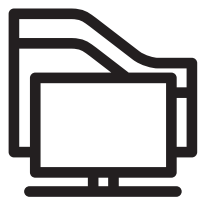
A report generation wizard makes it easy to document your work in electronic notebooks and share it with your team.

ForeCyt makes your data presentations quick and easy with high quality image exporting options up to 1200DPI. Images can be drag and dropped directly into any Microsoft Office application ensuring your presentations or reports truly reflect the data observed in ForeCyt.



Customize metric output using ForeCyt's software wizards.

# ForeCyt Configuration Options – Scalable to meet your growing needs



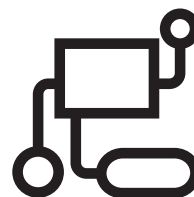
## Standard Edition

A standalone solution which comes with each instrument. This can be used to set up experiments, acquire data and analyze results on the PC attached to the instrument.



## Offline Edition

Ideal for users that want to analyze data away from the laboratory. No network connection required. The user's PC hosts its own ForeCyt database, which requires the manual import/export of experiments and templates to/from the instrument. This version has no acquisition capabilities and is for experiment set-up and analysis purposes only.



## Enterprise Edition

A scalable solution for multi-user or multi-instrument environments. The ForeCyt database can be hosted on a remote server or on the instrument PC. Floating client licenses are connected directly to the ForeCyt database over your network eliminating the need to import/export data and allowing multiple users to set up, run and analyze experiments simultaneously from any PC connected to your network. There is no limit to the number of PCs on which ForeCyt can be installed, however the number of concurrent users is limited to the number of floating client licenses purchased. Single or multiple additional floating licences can be added as your demand increases.

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iQue3 Flow Cytometer Configurations	Lasers	Channels	Plate Formats	Cat. No.
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