

Name: Lab: E-mail: Phone:

The ImageStream is a high-speed automated microscope that captures images in flow and numerically quantifies cellular morphology and the intensity, location and co-location of fluorescent probes within tens of thousands of cells per sample. This technology thus provides objective and statistically robust presentation of image-based data. Please read the sample preparation guide and answer the following questions related to the experiment you plan to try on the instrument during the demonstration.

The type of application I wish to try (x all that apply):

Translocation of signaling molecules
Molecular co-localization
Internalization / phagocytosis
Sub-cellular localization
Conjugate analysis/Cell fusion
Apoptosis/necrosis/autophagy
Morphology-based cell classification
Shape Change
Spot counting
Cell cycle/mitosis
Flow confirmation/artifact rejection
Other (please describe):

These ImageStream features are important for my application (x all that apply):

Numerical quantitation of imagery
Automated image collection
Large sample sizes and population statistics
Rare event analysis by microscopy
Other (please describe):



Briefly describe the purpose of the experiment and expected results:

Why is this application difficult to do with existing technologies I have access to?

Experimental details:

Cell Type:

Markers, dyes, probes to be used:

Have you used those probes before?

Number of samples (1-10):

Expected number of cells per sample (minimum 1 million cells per test):

Expected frequency of rarest cell of interest:

Biologic positive control:

Biologic negative control:

Luminex. complexity simplified.