ImageStream Experimental Evaluation Worksheet

Name:	
Lab:	
E-mail:	
Phone:	

This document will help you define your ImageStreatm evaluation experiment and help us guide your sample preparation and produce satisfying results.

The *ImageStreamX* is a high resolution high speed automated microscope that numerically quantifies cellular morphology and the intensity, location and co-location of fluorescent probes within tens of thousands of cells per sample. The ImageStream system can be equipped with 20x, 40x and 60x objectives to accommodate a wide range of microscopy experiments. It can also be equipped with optics that image the entire cell simultaneously in focus for accurate spot counting. This technology thus provides a wide range of objective and statistically robust microscopy applications. Please answer the following questions related to the experiment you plan to try on the instrument.

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

Translocation of signaling molecules
Molecular co-localization
Internalization / Phagocytosis
Sub-cellular localization / Clustering
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):



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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:	
Expected number of cells per sample:	
Expected frequency of rarest cell of interest:	
Biologic positive control:	
Piologic negative central:	
Biologic negative control:	

