

ImageStream^X Cytometry: High Speed High Content Image Analysis of Cells and Particles in Flow

Topic: Imaging Flow Cytometer - The technological issues on apoptosis research and its applications on cell signaling and cell-cell interaction

Date: 18 Oct 2010 (Monday)

Time: 10:00 – 11:45 A.M.

Operator: Scott Mordecai, Field Applications Scientist, Amnis Inc.

Venue: Rm 505, Basic Medical Sciences Building, CUHK

The ImageStream® is a multispectral imaging flow cytometer that generates high resolution images of cells at high rates of capture. Using the IDEAS image analysis software, the system objectively quantifies hundreds of features based not only on fluorescence intensity but also related to morphology and probe location and co-location. Using this novel approach the ImageStream^X seamlessly combines the quantitative power of flow cytometry with the high content information associated with microscopy, especially for rare events.

The seminar will include a brief description of the technology along with a primary focus on data from several example applications, including:

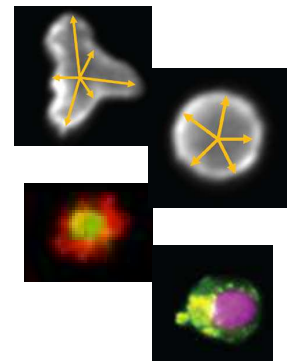
Apoptosis

Cell Signaling / Nuclear Translocation

Internalization / Co-localization

Shape Change and Chemotaxis

T cell/APC Interaction



Workshop (Rm, 414, Basic Medical Sciences Building, CUHK)

18 Oct 2010 (2:00 – 5:30 P.M.)

Hands-On with ImageStream Technology (~2 Hours)

- Instrument overview
- Sample Acquisition - NFκB translocation in LPS stimulated monocytes

Data Analysis and Discussion (~2 Hours)

- Spectral compensation of samples
- Data Analysis of NFκB translocation experiment

Sample run on request for individual research group

19 – 20 Oct 2010

(If you would like to run your samples on the ImageStream^X,

please call or email us at 2896 6283 or sales@genehk.com for a technical discussion about your applications before Oct 18.)



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