FRED HUTCHINSON CANCER RESEARCH CENTER
A LIFE OF SCIENCE

CompuCyte

Northwest Cytometry Users' Group

Laser Scanning Cytometry Technology Seminar

Quantitative Imaging Cytometry in Biomedical Research, Drug Discovery and Biomarker Development

November 18th 8:30am-12noon

Where:	**Fred Hutchinson Cancer Research Center** Room B1-072, Weintraub Building 1100 Fairview Ave. N., Seattle, WA Directions: www.fhcrc.org/about/maps/campusmap.html www.fhcrc.org/about/maps/driving_directions.html
8:00-8:30am	**Registration. (Pre-registration is appreciated. Register here.)**
8:30-8:45am	***Welcome:*** Julio Vazquez, Director, Scientific Imaging Lab, Fred Hutchinson Cancer Research Center and Juliane P. Hill, Sr. Scientist Pre-Clinical Development, ZymoGenetics, Seattle, WA.
8:45-9:15am	***"Laser Scanning Cytometry: Quantitative Imaging Cytometry in Life Sciences, Drug Discovery and Research Pathology"*** - Raffi Manoukian, Sr. Scientist, CompuCyte Corporation, Westwood, MA
9:15-9:55am	***"Regulation of Cell Cycle Transitions" –*** James Jacobberger, Professor of Oncology, Case Western Reserve University and Director, Cell Analysis Core, Case Comprehensive Cancer Center, Cleveland, OH
9:55-10:35am	***"Assessment of DNA Damage Response in Relation to Cell Cycle and Induction of Apoptosis by Laser Scanning Cytometry"*** - Zbigniew Darzynkiewicz, Director, Brander Cancer Research Institute, New York Medical College, Valhalla, NY
10:35-11:15am	***"Coupling Fine Needle Aspirates with Imaging Cytometry to Sample Caspase-3 Activation in Tumors" -***Stephen Zoog, Senior Scientist, Clinical Immunology, Translational Medicine, Amgen, Thousand Oaks, CA
11:15-11:45am	Questions and Discussion
12:00-1:00pm	***Lunch***
1:00-5:00pm	***Technology Demonstration*** – Raffi Manoukian, CompuCyte Corporation Core Imaging Facility, Room DE-512, Thomas Building Fred Hutchinson Cancer Research Center Seattle, WA; Directions: http://www.fhcrc.org/science/shared_resources/imaging/ *(Demonstrations will also be available on Wednesday, November 19, 9am – 5pm)*

Instrumentation available on-site:

iGeneration Imaging Cytometers utilize proprietary laser scanning technology to enable quantitative measurements of cellular biochemical constituents and simultaneous evaluation of cell morphologies. The technology allows automated quantitative imaging cytometry on solid-phase samples, including adherent cultured cells, tissue sections, tissue microarrays, and cytology specimens stained with fluorescent and chromatic dyes. For more information please visit www.compucyte.com.

Lasers and commonly used dyes:

- *Violet (405 nm)* - DAPI, Hoechst 33342, and Qdot™ excitation;
- *Blue (488 nm)* - FITC, GFP, Alexa Fluor® 488, PE, and PE-Cy5 excitation Propidium Iodide, DAB, BCIP absorption.
- *Red (633 nm)* **-** Cy5 and Alexa Fluor® 647 excitation. Hematoxylin, Nova Red and Methyl Green absorption.

Sample evaluations are welcomed by appointment. Please indicate your interest when you register. (See below.)

Registration and request for sample evaluations:	***The conference is free of charge but pre-registration is appreciated.*** **Register online here.**
Faculty sponsor contact information:	Julio Vazquez, PhD, Director of Scientific Imaging, Fred Hutchinson Cancer Research Center, 1100 Fairview Ave. N., Seattle, WA Office: 206-667-1215/ Lab: 206-667-4205; email: **jvazquez@fhcrc.org**