



Jeudi 21 avril 2011

Joint CYTOO - ArrayScan (Cellomics) Practical Workshop

Automated High Content Cell Analysis

Using CYTOO's Cell Normalization Technology for Fast and Reliable Cell Analysis
with CYTOO on Zeiss MetaMorph and ArrayScan VTI

Presentations Technologies et Applications : 10h30-11h50

Début
10h30

2 Ateliers Pratiques (en parallèle):
Zeiss MetaMorph/CYTOOchips/Analyse
ArrayScan/CYTOOplate/Analyse

3 sessions (1h30) :
12h00 14h00 16h00

Reducing assay variability and developing efficient acquisition and image analysis methodologies are key in reaching high quality quantitative cell analysis both in fundamental cell biology and in a vast range of High Content Analysis (HCA) assays. This practical workshop will introduce researchers to a new powerful technology based on CYTOO's **adhesive micropatterns** which normalize cell architecture down to their internal organization, reduce most of the variability encountered in cell biology and allow to quantitatively phenotype cells when screening drugs, inactivating genes or to phenotype tumor cells. The workshop will focus on the practical aspects of using micropatterned cell supports (**CYTOOchips and CYTOOplates**) in a model "dose-response" drug assay. After short presentations of CYTOO and ArrayScan (Cellomics) technologies, during the practical sessions, we will demonstrate how to:

- (i) efficiently automate the image acquisition with cells plated on micropatterned CYTOOchips using **ArrayScan VTI and Zeiss/Metamorph**;
- (ii) apply image cell analysis algorithms to measure parameters of interest within individual cells (using **ArrayScan iDev software or ImageJ macros**);
- (iii) obtain statistically relevant data with only 50 cells.

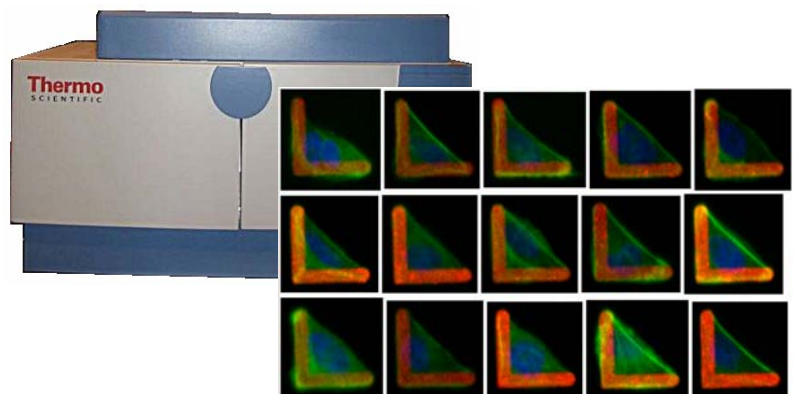
The presented technology may be adapted to a wide panel of cell-based assays both for fixed and live cell imaging.

www.mri.cnrs.fr
www.cytoo.com
www.thermo.com/hcs

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HeLa cells on L-shape micropatterns imaged on ArrayScan VTI