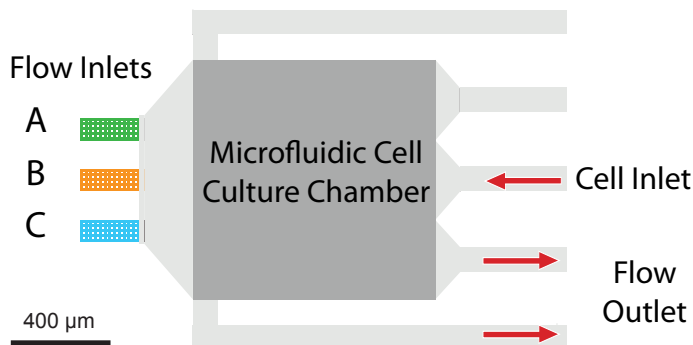


# ONIX™ Microfluidic Perfusion Plates

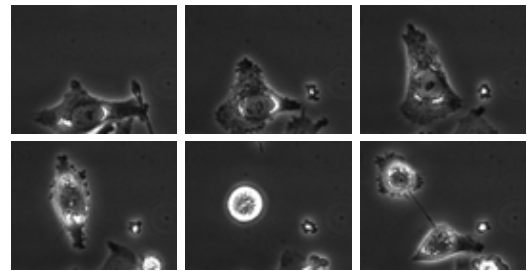
ONIX™ M Series Microfluidic Perfusion Plates are designed for high quality time-lapse imaging of mammalian cells. The plates are easy to use, cutting down prep time to under 5 minutes to eliminate the hassles of traditional perfusion chambers. The unbeatable combination of a user friendly interface and advanced microfluidic technology makes the ONIX the best perfusion system for live cell imaging.

## Unparalleled Cell Culture Quality on Your Microscope

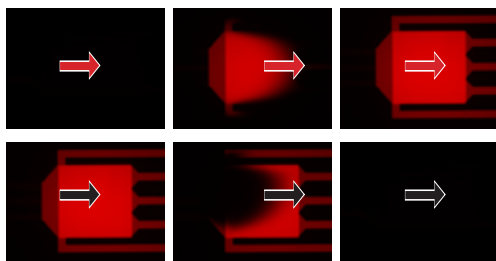


The innovative microfluidic chamber design ensures cell health during long term imaging.

Microfluidic perfusion enables continuous live cell imaging for over 3 days without replenishing media.

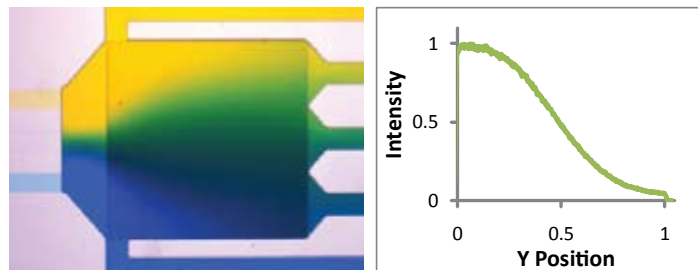


### Solution Switching



Laminar flow switching between 3 solutions with a changeover rate of seconds.

### Spatial Gradient

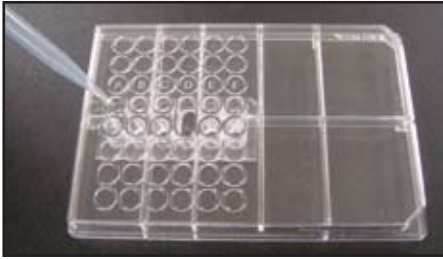


Create a stable diffusion gradient between 2 or 3 solutions. Adjust the flow rates to modify gradient profiles.

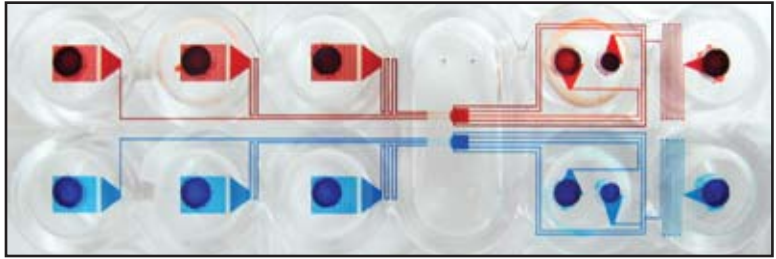
## Study Examples

- GFP/CFP/YFP Expression
- Protein Localization
- Nuclear Shuttling
- Time Lapse Movies
- Toxicity Assays
- Cell Cycle Analysis
- Organelle Tracking
- And many more

## 1. Pipet cell samples and media solutions into wells



Independent flow units allow multiple experiments to be run at the same time

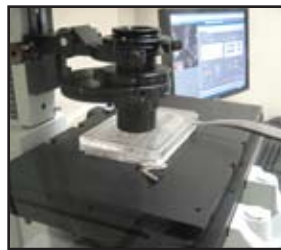


Wells lead to microfluidic channels and culture chambers on a #1.5 thickness glass coverslip surface

## 2. Seal manifold to plate and place on microscope

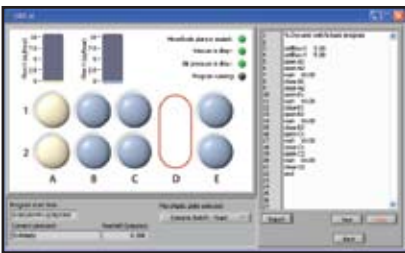


ONIX Flow Controller Manifold seals to Microfluidic Plate



Easy integration into your current microscope system

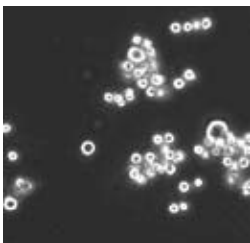
## 3. Program media exposure protocol



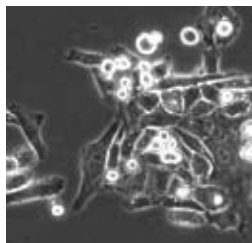
Schedule time-varying flow inputs.

Simple user interface gives the flexibility to cycle different media solutions and create automated exposure programs.

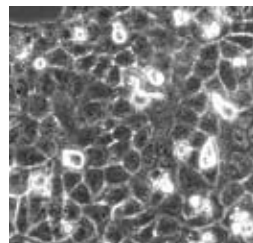
## 4. Perfuse and image



t=0 hrs



t=24 hrs



t=72 hrs

Run programmed flow protocol and begin imaging. Record time-lapse movies without manual supervision.