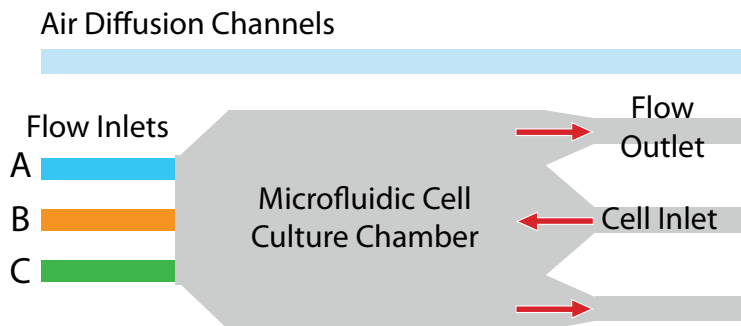


ONIX™ Microfluidic Perfusion Plates

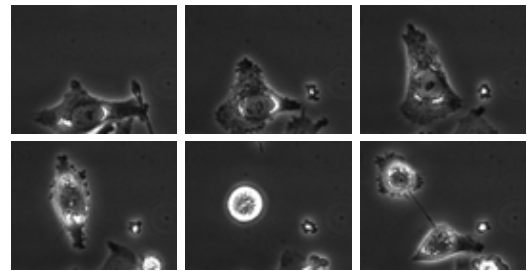
ONIX™ M Series Microfluidic Perfusion Plates are designed for high quality time-lapse imaging of mammalian cells. The plates are easy to use, cutting down prep time to under 5 minutes to eliminate the hassles of traditional perfusion chambers. The unbeatable combination of a user friendly interface and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

Unparalleled Cell Culture Quality on Your Microscope

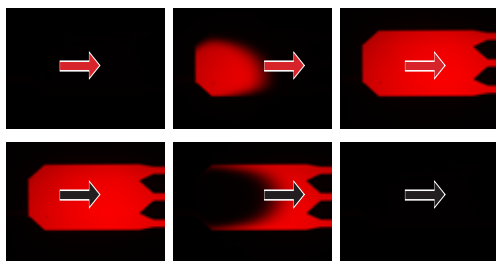


The innovative microfluidic chamber design ensures cell health during long term imaging.

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

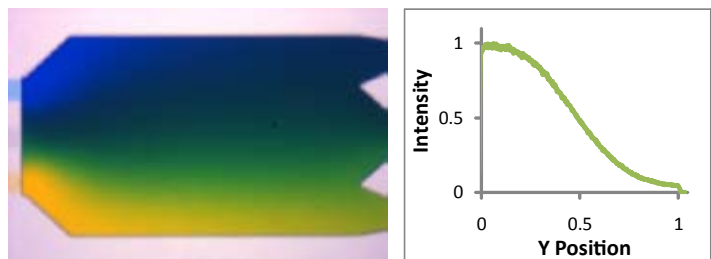


Solution Switching



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

Spatial Gradient

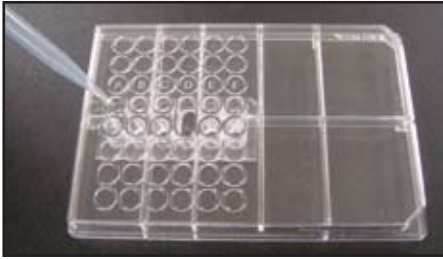


Create a stable diffusion gradient between 2 or 3 solutions. Adjust the flow rates to modify gradient profiles.

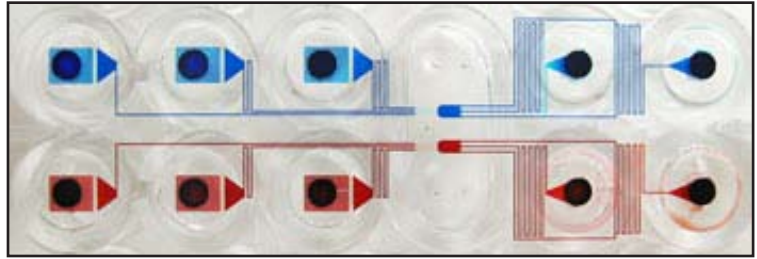
Study Examples

- 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

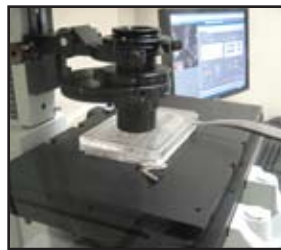


Wells lead to microfluidic channels and culture chambers on a #1.5 thickness glass coverslip surface

2. Seal manifold to plate and place on microscope

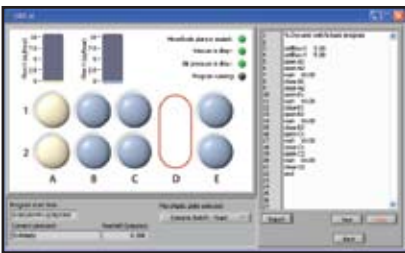


ONIX Flow Controller Manifold seals to Microfluidic Plate



Easy integration into your current microscope system

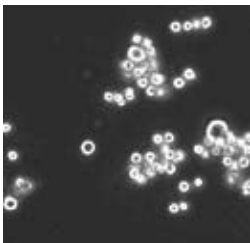
3. Program media exposure protocol



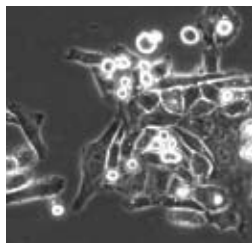
Schedule time-varying flow inputs.

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

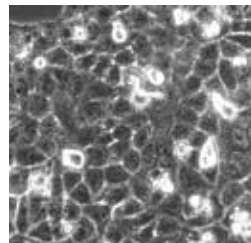
4. Perfuse and image



t=0 hrs



t=24 hrs



t=72 hrs

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