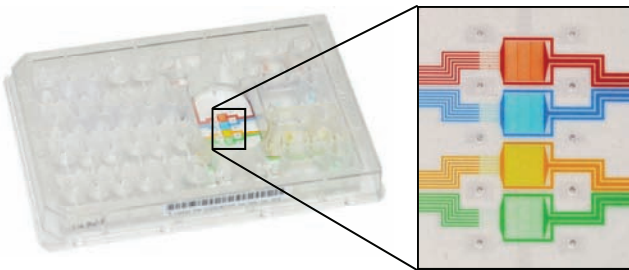


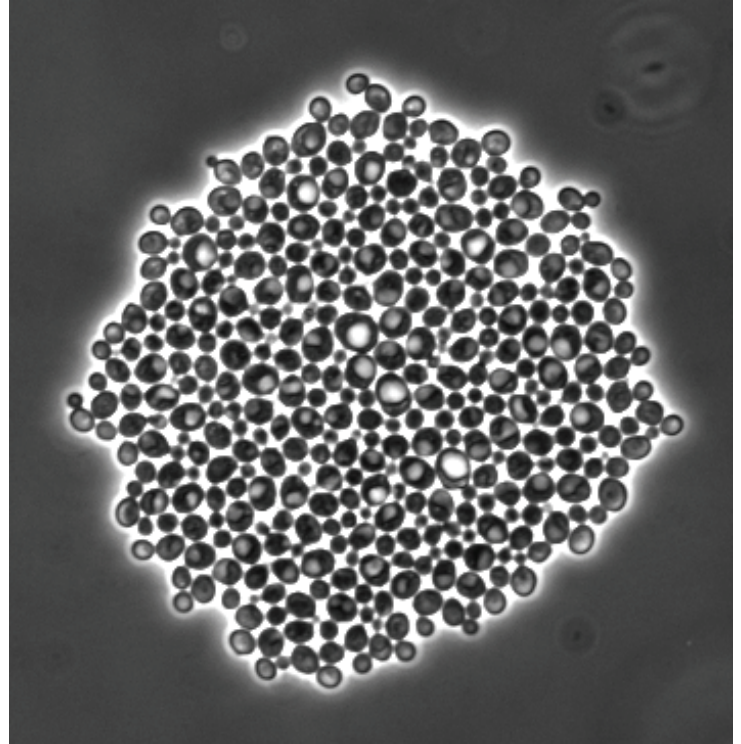
## Microfluidic Flow Cell for Yeast



Winner of 2010  
R&D100 Awards



The Yeast Microfluidic Plate was designed to offer the highest end features for yeast cell microscopy



Perform multi-generation tracking of cells while maintaining a single focal plane for 12+ hours (image: *S. cerevisiae*, 40X)

## Live Cell Imaging Made Simple

The ONIX combines the latest advances in microfluidic technology and live cell perfusion into an easy-to-use platform. Our Y-Series microfluidic plates provide unprecedented control and quality for yeast microscopy.

The innovative microfluidic chambers are designed to hold yeast cells in a single focal plane, allowing you to follow and induce cell events during high magnification imaging. Automated perfusion protocols can be programmed into the CellASIC FG Software for precise changes from media to drug.

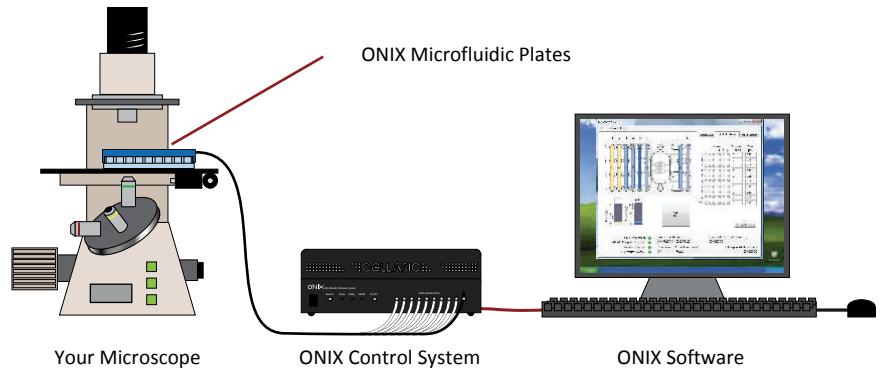
## Application Examples

- Cell Response to Media Change
- Induction of Cell Cycle Events
- GFP-linked Nuclear Trafficking
- Live Cell Microscopy of Mitosis
- Starvation and Recovery
- Gene Expression
- Protein Localization
- Mitochondria Inheritance
- Phase Contrast, Fluorescence, DIC

## Features and Benefits

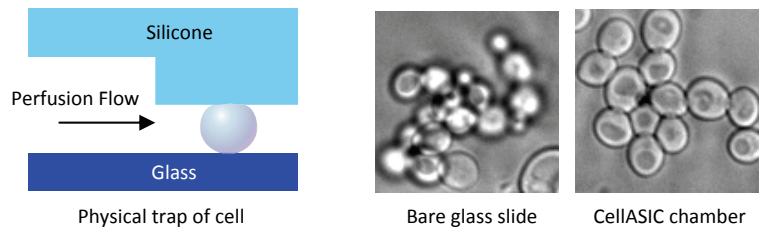
- **Integrates with your microscope:** Fit to any inverted microscope to create a live cell imaging station.
- **Microfluidic Cell Culture:** Proprietary microfluidic chamber maintains cells in focus and precision laminar flow creates a highly stable cell environment.
- **Multiplexed Culture Chambers:** Independent flow chambers allow simultaneous experiments on one plate.
- **Pressure Driven Flow:** Eliminates setup time while delivering more accurate flow control compared to typical syringe pumps.
- **Microscale Flow Control:** Software interface allows you to program solution exposures and change media solutions in real-time during an experiment.
- **Application Specific Format:** CellASIC offers a growing number of microfluidic plates that operate on the ONIX platform. This flexibility and expandability allows many experiment types to be run in this innovative format.

## Works with your inverted microscope



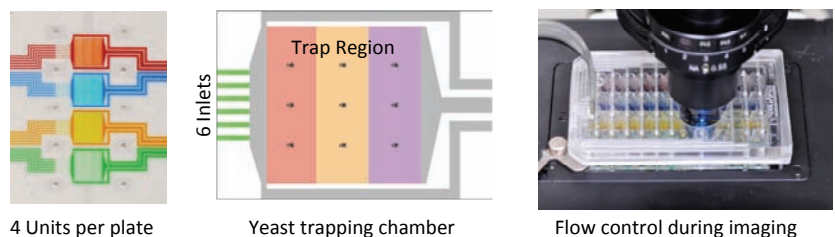
The ONIX system and plates work with any standard inverted microscope. The easy set up and flexibility allows you to perform live cell imaging experiments with confidence.

## Trapping chamber keeps cells in perfect focus



Track yeast over multiple generations for 12+ hours while maintaining a single focal plane. The microfabricated chamber gently holds cells against the glass imaging surface to maintain a single focal plane during perfusion imaging experiments.

## Unparalleled perfusion control



The ONIX software allows automated scheduling of solution exposures during live cell imaging. The Y04 plate allows up to 4 chambers to be operated in parallel, each with 6 upstream solutions. The highly laminar flow provides uniform exposure profiles and minimal stress on cells.

**CELLASIC**

www.cellasic.com | 866-316-1259