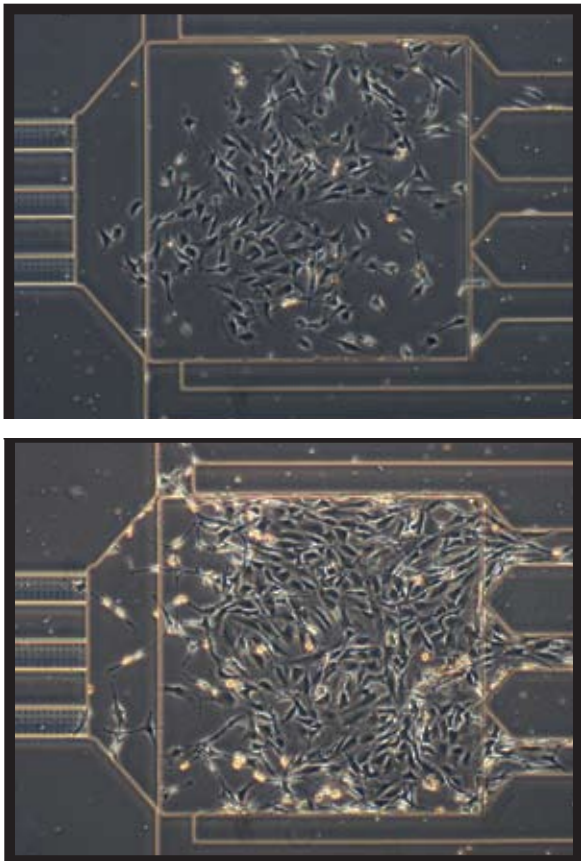
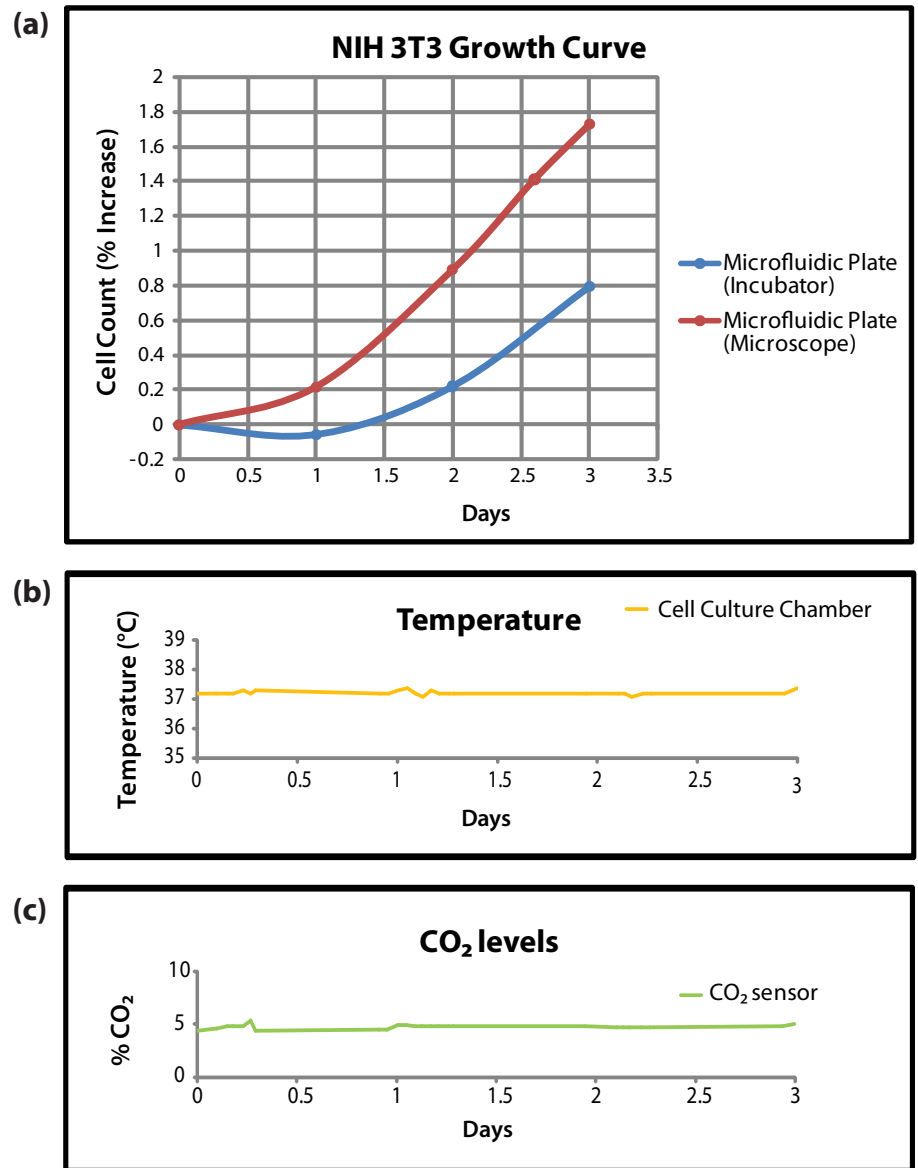


# Multi-day Perfusion Culture on Your Microscope

CELLASIC microfluidic plates are designed for long term cell culture with media perfusion both on a microscope for live imaging of cell behavior as well as in a standard cell culture incubator.



**Figure 1:** NIH 3T3 cells in a M16 microfluidic plate (40x). Second and third day of growth under pressure driven media perfusion with microincubation on inverted microscope.



**Figure 2:** (a) Cell growth curves of NIH3T3 cells in the M16 microfluidic plate in an incubator and on a standard inverted microscope are displayed above. Growth is indicated as percentage increase from initial cell count. The (b) temperature and (c) CO<sub>2</sub> levels of the cell culture chamber in the microscope culture plate are also displayed.

Culture Method	Doubling Time (hours)
Microscope	45.85
Incubator	63.433

**Table 1:** Doubling time of NIH 3T3 fibroblasts for each of the cell culture methods calculated from exponential interpolation.