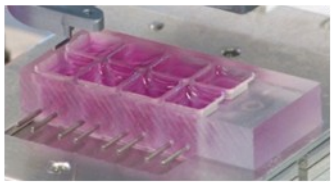
InvivoSciences, Inc.

Discovery with a Human Touch

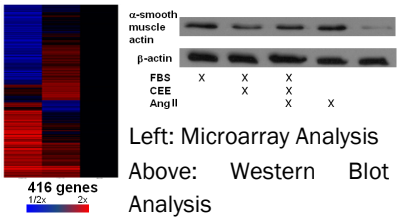
Multi-parameter Phenotypic Profiling: Cell and Tissue Mechanics, Microscopy, Spectroscopy, and Gene/Protein Analyses

MC-8™

Mini-Construct Chamber™ (MC-8™) is a disposable plastic 8-well tissue culture module, enabling researchers to conveniently fabricate three-dimensional (3D) tissue constructs. Perform multiple assays using same 3D tissue constructs over several days



Harvest 3D tissues for profiling gene and protein expression, kinase activities and metabolite concentrations

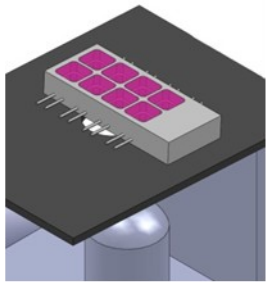


Left: Microarray Analysis
Above: Western Blot Analysis

Palpator™

Our premier tissue-based assay instrument, the Palpator™, automatically quantifies the mechanical properties of the engineered tissues.

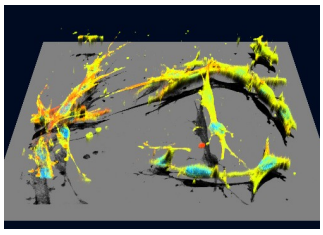
Assess cellular and tissue mechanical properties (contractility and stiffness) with our fully automated "click-to-run" assay system.



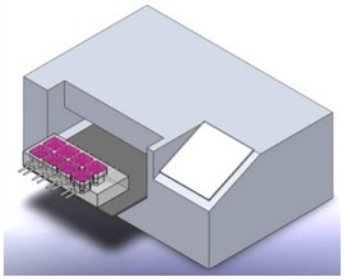
Microscopy

Phase and fluorescent microscopy can be used to monitor, in real time or fixed samples, any changes in cell morphology or localization of specific proteins of your interests.

Correlate cell morphology and cytoskeletal integrity to cellular and 3D tissue contractility and stiffness.



3D confocal micrograph of REF-52



Automated Spectroscopy

Fluorometric or colorimetric assays can be used to assess the physiological characteristics of cells and tissues.

3D cell culture significantly improved sensitivity and dynamic fluorescence detection range to quantify

- Intracellular F-actin
- Mitochondrial membrane potential
- Viability

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