

CytoCypher MultiCell System

High throughput Calcium and Contractility measurements

Automated data collection

Greater statistical power

Fast batch analysis software

Providing all of the precision of our standard Calcium and Contractility System, the MultiCell System enables researchers to fully quantify and characterize the speed and amplitude of shortening and calcium handling in far greater numbers of myocytes.



IonOptix MyoStretcher

Attach, Stretch, and Measure Force

Measure absolute force from a single myocyte

Measure shortening and calcium under load

Programmable stretch waveforms

Force Clamp in a Single Myocyte: Work Loops

Fast feedback clamp of pre- and after-load forces

Programmable control of pre- and after-load levels



Join us for our workshops!

On Isolated Cardiac Myocyte Experimentation: High Throughput Calcium/Contractility and Mechanics Measurements

Days... August 31st, September 1st, September 2nd (tentative)

Times... 12:00 to 13:00

In the first workshop, we will demonstrate our high throughput system for calcium and contractility measurements on intact, isolated myocytes, our protocols for these experiments, plus the analysis and statistical treatment of the resulting data sets. In the second workshop, we will address mechanical experiments on intact and permeabilized cardiac myocytes and muscle strips. A third workshop is tentatively planned, visit our booth for more information.

C-Pace EM / C-Stretch / C-Dish

Electrical stimulation and simultaneous stretch and stimulation of cells in culture

New user-friendly software

Customizable protocols to mimic physiological conditions

Fully customizable trapezoidal waveform with adjustable expansion, holding and contraction phases

Chronic electrical stimulation has been shown to prevent de-differentiation of cardiomyocytes and maintain their rod shaped, striated morphology, while electrostimulation coupled with mechanical stretch offers a powerful tool to promote maturation of naive cell lines.



Intact Whole Tissue Chamber

Simultaneously record calcium and force in intact and skinned muscle preparations

Characterize stiffness with a precision piezo motor

Electrically isolated force transducer

Designed to accommodate common muscle preparations:

- Cardiac papillary muscle of many species

- Cardiac endocardial strips or trabeculae

- Cardiac epicardial strips

- Skeletal muscles, e.g., soleus, extensor digitorum longus (EDL), gastrocnemius, cremaster (mouse, rat)

