

Nautilai™



Turnkey Multiwell Calcium and
Voltage Mapping for Cells and Tissues



Get Translational Data Earlier

Nautilai™ enables high-throughput analysis of electrophysiology and calcium transients.

Interrogate the electrophysiology of your cells and tissues at the push of a button. Nautilai works with virtually any SBS-standard multiwell plate and can provide information rich output on samples from 2D monolayers to complex 3D organoids, with automated analysis powered by Curi Bio's Pulse™ platform.

Nautilai is a high performance, flexible platform that enables you to utilize electrophysiological data for a wide range of 2D and 3D applications in drug screening and discovery. Nautilai works with the entire Curi Bio ecosystem of products; including MantaReady™ disease and wild type cells, and the Stingray™ tissue stimulator.

Nautilai Data Capture & Analysis

CULTURE: Discover New Biology

Gain deep insights into the electrophysiology of your cells with an automated, push-button workflow. Acquire and analyze data in minutes, not days.

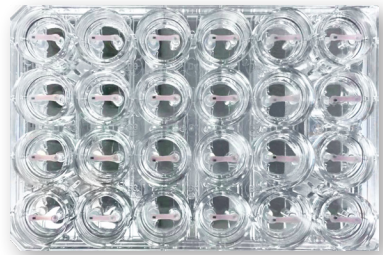
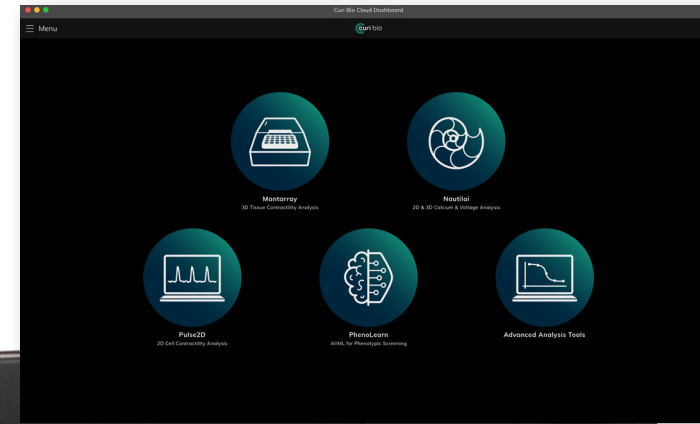
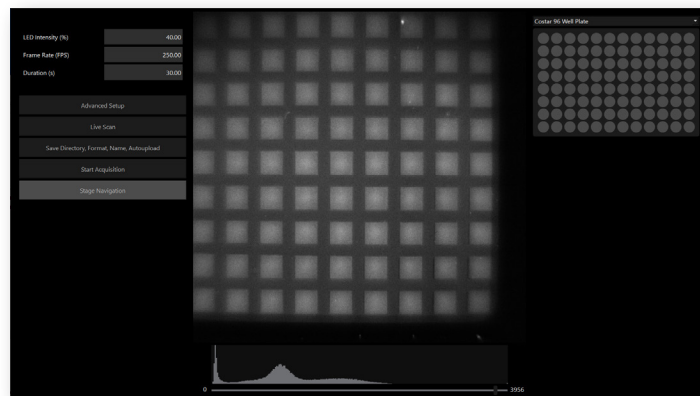


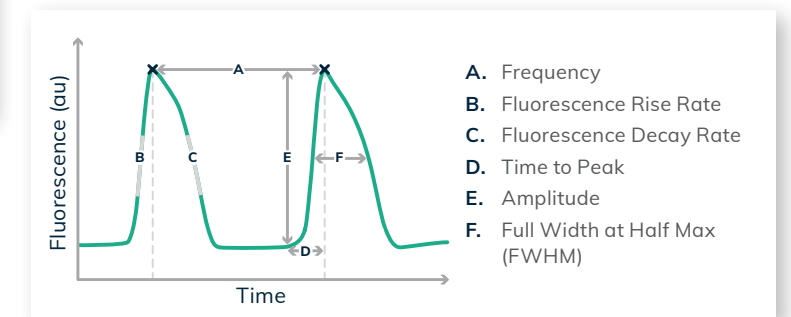
IMAGE: Workflow Simplicity

Easy-to-use data acquisition studio. No MATLAB or manual programming skills needed. All GUI.



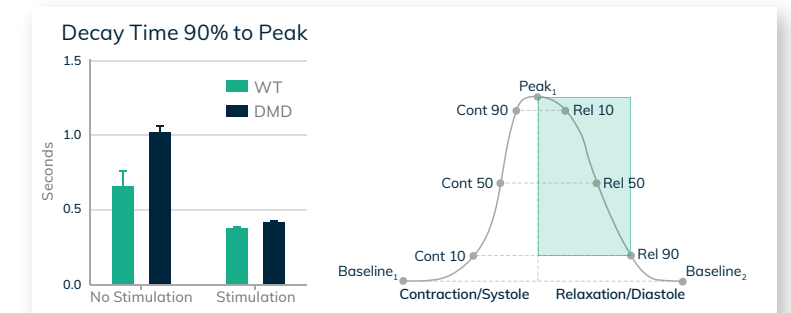
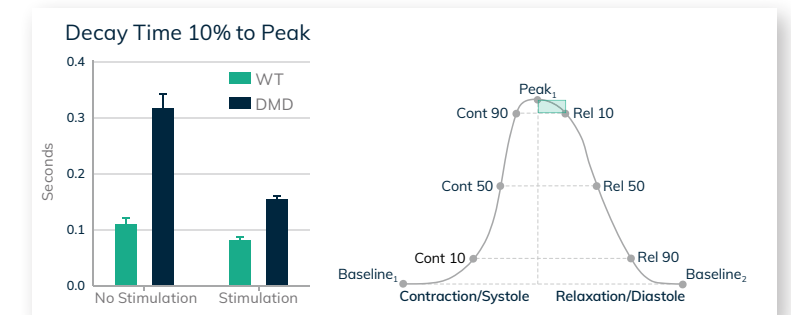
ANALYZE: Calcium & Voltage Measurements, Action Potential, & Key Electrophysiology Metrics

The Pulse data analysis platform provides a wide range of key metrics including conduction velocity, action potential duration, calcium transient, calcium amplitude, triangulation, upstroke velocity, beat rate, time to peak/relaxation, and more.



DECIDE: Data Drives Decisions

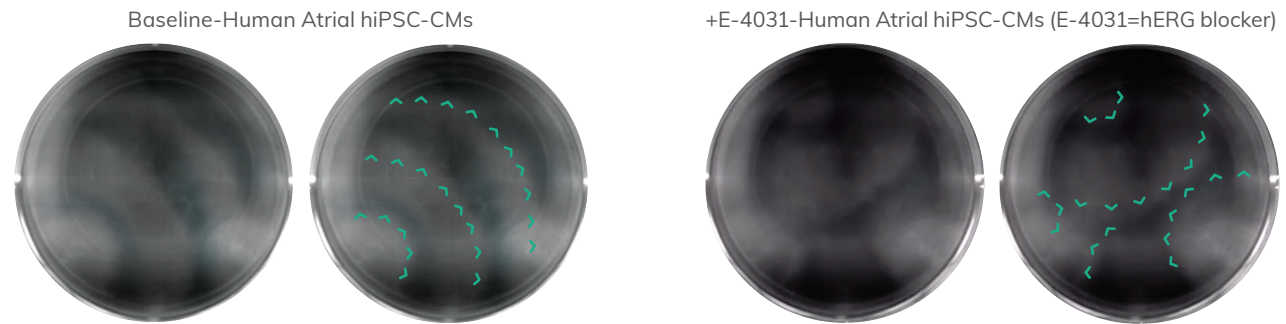
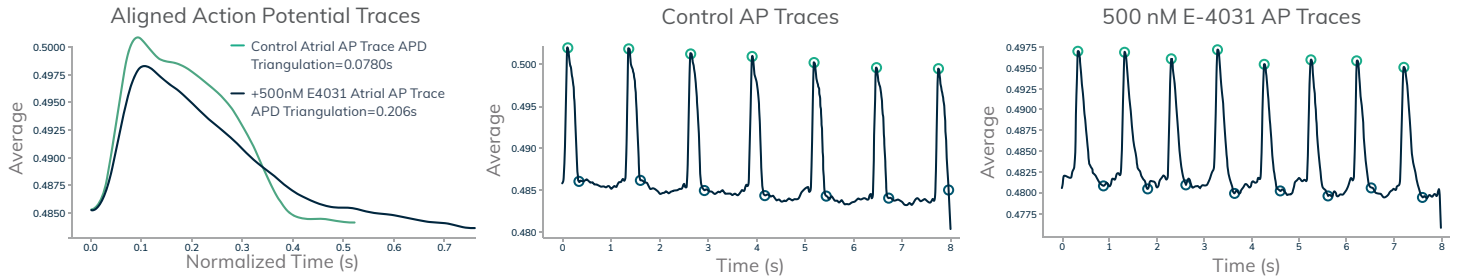
Lead your research forward with information-rich output on samples ranging from 2D monolayers to complex 3D organoids.



Nautilai™ Applications

Easy Measurement of Action Potential Kinetics

By detecting the mechanics of disease conditions in muscles, Nautilai enables high-throughput screening and discovery applications. Here, Nautilai accurately detected conduction arrhythmias in human atrial hiPSC-CMs by measuring the prolongation and triangulation of Action Potential (AP) in response to E-4031 compound.



Measure Dose Response Curves: Powered by Pulse™

Pentamidine, an antiprotozoal agent, has been traditionally known to cause QT prolongation and arrhythmias. Here, we are showing the dose response cardiotoxicity of Pentamidine in human atrial iPSC cardiomyocytes using the Nautilai optical mapping instrument.

