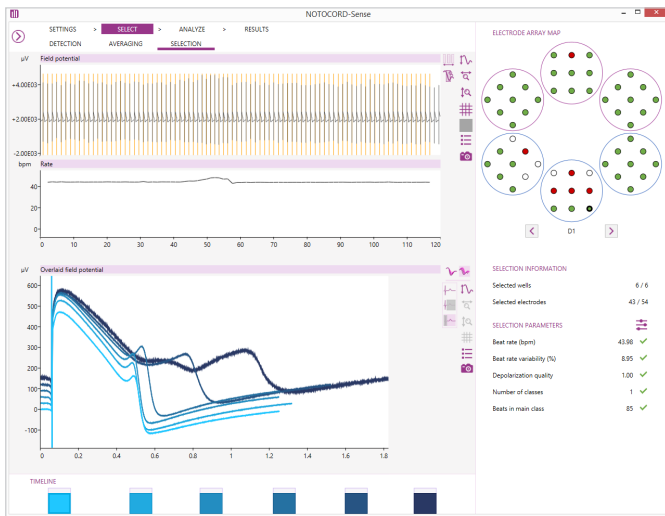


NOTOCORD-SENSE™ FIELD POTENTIAL SCREENER

Powerful analyzer for iPSC field potentials data collection, analysis and reporting, from MEA devices.



Field potential waterfall display with NOTOCORD-Sense™ FPS

KEY FEATURES

- Relevant beat averaging
- Automated QA control of signals
- Abnormal event indicator
- Customizable detections
- Step by step and user-friendly interface

OVERVIEW

How to achieve **reliable screening** to predict the effect of experimental drugs on the cardiac system at an early stage in drug discovery and development?

With NOTOCORD-Sense™ Field Potential Screener (FPS), NOTOCORD® gives the pre-clinical research industry the power of field potential analysis on **Human pluripotent stem cells derived cardiomyocytes** (hPSC-CMs).

hPSC-CMs share many features with human cardiomyocytes. Field potential recorded with Micro Electrode Arrays on these cells allows to detect a wide range of drug effects on the electrophysiological properties of cardiomyocytes.

NOTOCORD-Sense™ FPS is the ultimate solution to **quickly and efficiently analyze** the huge amount of data generated with such a system. It is designed to enable appropriation and understanding of this technology and to be fully integrated in the usual drug discovery and development process.

SPEEDING UP YOUR ANALYSIS

NOTOCORD-Sense™ Field Potential Screener (FPS) enables you to perform your field potential analysis in a **fast and efficient** way.

Write your protocol once and reuse it for all similar experiments: criteria, curves and calculations will be automatically applied. Plate compound organization and experimental scheduling will be automatically adapted to the current experiment.

A **library** allows you to save and reuse the reference beats you've marked with your expertise for further analysis. **The more you use the software, the more it learns, and the less you have to manually mark.**

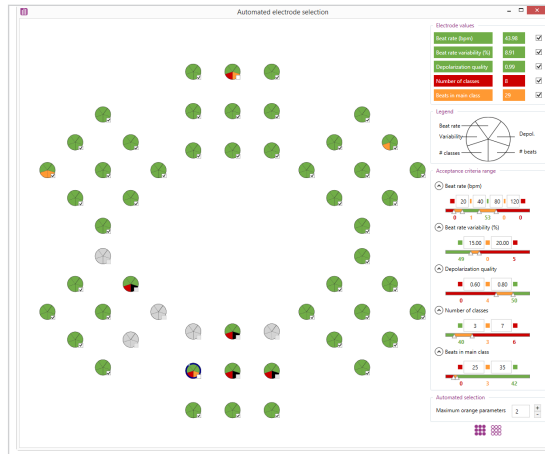
Finally, 15 minutes of a fully automated process (a batch processing is available to start several analysis together) and 15 minutes of review, enables you to get the full results for an experiment with a control and 5 concentrations, on a 6-well plate with 54 electrodes.

RELEVANT BEAT

To improve marking quality, FPS averages beats with similar shape after a thorough classification of beats for each electrode and analysis period. A relevant average beat is then defined as the most representative beat from the control period: the main beat.

AUTOMATED ELECTRODES QA CONTROL

One of the most important step in the analysis is **the selection of the electrodes that show stable signals** and not too noisy ones. NOTOCORD-Sense™ Field Potential Screener (FPS) provides an automatic selection of the electrodes for which the control period **meets the user defined criteria** such as rhythm or morphologic variations. **Unsuitable electrodes are automatically rejected from the analysis.** Keeping all the other ones, will provide an analysis based on a greater number of results.



Electrodes selection according to user-defined range on several criteria

FULLY CUSTOMIZABLE ANALYSIS

NOTOCORD-Sense™ Field Potential Screener (FPS) enables you to define up to 26 possible characteristic points and all possible derived calculations (amplitude, duration, slope...). It identifies in the main beats of control period some reference beats and allows you to **place your mark of interest** on them. **Marks are propagated on all the other main beats.**

ABNORMAL EVENT INDICATOR

Marking beats allows to calculate the evolution with increasing concentration of your parameters of interest. Nevertheless, the presence of abnormal beats is a precious information revealing proarrhythmic effect of the compound. NOTOCORD-Sense™ Field Potential Screener (FPS) enables you to quickly identify concentrations that potentially trigger such events, **through user-defined thresholds.**

INTERESTED?

Scan and find more information, screen-shots and system requirements on our website: www.notocord.com.



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