



FOR IMMEDIATE RELEASE

### **iWorx Systems, Inc. Introduces a Zebrafish ECG Recording and Analysis System for Cardiac Research**

Dover NH, December 8, 2014 – iWorx Systems, Inc., a developer of advanced physiology teaching and research instruments and software, has introduced a compact, non-invasive system (patent pending) for recording and analyzing ECG data from Zebrafish. The system is ideal for the rapid screening of new drug

entities and for modeling processes such as thrombosis, collateral vessel development, inflammation, cardiomyopathy, and cardiac regeneration.



The iWorx Zebrafish ECG System includes a high resolution, low noise single channel recorder running iWorx LabScribe3 recording software with the ECG Analysis Module. The system also comes complete with a Zebrafish pedestal, electrodes and cable assembly.

iWorx LabScribe ECG Analysis Module automates the analysis of ECG data. Specific analysis templates are included to accurately delineate PQRST onset, durations and amplitudes. Custom templates can also be created

based on unique ECG profiles and saved to a library for future use. Other features include beat averaging, beat classification, outlier removal, Pointcaré plots, scattergrams and the ability to easily extract source data and average data as images or text files. Also included is a comprehensive list of 24 calculations including R-R, PR, QT, QR and QTc intervals, QRS, T, P and TP durations, P, Q, R, S, T amplitudes and ST elevation.

To record the ECG, the Zebrafish is placed in a 2-phenoxyethanol anesthetizing solution (1:1000 dilution) for approximately 3 minutes until there is minimal gill motion. The fish is then positioned on its back on a pedestal, which is positioned under Ag/AgCl surface electrodes that are connected to the iWorx recorder. The electrodes are placed on the fish and data is recorded for 5 – 10 minutes. The fish is then placed in a recovery bath. The amplified ECG curves are recorded and analyzed using iWorx LabScribe ECG Recording Software.

More information on iWorx Zebrafish ECG Recording and Analysis System can be found on [iWorx Web site](#). Contact iWorx Systems, Inc., 62 Littleworth Road, Dover, NH 03820 (T) (800) 234-1757, (F) (603) 742-2455, [billm@iworx.com](mailto:billm@iworx.com).

#### **About iWorx**

*iWorx advanced research solutions include high performance recording hardware, software, and components that accelerate metabolic, cardiovascular, neuromuscular and respiratory physiology*

research. In addition to data acquisition systems, iWorx offers a full selection of signal conditioners, stimulators, transducers, electrodes, cables, and general-purpose laboratory equipment and accessories.

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