



Harvard Bioscience Presents Data, Symposium Session and New Products at Neuroscience 2018

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HOLLISTON, Mass., Nov. 02, 2018 (GLOBE NEWSWIRE) -- Harvard Bioscience, Inc. (Nasdaq: HBIO), a global developer, manufacturer and marketer of a broad range of solutions to advance life science, is presenting its new neuroscience products and applications for preclinical life science research at Neuroscience 2018, the 48th annual meeting of the Society for Neuroscience (SfN) in San Diego on November 3-7.

"With all three of our commercial units participating in this event, customers and researchers will be able to see the full scope of Harvard Bioscience's expertise in neuroscience. We will have team members on hand from our Ephys, DSI and PCMI businesses, sharing their expertise through symposiums, poster presentations and product demonstrations," said Jeffrey Duchemin, President and CEO of Harvard Bioscience. "We look forward to this event with great anticipation and excitement as we help our customers advance their work in neuroscience research."

Scientific and Educational Events Highlight Impact of Harvard Bioscience Research Solutions

- Five speakers from prestigious academic research centers will share their wireless *in vivo* neural recording and stimulation research using Multi Channel Systems and Triangle Biosystems International's technology in the symposium "Wireless *in vivo* Neural Recording & Stimulation," on Monday, November 5 from 6:30 PM to 8:30 PM in the San Diego Convention Center, Room 2. For more information: <https://www.smart-ephys.com/event/sfn-satellite-event-on-in-vivo-electrophysiology/>
- Highlights of Triangle BioSystems' (TBSI) development progress with high channel count recording, electrical and optogenetic stimulation, and implantable capsule technology will be presented in a poster "High Channel Count Wireless Neural Recording and Stimulation for *in vivo* Electrophysiology for Non-Human Primates" (Poster #172.01/III39) on Sunday, November 4 from 8:00 AM to 9:00 AM. The abstract can be found here: <https://www.abstractsonline.com/pp8/#/4649/presentation/5511>
- Research utilizing Data Sciences International telemetry tools are highlighted in several posters:
 - "Pharmacological activation of superior colliculus and periaqueductal gray alters physiological measures of arousal" (Saturday, November 3 from 1:00 PM -2:00 PM, (Poster #070.13/TT6)
 - "Preclinical global electroencephalography and seizure characterization in an Angelman syndrome mouse model" (Sunday, November 4 from 11:00 AM -12:00 PM, Poster #119.16/D41)
 - "The NMDAr positive allosteric modulator CAD-8688 reverses mismatch negativity impairments in the rat sub-chronic PCP model of schizophrenia" (Sunday, November 4, 2:00-3:00 PM, Poster #252.10/III28)
 - "Optimizing a mouse model of severe nerve agent intoxication for long-term survivability, incidence of neuropathology, and emergence of spontaneous recurrent seizures" (Tuesday, November 6, 4:00-5:00 PM, Poster #560.04/F1).
- A poster illustrating the use of the ECM 830 for *in vivo* delivery of CRISPR gene editing constructs to the brain will be available for review at the Physiology, Cell and Molecular Instruments (PCMI) booth #2829.

Harvard Bioscience Comprehensive Suite of Neurology Tools Featured

Innovative products from Harvard Bioscience's three commercial units—Electrophysiology (Ephys), Data Sciences International (DSI) and Physiology, Cell and Molecular Instruments (PCMI)—will be at Booths # 2813, #1920 and #2829, respectively.

Electrophysiology (Ephys) – Booth #2813

Ephys is exhibiting its new combined Smart Ephys *in vivo* wireless system, which enables the use of lightweight and reliable headstages from Triangle BioSystems (TBSI) with cutting-edge Multi Channel Systems (MCS) data acquisition and software. Additional new products include a 32-channel micro preamplifier offering a smaller, more cost-effective headstage option for recordings not requiring stimulation that wish to retain the advantages of MCS's tethered *in vivo* ME2100-System and the next generation of valve control systems from Warner Instruments with a 7" touch screen for even easier operation and control.

More information can be found here: <http://www.trianglebiosystems.com/>

Data Sciences International (DSI) – Booth #1920

DSI will be displaying new implants for neuroscience that enable the continuous collection of up to four biopotential channels (typically EEG and EMG), plus temperature and activity for use in research areas such as sleep, seizure, affective disorders, movement disorders and neurodegenerative disorders. New implants for continuous glucose measurement will also be presented that allow the collection of stress-free data, with fewer blood draws and fewer animals. The implants are now available for mice, rats and large animals. In addition, DSI will be available to discuss video-EEG for enhancing neuroscience research. Video-EEG animal models allow researchers to better understand neuronal activity as well as diagnose and develop pharmaceutical drugs. DSI offers solutions for collecting and analyzing Video-EEG data including hardwired systems, implantable telemetry, video cameras and software.

More information can be found here: <https://www.datasci.com/promotions/sfn18>

Physiology, Cell and Molecular Instruments (PCMI) – Booth #2829

BTX is showing solutions to advance all aspects of life science research from electroporation and electrofusion equipment to micro-volume spectrophotometers to the most accurate pen-sized pipettors and everything in between. New this year is the ECM 830 Mammalian Transfection System, a multifunctional square wave electroporation generator that is ideal for delivery of molecules of interest into mammalian cells and tissues with high transfection efficiencies, including difficult-to-transfect cell types such as stem cells and primary cells. It has a well-established publication record, including CRISPR gene editing technologies. The booth will also show other tools from Biochrom, Hoefer, Coulbourn Instruments, Panlab and CMA.

More information can be found here: <https://www.btxonline.com/>

About Harvard Bioscience

Harvard Bioscience is a global developer, manufacturer and marketer of a broad range of solutions to advance life science. Our products are sold to thousands of researchers in over 100 countries through our global sales organization, websites, catalogs, and through distributors including Thermo Fisher Scientific Inc., VWR, and other specialized distributors. We have sales and manufacturing operations in the United States, the United Kingdom, Germany, Sweden, Spain, France, Italy, Canada and China. For more information, please visit our website at www.harvardbioscience.com.

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