Triangle BioSystems International *Neuro News*

a division of Harvard Bioscience, Inc.

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Upcoming Events

NANS NIC 2016 Conference
Poster Presentation
"Implantable Stimulation and Recording for in-vivo Electrophysiology on Freely Moving Animals"
Baltimore, Maryland
June 25-29

FENS 2016
Booth 03
Copenhagen, Denmark
July 2-5

Greetings!

Greetings from Triangle BioSystems International! We would like to celebrate Summer by providing two opportunities to meet us and get more information about the whole range of our products for *in vivo* Electrophysiology! Our first summer conference is NANS NIC 2016 conference in Baltimore, Maryland (June 25 - 29) at which I will be presenting a poster on Implantable Stimulation and Recording for *in-vivo* Electrophysiology on June 28th. We will also be represented at the Harvard Bioscience booth 03 at the 10th Federation of Neuroscience meeting (FENS 2016) in Copenhagen, Denmark (July 2 - 5). We are always glad to meet you for more interactions and scientific discussion!

Sincerely,

James Morizio, Ph.D.
Triangle BioSystems International

New Improvements for Combo Stimulation and Recording

Interested in combining your neural recording and stimulation experiments together? Over the past year, TBSI has been helping customers integrate their wireless recording and electrical/optogenetic stimulation into one device. These systems are suitable for all animal applications from mice to primates. TBSI also understands the possibility of weight issues arising so we have worked with customers to mechanically configure devices where components are separated on a saddle harness on the animal.

A picture below demonstrates a Combo Wireless 16 Channel Recording with Bilateral 2 Channel Optogenetic Stimulation headstage.

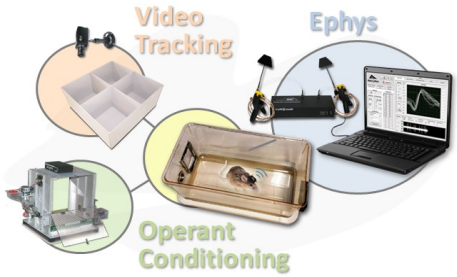
Our standard I/O connector to interface to recording electrode

technologies is positioned at the bottom of the combo headstage. In addition there are two fly wires exiting both sides of the headstage that can connect to separate optrodes postioned near or far away from the recording electrode arrays. These I/O connections will allow for complete flexibility of recording electrode and optrode placement.

TBSI Combo Recording & Stimulation systems can have up to 128 channels of recording, 16 channels of electrical stimulation, or 2 channels of optogenetic stimulation. Interested in acquiring a setup for your lab? Email sales@trianglebiosystems.com or "Request a Quote" to begin your discussion today.

New Solutions for Behavior and Ephys Integration

The acquisition of Triangle BioSystems International by Harvard Bioscience builds a new environment for integrating technologies, know-how, and resources; a synergy for creating innovative solutions for Neuroscience research.



In this context, the combination of experience from the TBSI, Panlab, and Coulbourn brands opens new possibilities for combining *in vivo* neuronal recording and stimulation with behavioral analysis, especially with video tracking and operant conditioning paradigms.

Ask for more information about our current developments and beta-testing opportunities at support@hbiosci.com.

Darpa SBIR Phase II Funding Award

TBSI has been awarded a Phase II SBIR contract to develop implantable headstages for neural stimulation and recording that can be used on rodents and non-human primates. Beta testing for these systems has started in May and initial products will be disclosed at the NANS NIC 2016 conference on June 28 in Baltimore, Maryland.

Product Review

TBSI develops neurological research equipment for brain/nerve monitoring, recording and stimulation. Our hardware and software enables the acquisition of action potential signals (spikes) from individual neurons, as well as low frequency field potential signals in wireless and miniature tethered packages. Offering state of the art miniaturized and integrated solutions for a variety of species, TBSI's stand alone software and hardware solutions are available in many configurations and are compatible with many applications.

TBSI Products

Display Your Claim to Fame

Customer Publications

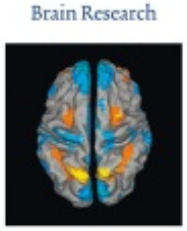
Are you publishing with TBSI products? We would love to know!

At TBSI, we want to recognize our customers' success and scientific contributions by including their publications on our website (click here). Occasionally, we will be featuring a new publication as a customer spotlight here in our newsletter.

Send your publications to papers@trianglebiosystems.com.

Two Selected New Publications: Brain Research & International Journal of Sensor Networks and Data Communications

Brain Research:
Kevin Coffee, Miles Nader, Mark O. West
Single body parts are processed by individual neurons in the mouse dorsolateral striatum. Brain Research.Volume 1636, 1 April 2016, Pages 200-207.



International Journal of Sensor Networks and Data Communications:
Ali Ajam, Ridwan Hossain, Nishat Tasnim, Luis Castanuela,et-al,
Handcrafted Microwire Regenerative Peripheral Nerve Interfaces with Wireless Neural Recording and Stimulation Capabilities, Sensor Netw Data Commun 2016, 5:1
http://dx.doi.org/10.4172/2090-4886.1000133.

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