

TBSI

a division of Harvard Bioscience, Inc.

Triangle BioSystems
International

Neuro News

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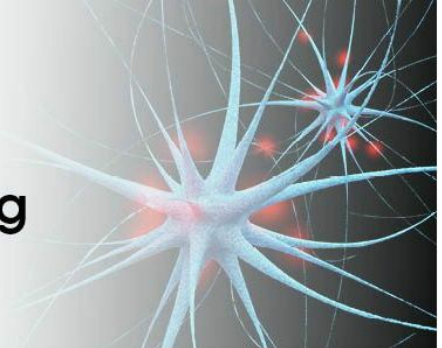
Upcoming Events

SfN 2016 Conference
Booth 2729

Poster Presentation
"Implantable Stimulation and
Recording for in-
vivo Electrophysiology on
Freely Moving Animals"
San Diego, CA
November 12-16



Implantable Headstages for Neural Recording and Stimulation



Greetings!

Greetings from Triangle BioSystems International! We would like to cordially invite you to our Implantable Neural Recording and Stimulation Webinar on November 2nd, 2016 at 9AM EST. This webinar will introduce and describe the latest *in vivo* implantable technologies that TBSI will be announcing at SfN 2016 in November.

[REGISTER FOR WEBINAR](#)

Speakers

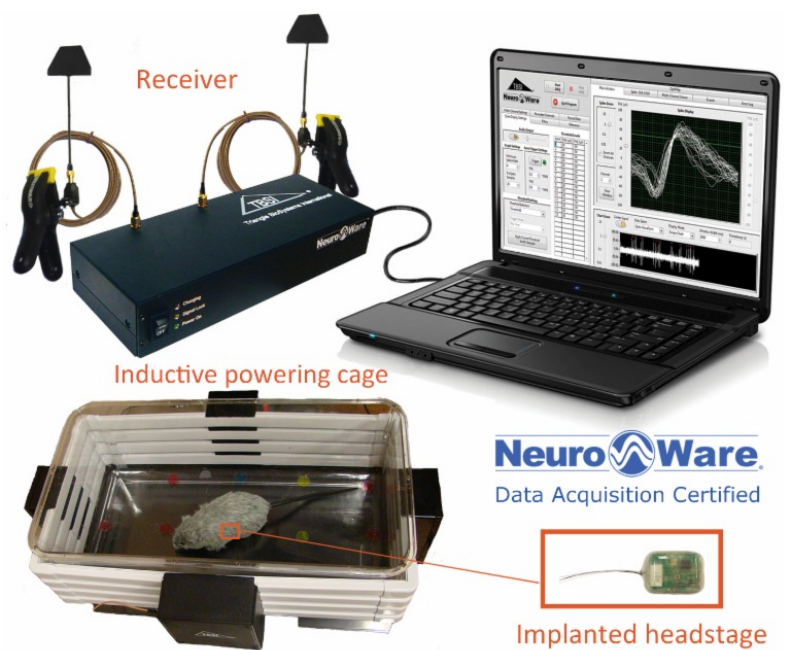
Dr. James Morizio: *Triangle BioSystems International*
 Bradley Barth: *Dept. of Biomedical Engineering - Duke University*

Sincerely,

Robby Padia
 Technical Support Specialist
 Triangle BioSystems International

Implantable Neural Recording System

An [implantable recording transmitter](#), inductively powered cage collar, receiver box, and our NeuroWare software are shown below:



The implantable recording systems are available in 5ch, 16ch and 32 channels with the following features:

- Wireless operation across 1 meter
- Voltage gain of system 800, other gain offerings available
- Bandpass filtering per channel at .8 Hz to 7 kHz
- 90-day package life
- 50 Khz per channel sampling rate
- 24/7 operation

The implantable recording headstage transmitter sizes and weights are below:



5ch Transmitter	29 x 23 x 12mm @ 5.2 grams
16ch Transmitter	29 x 23 x 12mm @ 5.2 grams
32ch Transmitter	31 x 25 x 12mm @ 5.7 grams

Implantable Neural Stimulation Systems

The [implantable neural stimulation system](#) offers both electrical and optogenetic stimulation. Both systems consist of the USB RF dongle, inductively powered cage collar, implantable headstage, and StimWare software which are shown below:



Opto Stim Ware

Pattern Generation Software

USB Dongle
Transceiver

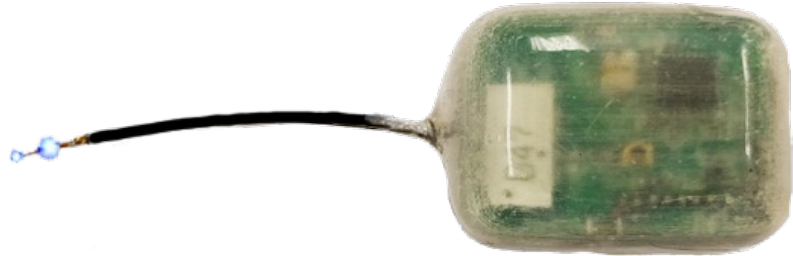


Inductive powering cage



Implanted headstage

An implantable optogenetic stimulator is shown below:



Implantable OptoStim Transmitter: 31 x 25 x 12mm @ 7.8 grams
Implantable E-Stim Transmitter: 33 x 27 x 12mm @ 8.3 grams

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.

Company Overview

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](#)

2224 Page Rd Suite 108
Durham, NC 27703
Phone: 919.361.2663
Fax: 919.544.3061

