

Webinar

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FREE WEBINAR

Photobiomodulation: Laser Therapy for the Nervous System

Join us for a Webinar on February 19, 2015

The use of "low level" light applications, termed photobiomodulation (PBM), as a noninvasive, neuro-restorative therapy for the treatment of injury and diseases of the nervous system has potential to revolutionize repair of the injured nervous system. Experiments on the use PBM to repair injured spinal cords and peripheral nerves will be discussed, along with the scientific basis for this improvement.

Our presenter, Dr. Juanita Anders, was the first to demonstrate that light applied transcutaneously penetrates to the level of the spinal cord. Transmission spectra revealed that peak transmission through all tissue layers overlying the spinal cord was at 810 nm, with minimal absorption by blood and water. Axonal regeneration and functional recovery in various models of spinal cord injury was supported by 810 nm wavelength light. Genes involved in the immune response, cellular proliferation and growth factor receptors were significantly altered by PBM after spinal cord injury.

Recent data on transcranial light penetration into human cadaver brains will be presented, along with a review of current preclinical and clinical transcranial light applications for brain injury. Peripheral nerve injury results in chronic loss of sensation and motor function. Dr. Anders' laboratory investigated the efficacy of PBM to repair peripheral nerve injury in various animal models. PBM supported statistically significant improvements in nerve regeneration and functional behavior.

These findings will be presented along with a discussion of current misconceptions concerning wavelengths and laser parameters used for PBM of the nervous system.

MARK YOUR CALENDAR

Date: Thursday, February 19, 2015
Time: 1 p.m. EST

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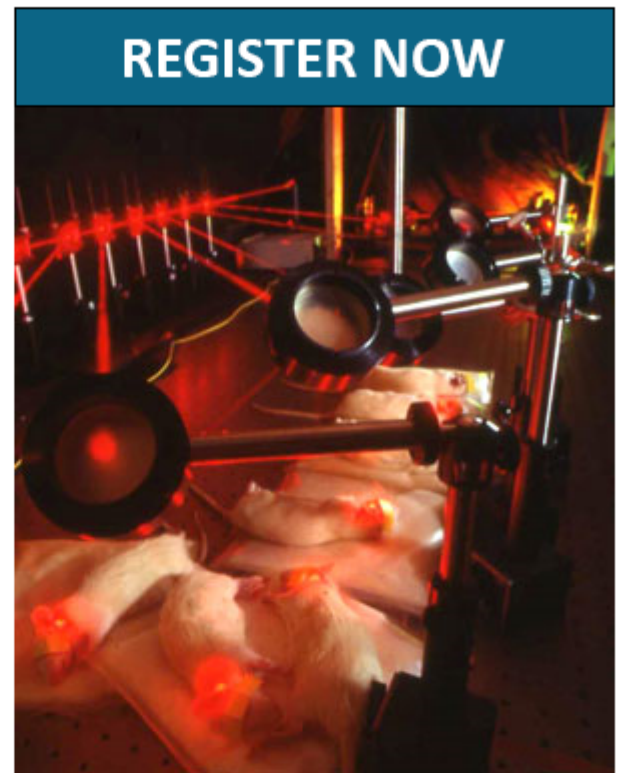
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