ELSC Seminar: Eshel Ben-Jacob

March 6, 2014

On the topic of: Chamber of Hope: Exosomes and Hyperbaric Oxygen for Brain Repair

ELSC cordially invite you

to the lecture given by:

**Eshel Ben-Jacob**
School of Physics and Astronomy
The Sagol School of Neuroscience
Tel Aviv University

On the topic of:

"Chamber of Hope: Exosomes and Hyperbaric Oxygen for Brain Repair"

The lecture will be held on Thursday, March 6, 2014
at 17:00, at ELSC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

**Abstract:**

Every year, nearly two million people in the US suffer TBI, which is the leading cause of brain damage and permanent disabilities, including motor dysfunction, psychological disorders, memory loss, and more. Current rehabilitation programs help patients but often achieve limited success. We conducted two clinical studies to show that hyperbaric oxygen therapy can significantly revive brain functions and life quality of both stroke patients and traumatic brain injury victims, even years after injury. Notably, our findings challenge the dismissive stand of the US Armed Forces, FDA, CDC and the medical community at large and offer new hope where there was none.

I will present hypotheses regarding the complex regeneration process following brain injury and the possible role of exosomes ? the innate nanotechnology system for brain repair. Being able to activate neuroplasticity, one can deduce that HBOT might also be used to reverse early stage of dementia and radically slow down the progress of Alzheimer.
It is now widely accepted that deciphering the enigma of the brain is the most challenging intellectual endeavor of the 21st century, "The Century of the Brain" - Join our quest and become a friend of ELSC.

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Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

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The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

**The Building**

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