Scientists at the Hebrew University are making similar advances in diseases as diverse as schizophrenia, depression, and Alzheimer's, and are starting to unravel the mechanisms underlying these illnesses. This complicated kind of research requires insights and research tools from across a large variety of brain science disciplines. The Center for Brain Sciences at the Hebrew University employs outstanding scientists from different disciplines, enables scientists to use the most advanced theoretical, physiological and behavioral research tools, and to cooperate easily and efficiently with each other. The collaborative scientific effort will enable researchers to make significant inroads into our understanding and treatment of neurological disorders in the foreseeable future.

**Neurological Disorders**

- **Lifespan maturation of the human brain**
  Properties of human brain tissue change across the lifespan. In a recent research, ELSC scientist model these changes in the living human brain by quantitative magnetic resonance imaging (MRI) measurements.

- **ELSC study finds key mechanism in calcium regulation**
  The finding is important element in road towards development of new drugs for neurodegenerative diseases.

- **Do the Stress Reactions of Our Brain Control the Immune System -- Or Is It the Other Way Around?**
New technologies in genetic engineering and drug development are rapidly progressing to implement this knowledge for early diagnosis and creative treatment strategies that take into consideration both the brain and the body.

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**Meta-analysis of Alzheimer’s disease gene regulation**

New analysis of gene regulation may help in detecting the early events that occur in Alzheimer’s disease.

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**Ha'aretz: Protalix's anti-nerve gas protein could help treat Parkinson's**

PRX-105, a variant of the protein acetylcholinesterase (AchE), was initially developed for several indications, including as a countermeasure to nerve gas exposure.

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**Computational Neuroscience**

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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.
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.

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