The Edmond and Lily Safra Center for Brain Sciences is one of the only places in the world where scientists from different fields work closely together in an interdisciplinary approach towards understanding the brain. Research at ELSC encompasses molecular, cellular, circuit and behavioral levels, with particular emphasis on brain theory and modeling.

Research Topics

See all Research Topics

Sensation and Perception
The Sensation & Perception research labs at the Hebrew University focus on how our brain generates a representation of the world around us, combining incoming perceptual information with memory to enable us to act. Read More

Movement Planning and Control
Scientists at the "Movement Planning and Control" laboratories focus on basic questions such as: How is visual information translated for use by the motor system? How do motor neurons learn new patterns of movement? How and where are learned movements stored in motor memory? A special avenue of research is the development of Brain Machine Interfaces, the control of artificial, robotic limbs through a brain interface. Read More

Computational Neuroscience
The field of computational neuroscience combines theoretical physics, advanced mathematics and state-of-
the art computer technology to create powerful models of working neural networks,

**Consciousness and Cognition**

Researchers at ELSC use advanced EEG and fMRI brain mapping tools to understand what happens in the brain when we become aware of something.

**Neurological Disorders**

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.

**Centers and Units**

**ELSC Neuroimaging Unit (ENU)**

**Max Planck Hebrew University Center**

New Max-Planck Center with the Hebrew University Jerusalem.

**Scientists**

**See all Investigators**

- **Prof. Hermona Soreq**
  Professor of Molecular Neuroscience
Prof. Amir Amedi  
Lab for Multisensory Research

Prof. Yair Weiss  
Human and machine vision

Prof. Yosef Grodzinsky  
Neurolinguistics Lab

Prof. Ehud Zohary  
Linking Perception, Memory and Action

Prof. Leo Joskowicz  
CASMIP Laboratory
Prof. Idan Segev
The Lab for Understanding Neurons

Prof. Yosef Yarom
Cerebellum Lab

Prof. Merav Ahissar
Perceptual Plasticity and Cognitive Abilities

Prof. Shaul Hochstein
Hochstein's web site

Positions at ELSC

Web Coordinator

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New Academic, Tenure Track Positions at ELSC

Tenure Track Positions at ELSC

Tenure Track Positions: NON-HUMAN PRIMATE RESEARCH
Tenure Track Positions at ELSC Special Call: Non-Human Primate research computational-experimental approach

Neuroscience Postdoctoral Program
ELSC invites applications for postdoctoral fellows in the following fields: Theoretical and Computational Neuroscience, Systems Neuroscience, Molecular and Cellular Mechanisms, Cognitive Neuroscience, and Neuronal Circuits.

Publications

See All Publications

- [Anonymous]. Submitted Shorter neural adaptation to sounds accounts for dyslexics' abnormal perceptual and reading dynamics.
- Shaham, N, Burak Y. Submitted Slow Diffusive Dynamics in a Chaotic Balanced Neural Network.
- Breska, A, Deouell LY. 2016 When Synchronizing to Rhythms Is Not a Good Thing: Modulations of Preparatory and Post-Target Neural Activity When Shifting Attention Away from On-Beat Times of a Distracting Rhythm.. The Journal of neuroscience : the


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.

Get into our media channel and investigate ELSC’s latest videos: seminars, public lectures, courses and video articles.