ELSC
The Edmond & Lily Safra
Center for Brain Sciences

The Jerusalem Brain Sciences Building

The most beautiful thing we can experience is the mysterious.
It is the source of all true art and science.

Albert Einstein

THE EDMOND AND LILY SAFRA CENTER FOR BRAIN SCIENCES
AT THE HEBREW UNIVERSITY OF JERUSALEM

A STATE-OF-THE-ART HOME FOR BRAIN RESEARCH

The Hebrew University of Jerusalem recently launched the Edmond and Lily Safra Center for Brain Sciences. Work is now underway to plan, raise resources for, and build a state of-the-art brain research building on the Edmond J. Safra campus in Jerusalem.

The **Jerusalem Brain Sciences Building**, which is to encompass some 10,000 square meters of laboratory, teaching and office space, will reflect an interactive, interdisciplinary approach to brain research. Open spaces, common areas, shared equipment facilities, meeting places, and electronic bulletin boards will all encourage maximum interaction and communication between faculty and students from different research groups and scientific backgrounds.

The building will house laboratories that will engage in cutting-edge research to advance our understanding of the human brain, as well as seminar rooms and lecture halls to teach the next generation of scientists. It will also serve as a vibrant venue where creative minds from within and outside of academia come together - including artists, inventors, and prominent public figures.

The building will be a home for debates on brain-related philosophical, technological and ethical issues, art exhibits that explore the potential of the human mind, and programs to educate the surrounding community. It will be a vital meeting place for scholars from across the Hebrew University and its breadth of disciplines.

The **Jerusalem Brain Sciences Building** will provide a home for The Hebrew University's vision for a new brain research agenda based upon:

- Interdisciplinary research
- Interaction between faculty and students
- Intellectual daring, innovation and creativity

The **Jerusalem Brain Sciences Building** will be open to all those who are intrigued by the mysteries of the most amazing machine in existence – the human brain.

INSIDE THE BUILDING

- An entrance lobby
- An art gallery
- A cafeteria
- An electronic/optical engineering workshop
- A modern high-performance computer facility for realistic simulations of brain processes
- A core research facility including: a brain imaging center with fMRI & EEG systems; 2-photon microscopes with laser technology; and optogenetic tools that use light to remotely activate single nerve cells in the living brain
- A large auditorium (250-person capacity) for classes, lectures, and international as well as national conferences
- Several smaller lecture halls and seminar rooms
- Laboratory space and faculty offices for some 28 research groups including: Brain Anatomy; Memory & Learning; Brain-Machine Interface (BMI); Parkinson's, Alzheimer's & other neurodegenerative diseases; Movement planning & control; Consciousness and Cognition; Language Processing; Brain Theory and Modeling; Sensory Processing; and Brain Mechanisms of Emotions
- A unique donor recognition facility depicting donor biographies as well as recent information on breakthroughs in brain research
- A brain sciences library

The building will be intellectually vibrant and visually aesthetic, a place at once state-of-the- art and humane, that will encourage open and in-depth scientific discussions on the essence of the human mind. It will be a home for Israel's finest thinkers and will provide a training ground for the next generation of renaissance brain scientists. By providing top researchers with the tools to make dramatic scientific breakthroughs, the **Jerusalem Brain Sciences Building** will play a major role in pushing forward the frontiers of neuroscience and addressing the challenges of neurological diseases.

The Hebrew University seeks far-sighted partners, committed to breaking through the barriers of our understanding of the brain, to help build a physical home for brain research. Philanthropic opportunities include naming laboratories, seminar rooms, floors, lecture halls and more.