



Smith Elkes Laboratory



Charles E. Smith Family and Prof. Joel Elkes Laboratory for Collaborative Research in Psychobiology

The laboratory provides infrastructure for multidisciplinary psychobiological research from the cellular levels to pharmacological and physiological processes of neuronal networks, through cognitive and behavioral processes.

The laboratory operates by providing space and facilities that complement existing research facilities in your home laboratories. In particular, the laboratory aims to help researchers overcome the difficulties of developing new research interests that require advanced equipment.

The extensively renovated lab includes newly purchased equipment allowing combined electrophysiological and imaging studies of single cells and tissue slices, up to the behaving rodent.

The facility includes: (1) a tissue culturing room, (2) a SPF small rodent operating room with stereotactic equipment, (3) top of the line inverted confocal microscope system (OLYMPUS FV3000-IX83) integrated with an electrophysiological rig for patch clamping and on-stage incubator for long term live imaging, (4) a patch clamp electrophysiological setup for cultured neurons or brain slices integrated with fluorescent microscopy and a multi-electrode array (MEA) recording system, (5) a behavioral monitoring setup for mice (NOLDUS ETOVISION and ROTAROD), (6) a small supporting wet lab.

How to apply for space and equipment

The laboratory is open to all qualified researchers in Israel as well as visitors from abroad and can accommodate a limited number of researchers. We encourage you to come and visit the laboratory, discuss your needs and then provide a short written explanation of the project you wish to carry out in the laboratory. Please itemize the equipment that you wish to use and the anticipated time needed to carry out the project. Limited support of materials would be considered to help carry out the work in the laboratory.

Your obligations to the laboratory are simple: besides maintaining considerate behavior in the crowded space of the laboratory, you are requested to acknowledge in all written documents and publications that, "This research was supported by the Charles E. Smith Family and Prof. Joel Elkes Laboratory for Collaborative Research in Psychobiology".

You are cordially invited to visit us and submit your requests to conduct a research project in the facility.

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