



NAME OF LABORATORY: Brain Cancer Research Lab

PI: Dr. Rachel Grossman MD

Director of Division: Prof. Zvi Ram MD

Research Objectives: Translational research

Main Research topics:

- Investigation and characterization of genetic changes in tumors that may allow prediction of outcome, as well as tailoring new targets for therapy.
- Development of new insights and technology that will improve quality of life of patients with brain cancer,
- Develop new surgical techniques to preserve the critically-important sense of human integrity and cognitive functionality among patients with brain cancer.
- Development of a novel brain tumor model based on patient derived xenograft (PDX)

Active Grants:

- **ICA:** Preserving real-life functioning during brain tumor resection via the utilization of individually tailored pre and intra operative functional mapping
- **FP7:** Microbubble driven multimodal imaging and theranostics for gliomas
- **MRA:** Nanomedicine co-targeting of neuroinflammation in melanoma brain metastasis
- Neuroscience Center Grant - **TASMC**

Collaborations:

- Department of Physiology and Pharmacology Sackler School of Medicine, Tel-Aviv University
- Department: Human Genetics Sackler School of Medicine, Tel-Aviv University
- Carlo Besta Neurological Institute, Milan, Italy
- Department of Neurosurgery, Johns Hopkins, Baltimore, USA

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