



NAME OF LABORATORY: Hematology Research Laboratory for B-cell malignancies

PI: Dr. Ben-Zion Katz PhD

Director of Department: Prof. Irit Avivi MD

Research Objectives: Malignancies of the B-cells lineage include acute and chronic leukemias, various types of lymphomas and multiple myeloma, and are the most prevalent among the hematological malignancies. The focus of the research in the laboratory is on B-cell malignancies, their developmental processes, and the clinical significance of the malignant B-cells physiological and molecular phenotypes. The objective of several projects in the laboratory is the characterization of aberrant signaling pathways in malignant B-cells, which may identify novel therapeutic targets. We utilize a wide range of both clinical and basic research laboratory techniques, and study tissue culture model systems, as well as primary patient-derived samples.

Main Research topics:

- Aberrant signaling responses in B-cell malignancies
- The physiological functions of immune-therapy target molecules
- Development of novel clinical laboratory approaches for the diagnosis and analysis of hematological malignancies
- Modulations of the coagulation system

Staff: Nili Dezurella, PhD student

Active Grants:

- The Varda and Boaz Dotan Hemato-Oncology Research Grant

Collaborations:

- Yair Herishanu, Tel-Aviv Sourasky Medical Center
- Benjamin Geiger, Weizmann Institute of Science, Rehovot
- Israel Vlodavsky, Technion School of Medicine, Haifa

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