



NAME OF LABORATORY: CANCER METABOLISM

PI: Dr. Tami Rubinek PhD

Director of Division: Prof. Ido Wolf MD

Research Objectives: Decipher endocrine and paracrine aspects of cancer development.

Main Research topics:

The Klotho gene – the hormone that links longevity to cancer protection

- Characterization of its tumor suppressor activity in breast and pancreatic cancer: from development of mice models to elucidating its effects on tumor metabolism.
- Assessing its effects in genetic models of pancreatic and breast cancer
- The role of klotho in regulation of the GH/IGF axis and association with growth and cancer
- The estrogen receptor in breast cancer
- The unique role of estrogen in cancer cell metabolism
- Elucidating mechanisms of resistance to endocrine therapies in breast cancer patients
- Development of novel strategies to hormonal therapies in breast cancer
- Revealing the genetic background of chemotherapy side effects.

Staff: Dr. Ayelet Orbach-Shabtai, Keren Marenbach-Lamin, Tammi Rubinstein, Ira Lojkin, Arkadi Hesin, Riva Shmulevich, Lotem Shpigner, Inbal Reuveni, Dr. Kenneth Hollander

Active Grants:

- Israeli Science Foundation (**ISF**)
- **Israel Cancer Association**
- **Djerassi**, Tel Aviv University

Collaborations:

- Carmela Abraham
- Boston University, Boston
- Makoto Kuro-o, Southwestern University
- Dallas
- Roni Seger, Weizmann Institute
- Tami Geiger, TAU
- Foundation One Medicine, Boston
- Zvi Laron, TAU

Contact us: Emails - idow@tlvmc.gov.il; tamaru@tlvmc.gov.il