

## Research & Services | Cancer Epigenetics (Yissum)

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### IMRIC

[Institute for Medical Research Israel-Canada](#)

### Scientific Background

The goal of epigenetics is to understand the internal switches that carry out the reprogramming process that causes cancer cells to grow in a malignant manner.

### Research Hub Goals and Activities

- Bringing together scientists and physicians working in the fields of cancer biology, cancer therapy, epigenetics and preventative medicine in order to find new approaches for understanding and conquering cancer
- Deciphering the epigenetic makeup of cancer to discover the most promising routes for treating and preventing cancer
- Encouraging funding opportunities for collaborative projects and offering new graduate courses that integrate the subjects of tumor biology with epigenetics
- Acquiring funding for common equipment such as the sophisticated microarray and sequencing instruments needed for carrying out genome-wide epigenetics analysis
- Organizing and establishing a local mouse repository for tumor models

### Existing Industry Collaborations

Tiltan Pharma, an Israeli start-up company developing an anti-angiogenic treatment for cancer

Agilent Technologies, a major life sciences company

### Hub Members and Focus

- Prof. Howard Cedar – DNA methylation and chromatin structure, major effectors in all forms of cancer
- Dr. Yuval Dor – Biology of the pancreas, diabetes and pancreatic cancer
- Prof. Yehudit Bergman – Stem cell biology; molecular biology of lymphomas and leukemias; DNA methylation
- Dr. Dina Ben-Yehuda – Clinical and molecular biology of lymphomas and leukemia
- Dr. Tamar Peretz – Clinical and molecular biology of breast cancer
- Dr. Asaf Hellman – Epigenetics of populations
- Prof. Yechiel Friedlander – Population biology of cancer
- Dr. Ittai Ben-Porath – Animal models of breast, prostate and colon cancer; epigenetics of cancer
- Prof. Eli Pikarsky – Tumor pathology; animal models of liver cancer
- Prof. Shmuel Ben-Sasson – Tumor biology

### Contact for more information:

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