Join a supportive and innovative research group engaged in fascinating fields

We are seeking graduates of Master's or Doctoral programs to join us as **doctoral or post-doctoral students,** as part of a dynamic research group actively engaged in the fascinating field of cancer treatment research.

We are looking for graduates / those close to graduating in the following disciplines:

- Life Sciences / Biology
- Biochemistry
- Biotechnology
- Pharmacy

Our research areas:

- Signal transduction in cancer
- The response to stress and chemotherapy in cancer
- Short peptides as new players in the control of protein expression
- The role of Protein kinase C (PKC) in Alzheimer's disease

Group Leader – Prof. Etta Livneh:

Prof. Livneh, who heads the research group, is engaged in the research of cellular mechanisms important for cancer development.

One of her most significant achievements was the isolation and characterization of one of the genes encoding for Protein kinase C (PKC), which is important for the sustainability and survival of cancer cells under stress, for example following DNA damage after radiation and chemotherapy treatments.

The research group that she leads investigates signaling mechanisms important in the choice of cancer cells between life and death and in their ability to escape death by changing their state to that of senescence. In a senescence state, cells do not divide but remain metabolically active and may, therefore, cause cancerous deterioration of cells in the tumors microenvironment.
The research group has recently characterized senescence in Hodgkin's Lymphoma cancer, most common among young people, a discovery that opens up new possibilities in the treatment of the disease.

Another channel resulting from the research carried out by the group is the identification of small peptides, encoded by small reading frames, preceding the main coding sequence of proteins on the messenger RNA.
This is a new paradigm, and the research group is among the pioneers in the field.
Knowledge gained from the research conducted in recent years is being applied not only in cancer research, but also in Alzheimer's disease research.