



Sackler School of Medicine, Tel Aviv University

Department of Human Molecular Genetics and Biochemistry

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Project leader



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Institute presentation

Tel Aviv University is the country's largest academic institution. Its faculty is comprised of nationally and internationally renowned scholars and scientists, many of whom are leaders in their fields. Tel Aviv University is a major center of teaching and research, comprising nine faculties, 106 departments, and 90 research institutes. Tel Aviv University is the largest comprehensive research university in Israel and participated in 50 projects in FP5, 75 projects in FP6, and 78 projects in FP7.

The Sackler School of Medicine is Israel's largest institute of higher medical education, including approximately 1000 teachers in preclinical departments and in affiliated clinical departments and institutes, located in seven major medical centers, six psychiatric hospitals, and a large rehabilitation center

Prof. Shimon Efrat is the Nancy Gluck Regan Chair in Juvenile Diabetes at the Sackler School of Medicine. His research during the past 23 years, first at Albert Einstein College of Medicine in

New York, and then at Tel Aviv University, has focused on understanding the regulation of pancreatic beta-cell replication and differentiation, with the goal of developing a cell replacement therapy for diabetes. In the past 3 years he has collaborated with Prof. Nissim Benvenisty at the Hebrew University in Jerusalem in generation of iPS cells from human beta cells and their characterization.

Relevant expertise: Beta-cell expansion; nuclear reprogramming; epigenetic memory; iPS cells; differentiation of pluripotent stem cells into insulin-producing cells; cell transplantation into hyperglycemic mice.