

High Content Screening Facility (Ramot)

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The Facility has an In Cell Analyzer 2000 (INCA 2000, GE healthcare), the first in Israel, which is a high throughput high content image screening analyzer capable of automatically acquiring multiple fluorescence-labeled images from live or fixed cells cultured in multi titter-well plates. We offer the possibility to analyze a wide range of cellular types together with intracellular biological markers baring different fluorescent labels. The image data analysis is performed in batches, using specialized software that quantifies the multi-parametric information at the cellular and sub-cellular levels allowing graphical visualization, characterization and analysis.

Assays:

Cell count, cell cycle, cell migration, vesicular labeling, cytotoxicity, DNA repair, cell adhesion, cell proliferation, apoptosis, gene expression reporter systems, neurite outgrowth, etc.

Technical features of INCA 2000 include:

- Environmental control
- Liquid handling
- Transmitted and fluorescence light imaging
- Temperature Control
- Plates or slide imaging

In addition, the lab is equipped with:

- **Cell and tissue culturing facilities**
 - Human primary cells, human embryonic and adult stem cell cultures and various differentiation protocols.
 - Custom assay preparation
- **Drug HT screening facility (not yet available)**
 - Compound Libraries
 - Liquid handling robot integrated with INCA 2000

Contact

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