

## **Prof. Dalit Ben Yosef PhD**

**Prof. Dalit Ben-Yosef** is the Director of the IVF lab and the Wolfe PGD-Stem Cell Lab in Tel-Aviv Sourasky Medical Center. In addition she is a Full Professor in the Department of Cell and Developmental Biology, Sackler Medical School, and Sagol School of Neuroscience in Tel-Aviv University. Her stem research cell lab focuses on studying the mechanism of different genetic diseases using their unique collection of human embryonic stem cell lines.

Her lab is now focusing on -

- 1) Studying molecular and functional deficiencies in neuronal networks derived from Fragile X Syndrome hESCs to explore the development of mental retardation.
- 2) Studying malignant transformation and the development of cancer using APC-mutated hESCs.
- 3) The cellular phenotype and the genetic stability of naïve and primed human embryonic stem cells.
- 4) Enhancing Assisted Reproductive Technologies with deep learning and data visualization.
- 5) Advanced RNA sequencing technologies for generating a comprehensive isoform-resolved transcriptome of the human preimplantation embryo.