

Yaniv Lab

Bioenergetic and Bioelectric Systems Lab

M.Sc. Student Position (with an option to fast-track to a Ph.D.)

Interested in learning how heart cells generate a normal rhythm, and why these mechanisms malfunction to cause arrhythmias?

Join innovative research combining human stem cells, organoids, and advanced measurement technologies.

The research focuses on the cellular and metabolic mechanisms that enable normal heart function and the processes leading to the development of arrhythmias.

The research integrates a variety of advanced technologies, including:

- Working with hiPSC-derived cardiomyocytes cell cultures
- Advanced microscopy to evaluate bioenergetic activity and heart cell function
- Working with Multi-Electrode Array (MEA) systems to record the electrical activity of cells and organoids
- Investigating cellular and electrical mechanisms involved in heart rhythm generation and arrhythmias
- Opportunity to work with primary human tissue

We are looking for a curious and motivated candidate interested in joining a multidisciplinary research environment combining biology, physiology, engineering, and advanced imaging and recording technologies. An advantage will be given to students with a background in one or more of the following fields:

- Biomedical Engineering
- Biotechnology

For details and application, contact yaely@bm.technion.ac.il

