



## **NAME OF LABORATORY:** Cardiology Research

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**PI:** Prof. Gad Keren MD, PhD and Dr. Michal Entin-Meer PhD

**Director Department:** Prof. Gad Keren MD, PhD

### **Research Objectives:**

We set up small animal models for cardiac diseases, including: acute myocardial infarction, cardiac volume overload (a prominent pathology in valvular diseases and chronic heart failure) and cardio-renal syndrome. Using various molecular and cellular techniques, we have been trying to identify novel therapeutic targets for attenuating disease progression and to improve the clinical presentation of these devastating conditions.

### **Main Research Topics:**

- The potential involvement of the cation channel TRPV2, which is highly abundant on peri-infarct immune cells, in the recovery processes following an acute myocardial infarction.
- Elucidating the therapeutic potential of anti-metalloproteinase antibodies as well as reagents holding anti-histone deacetylase activity for the treatment of cardiac volume overload.
- Cardiac mitochondria as a promising target for attenuation of cardiac dysfunction and progression to cardiorenal syndrome in patients with chronic kidney disease.

**Staff:** Michal Entin-Meer, PhD- Lab manager & senior researcher, Jeremy Ben Shoshan, MD, PhD- Senior researcher, Einat Bigelman- PhD student, Lena Cohen, PhD student

### **Active Grants:**

- Israeli Ministry of Science- Elderly medicine
- Israel Science Foundation

### **Collaborations:**

- Prof. Irit Sagi- Weizmann Institute, Rehovot
- Dr. Ada Rephali- Felsenstein Institute, Belinson campus, Petach Tikwa
- Dr. Ann Saada- Hadassah Hospital, Jerusalem

### **Contact us:**

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