

**Izhak Kehat**

Dr. Izhak Kehat is a physician-scientist with expertise in cardiac molecular system biology and cardiology. He earned his MD and PhD from the Technion – Israel Institute of Technology, where he pioneered the derivation of cardiomyocytes from human embryonic stem cells. His postdoctoral research with Dr. Jeffery Molkentin in Cincinnati focused on gene expression in cardiac hypertrophy, and on the role of ERK signaling in concentric and eccentric hypertrophy.

After returning to Israel, Dr. Kehat completed his residency in Internal Medicine and a Cardiology fellowship at Rambam Medical Center, specializing in echocardiography under Professor Agmon. Since 2012, he has served as a principal investigator at the Technion and a senior cardiologist at Rambam. Since 2018 Dr. Kehat is an associate professor and the head of the Dept. of Physiology, biophysics, and system biology, at Faculty of Medicine, Technion – Israel Institute of Technology, and a senior cardiologist at the Rambam Medical center echocardiography unit.

His lab discovered that sarcomeric maintenance relies on nano-scale 'factories' that localize mRNA, produce proteins, and remove excess components—offering new insights into cardiac function and potential therapies.