Dr. Moran Yadid received her BSc. And PhD degrees from the Faculty of Biomedical engineering at the Technion. Then she continued her postdoctoral training at Harvard School of Engineering and Applied Sciences. Moran returned to Israel and held a research associate position at the Shmunis School of Biomedicine at Tel Aviv University, at the Dvir lab for regenerative medicine. Moran has recently joined the Azrieli Faculty of Medicine at Bar Ilan University as a principal investigator of the Regenerative BioEngineering lab (www.yadidlab.com).

Moran's work is interdisciplinary, involving engineering and biology. In her PhD studies, Moran's research focused on cardiac muscle physiology and understanding the roles of mechanical loading in regulating the myocardial contractile forces. During her postdoctoral research Moran developed Heart-on-Chip devices using human stem cells derived-cardiomyocytes and employing tissue engineering techniques. These models mimic the basic structure and function of the human heart and facilitate measurements of contractile function using various sensors embedded in the engineered tissues. The Heart-on-Chip can serve as human-relevant, patient specific, preclinical models to study cardiotoxicity, responses to different drugs, and physiology in healthy and disease conditions. Using this platform Moran studied extracellular vesicles-mediated vessel-tissue interactions during metabolic stress conditions (ischemia - prolonged lack of oxygen).

Moran's future work will be in the field of regenerative medicine, muscular tissue engineering, and studying organ-organ interactions in health and disease using human in vitro tissue models. Moran is now starting her lab and recruiting excellent PhD students from various disciplines including biology, medicine, and engineering.