# The Annual Meeting of the ISHR

**Venue: The Yellow Hall – Faculty of Medicine, Technion, Haifa, Israel**
**Thursday, December 10, 2015**

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| **0830-0900** | | **Coffee and Exhibition** |
| **0900-0910** | | **Michal Horowitz –in Memory of Prof. Rena Yarom** |
| **0910-1040** | | **SESSION 1 – RENA YAROM YOUNG INVESTIGATOR COMPETITION**<br>**Chair:** M. Arad, O. Binah, M. Horowitz |
| 0910-0925 | **La-Paz Levin-Kotler** | The longevity gene sirtuin 6 switches macrophages into an anti-inflammatory phenotype and improves cardiac function after myocardial infarction in mice |
| 0925-0940 | **Alon Abend** | Cytoplasmic histone deacetylase 4 promotes vascular calcification |
| 0940-0955 | **Idit Goldfracht** | Development of novel human engineered heart tissue models using human ipscs-derived cardiomyocytes, cardiac-specific extracellular matrix, and genetically-encoded functional reporters |
| 0955-1010 | **Yakov Tsibulsky** | Non-invasive monitoring of patients with heart failure by objective indices of dyspnea |
| 1010-1025 | **Shira Landau** | Forces and regulation of vascular network |
| 1025-1040 | **Joachim Behar** | The regulation of the heart beat by the crosstalk between brain signaling receptor stimulation and pacemaker cell internal mechanisms |
| **1040-1110** | | **Coffee break, posters, exhibition** |
| **1110-1115** | | **Jonathan Leor - Opening Remarks** |
| **1115-1125** | | **Michael Arad – The PCSK9 story: from bench to clinical reality** |
| **1130-1245** | | **SESSION 2**<br>**Chairmen:** J. Orly, TBA |
| 1130-1145 | **Olga Tsoref** | Novel e-selectin binding polymers reduce atherosclerotic lesions in apoe$^{(-/-)}$ mice. |
| 1145-1200 | **Ronen Ben Jehuda** | Investigating inherited hcm caused by sco2 and prkag2 mutations using the patients' induced pluripotent stem cell-derived cardiomyocytes |
| 1200-1215 | **Natali Molotski** | Direct reprogramming of fibroblasts in a failing heart improves cardiac function |
| 1215-1230 | **Michael Mutlak** | Transient gene delivery of oncogenes induces cardiomyocyte proliferation |
| 1230-1245 | **Naim Shaheen** | Optical mapping of hipsc-derived cardiac myocytes monolayers expressing genetically-encoded voltage indicators |
| 1245-1300 | **Maayan Waldman** | Caloric restriction attenuates diabetic cardiomyopathy |
| **1300-1330** | | **Lunch, posters, exhibition** |
| **1330-1500** | | **SESSION 3**<br>**Chairmen:** A. Landesberg, T. Dvir |
| 1330-1345 | **Revital schick** | Investigating the cellular and molecular mechanisms of dilated cardiomyopathy in patients' induced pluripotent stem cell-derived cardiomyocytes |
| 1345-1400 | **Yulia Shandalov** | Engineering of vascularized flap for reconstruction of full-thickness abdominal wall defect |
| 1400-1415 | **Rami Shinnawi** | Modelling of the short qt syndrome using human induced pluripotent stem cells |
| 1415-1430 | **Yael Efraim** | Injectable cardiac extracellular matrix –based gel as a cell platform for cardiac regeneration. |
| 1430-1445 | **Vadim Nudelman** | Opposite effect of histone deacetylase inhibition in hypoxic cardiomyocytes and cardiofibroblasts |
| 1445-1500 | **Ron Feiner** | Engineered hybrid cardiac patches with multifunctional electronics for on-line monitoring and regulation of tissue function |
| **1500-1510** | | **Announcement of the winners: Rene Yarom competition and Posters** |
| **1510-1530** | | **Annual meeting of the ISHR** |

ISHR
International Society for Heart Research

| | Poster Session | Poster no |
|---|---|---|
| **Alla Aharonov** | Erbb2-triggered mammalian cardiac regeneration | P101 |
| **Wesam Mulla** | Atrial remodeling in conscious freely moving rats exposed to sustained atrial tachypacing | P102 |
| **Ahmad Mreisat** | Remodeling of mitochondria by hif1-alpha after heat acclimation | P103 |
| **Smadar Arvatz** | Fabrication of a vascularized cardiac patch from omentum ecm-based hydrogel | P107 |
| **Wesam Mulla** | Electromechanical effects of ventricular pacing in the rat myocardium | P109 |
| **Emad Muhammad** | Plekhm2 mutation leads to abnormal localization of lysosomes, impaired autophagy flux and associates with recessive dilated cardiomyopathy and left ventricular non-compaction | P116 |
| **Dor Yadin** | Gene therapy prevents catecholaminergic polymorphic ventricular tachycardia (cpvt2) in mice | P117 |
| **Avihai Spizzichino** | Development and execute experiments for determination of the parameters in constitutive models of myocardium | P118 |
| **Sharon Fleischer** | Non-invasive monitoring of patients with heart failure by objective indices of dyspnea | P120 |
| **Daria Amiad pavlov** | Matching function to demands: identifying the intracellular control mechanisms of the adaptive and synchronous cardiac function | P121 |
| **Maskit Gvirtz Markish** | Cardiac tissue engineering: **e**x vivo construction of full thickness seeded porcine ecm scaffolds by means of perfusion bioreactor, electrical stimulation, and mechanical stretching. | P122 |
| **Osnat Cohen-Rosenboim** | E-selectin inhibition impairs cardiac function after myocardial infarction | P123 |
| **Amit Livneh** | Extracorporeal acute cardiac pacing by high intensity focused ultrasound: insights from modeling pacing of a small animal left ventricle cardiomyocyte | P125 |
| **Talya Razin** | Differentiation characteristics of cardiac rat fibroblasts examined ex-vivo in primary cultures: pro- and anti-apoptosis responses depend on tgfβ1 | P126 |
| **Dekel Rosenfeld** | Tensile forces regulate the formation and orientation of 3d vascular networks. | P128 |
| **Eli Anuka** | Healing a failing heart: a novel anti-apoptotic mechanism of a normally steroidogenic protein, star, expressed in tissue repairing cardiac fibroblasts | P129 |
| **Yfat Yahalom-Ronen** | Reduced matrix rigidity promotes neonatal cardiomyocyte dedifferentiation, proliferation and clonal expansion | P130 |
| **Avinoam Bar-Zion** | Towards sub-nyquist tissue doppler imaging | P132 |
| **Katya Kovalev** | Immunogenicity of cardiomyocytes derived from induced pluripotent stem cells | P139 |
| **Shiraz Haron-Khun** | Sk4 channel blockers improve catecholaminergic polymorphic ventricular tachychardia phenotypes in human ips derived cardiomyocytes | P140 |

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