

<b>3D3C: Towards a new vista of in-vitro 3-dimensional organization and cell to cell communication</b>	
<i>Time table</i>	
<b>March 3 2020</b>	
17:00 – 19:30	<b>Meeting Registration</b>
20:30 – 21:45	<b>Welcome Reception</b>
<b>March 4, 2020</b>	
08:00 – 09:00	<b>Meeting registration &amp; Poster setup</b>
09:00 – 09:10	<b>Welcome and opening remarks</b> <i>Tiziana Brevini, Amos Tandler, Yael Heifetz</i> (Mandel Auditorium)
	<b><i>Epigenetic control governed by external or environmental factors - challenges in tissue engineering</i></b> <i>Moderators: Tiziana Brevini, Sharon Schlesinger, Nicolas Ortega</i>
09:10 – 09:40	<b>Moshe Szyf</b> , McGill University, Canada Epigenetic processes mediating between environment, exposures and phenotypes; implications for 3D3C; could we mimic the “natural epigenome” in vitro
09:40-10:10	<b>Shoseyov Oded</b> , The Hebrew University, Israel Plant produced human recombinant collagen a scaffold for regenerative medicine
10:10-10:40	<b>Priscila Ramos</b> , INIA Madrid, Spain A single-cell transcriptional atlas of pig embryogenesis; toward a new system to extend the window of embryo development in vitro
10:40-10:50	<b>Miranda Joana P</b> , University of Lisbon, Portugal Towards liver-on-a-chip: the role of hepatocyte-like cells in a physiologically relevant model
10:50-11:00	<b>Winblad Nerges</b> , Karolinska Institute, Sweden Beta-2-microglobulin and Class II Major Histocompatibility Complex Transactivator deficient human embryonic stem cells can be differentiated into retinal pigment Epithelium
11:00-11:10	<b>Pušić Maja</b> , University of Zagreb, Croatia In vitro cultivation of cartilage grafts using nasal chondrocytes and 3D chitosan scaffolds
<b>11:10–11:40</b>	<b>Coffee/Tea Break &amp; Poster Presentation</b>
	<b><i>Cell-cell communication and microenvironmental homeostasis of cells, organs, and intact systems</i></b> <i>Moderators: Yael Heifetz, Dimitrios Rizos, Tamara Kukolj</i>
11:40-12:10	<b>Neta Regev-Rudzki</b> , Weizmann Institute, Israel 20S proteasomes exported by malaria parasite promote its growth
12:10-12:40	<b>Assaf Zaritsky</b> , Ben-Gurion University, Israel Defining the building blocks of collective cell behaviour
12:40-13:10	<b>Angel Raya</b> , Bellvitge Biomedical Research Institute, Spain Eliciting tissue-like behaviour on human cardiac constructs
13:10 – 14:45	<b>Lunch &amp; Poster Presentation</b>

	<i>Cell environment and Chemobiological cues</i> <i>Moderators: Bart Gadella, Anne Navarrete-Santos, Amos Tandler, Yoav Soen, Milda Alksne</i>
14:45 – 15:15	<b>Sabeth Verpoorte</b> , University of Groningen, NL Leveraging microfluidics to enhance in vitro experimentation with cells and tissue
15:15 – 15:25	<b>Rohrer Jack</b> , Zurich University of Applied Sciences, Switzerland Reporter constructs in primary human cells to generate in vitro model systems
15:25-15:35	<b>Ortega Nicolás M</b> , Karolinska Institutet, Sweden Elucidating lineage segregation on bovine preimplantation embryos
15:35-15:45	<b>Šimoliūnas Egidijus</b> , Vilnius University, Lithuania The Role of MAP Kinases in Human GMSCs in Response to Different Degrees of Matrix Stiffness
15:45-15:55	<b>Alexandrova Radostina</b> , Bulgarian Academy of Sciences, Bulgaria Evaluation of cytotoxic / antitumor properties of new metal complexes with different ligands in 2D and 3D cell cultures
15:55-16:05	<b>Duda Malgorzata</b> , Jagiellonian University, Poland Potential relationship between differentiation of PSCs into vascular endothelial cells, their malignant transformation and exposure to endocrine disrupting compounds
16:05- 17:00	<b>Coffee/Tea Break &amp; Poster Presentation</b>
17:00-17:30	<b>Nicola Elvassore</b> , University of Padova, Italy Confinement environment and extracellular matrix proteins enable endodermal organoid culture
17:30-17:40	<b>Žegura Bojana</b> , National Institute of Biology, Slovenia Hepatic in vitro 3D cell model developed from HepG2 cells for the assessment of genotoxic activity of environmental pollutants
17:40-17:50	<b>Krysiak Zuzanna Joanna</b> , AGH University of Science and Technology, Poland Electrospun polyvinyl butyral-co-vinyl alcohol-co-vinyl acetate (PVB) patches for atopic skin treatment - cytotoxicity tests
<b>17:50-18:20</b>	<b>Discussion</b> <i>Moderators: Tiziana Brevini, Sharon Schlesinger, Yael Heifetz, Dimitrios Rizos, Bart Gadella, Anne Navarrete-Santos, Amos Tandler, Yoav Soen</i>
<b>19:00 –</b>	<b>Gala dinner – Jerusalem</b> Sound and Light Show at the Citadel - Tower of David
<b>March 5, 2020</b>	
	<b><i>Old challenges and new opportunities in engineering and analyzing complex 3D functional tissues</i></b> <i>Moderator: Moshe Szyf, Angel Raya</i>
09:05-09:40	<b>Shulamit Levenberg</b> , Technion, Israel Engineering 3D vascularized tissue constructs
09:40-10:10	<b>Assaf Bar</b> , Ben-Gurion University, Israel Live imaging flow bioreactor for elucidating the mechanism behind regeneration of articular cartilage after treatment with bioactive hydrogel

	<i>Emerging live cell imaging technologies: cell biology models, microscopy techniques, and bioimage analysis</i> <i>Moderators: Yuval Garini, Javier, A. Sanchez-Lopez</i>
10:15-10:40	<b>Natan T. Shaked</b> , Tel-Aviv University, Israel Rapid, label-free, high-resolution three-dimensional imaging of cells
10:40-10:55	<b>Ori Avinoam</b> , Weizmann Institute, Israel Membrane sequestration and crumpling maintain membrane homeostasis during exocrine secretion
<b>10:55- 11:25</b>	<b>Coffee/Tea break</b>
11:25-11:50	<b>Yoav Shechtman</b> , Technion, Israel Volumetric and high-throughput localization microscopy via wavefront shaping and deep learning
11:50-12:15	<b>Yuval Garini</b> , Bar-Ilan University, Israel Studying the dynamics of molecules in live cells
12:15-12:25	<b>Newman, Abigail</b> , Technion, Israel 3D Bioprinted Pancreatic Endocrine Tissue
<b>12:25 – 14:10</b>	<b>Lunch &amp; Poster presentation</b>
	<i>Microfluidics – from basic concepts to organ-on-a-chip</i> <i>Moderators: Ofra Benny, Shay Tal</i>
14:10 -14:40	<b>Yaakov Nahmias</b> , The Hebrew University, Israel Illuminating human function: development of a smart micro-physiological bioanalyzer
14:40 – 15:05	<b>Nissan Yissachar</b> , Bar-Ilan University, Israel Thinking outside the mouse: ex-vivo dissections of host-microbiome cross talks
15:05 – 15:30	<b>Yoav Soen</b> , Weizmann Institute, Israel Promoting desired biological functionality in live bioreactors
15:30 - 15:55	<b>Arbel Artzy-Schnirman</b> , Technion, Israel Lung-on-chip platforms: narrowing the gap between in vitro models to in vivo
<b>15:55-16:25</b>	<b>Coffee/Tea break</b>
16:25-16:50	<b>Ben M. Maoz</b> , Tel-Aviv University, Israel Organs-on-a-chip: A new tool for the study of human physiology
16:50 – 17:15	<b>Amir Bitan</b> , National Center for Mariculture, Israel Fish-AI- developing an artificial intestine for the sustainable farming of healthy fish
17:15 – 17:45	<b>Discussion</b> <i>Moderators: Moshe Szyf, Yuval Garini, Javier, A. Sanchez-Lopez, Ofra Benny, Shay Tal</i>
<b>19:00 –</b>	<b>Dinner &amp; Social event</b>
<b>Day 4 – March 6, 2020</b>	
06:30 –	<b>Excursion - Jerusalem</b>