

**10/9/22**

| Time  | Talk Title   | Speaker   |
|---|--|---|
| 11:30-12:00   | <b>Registration, Reception &amp; Exhibition</b>  |   |
| 12:00-12:10   | <b>Welcome &amp; Introduction</b>  | <i>Shulamit Levenberg, Dina Safina</i>                    |
| <b>Session 1   Chair: Ben Maoz, Tel Aviv University</b> |  |   |
| 12:10-12:50   | New bioinks and biofabrication methods to enable personalized tissue mimics  | <i>Sarah Heilshorn, Stanford</i>                          |
| 12:50-13:20   | Advanced micromaterials and modular bio-inks for multiscale tissue engineering   | <i>Jeroen Leijten</i>                                     |
| 13:20-13:40   | 3D-bioprinted cancer models for target discovery, personalized medicine, and drug development  | <i>Ronit Satchi-Fainaro, Tel Aviv University</i>          |
| 13:40-14:00   | Investigation of biosynthetic and biomimetic strategies to promote nutrient supply in 3D-bioprinted tissue precursors                                      | <i>Andreas Blaeser, Technical University of Darmstadt</i> |
| 14:00-14:20   | Transforming protein solution into fibers using electrostatic complexation   | <i>Eyal Zussman, Technion</i>                             |
| 14:20-15:10   | <b>Coffee break &amp; Exhibition</b>   |   |
| <b>Session 2   Chair: Shulamit Levenberg, Technion</b>  |  |   |
| 15:10-15:40   | Light-based vat-polymerization 3D bioprinting for tissue fabrication   | <i>Yu Shrike Zhang, Harvard</i>                           |
| 15:40-16:10   | Light-driven biofabrication and organoid technology to engineer volumetric living tissues  | <i>Riccardo Levato, University Medical Center Utrecht</i> |
| 16:10-16:30   | Establishment of advanced 3D human cardiac tissue models for disease modeling, drug development, and regenerative medicine                                 | <i>Lior Gepstein, Technion</i>                            |
| 16:30-17:15   | From the discovery of the first angiogenesis inhibitors to the development of controlled drug delivery systems and the foundation of regenerative medicine | <i>Robert Langer, MIT</i>                                 |
| 17:15-20:00   | <b>Social activity - Cable car, walk and picnic on mount Carmel</b>  |   |
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**11/9/22**

| Time   | Talk Title   | Speaker  |
|--|--|--|
| 8:30-9:00  | <b>Registration, Reception &amp; Exhibition</b>  |  |
| <b>Session 3   Chair: Luai Khoury, Technion</b>  |  |  |
| 9:00-9:40  | Engineering Organoids  | <i>Matthias Lutolf, École Polytechnique Fédérale de Lausanne</i>     |
| 9:40-10:20   | Biofabrication of organs-on-a-chip   | <i>Milica Radisic, University of Toronto</i>                         |
| 10:20-10:40  | Engineering personalized tissue implants: from 3D printing to bionic organs  | <i>Tal Dvir, Tel Aviv University</i>                                 |
| 10:40-10:50  | 3D printing of personalized catheters with smart coating for improved functionality, biocompatibility and anti-bacterial characteristics | <i>Shady Farah, Technion</i>   |
| 10:50-11:20  | <b>Coffee break &amp; Exhibition</b>   |  |
| <b>Session 4   Chair: Ulyana Shimanovich, Weizmann Institute</b>                         |  |  |
| 11:20-12:00  | Engineering Immuno-Mechanics to Guide Tissue Regeneration  | <i>Georg Duda, Charité University hospital</i>                       |
| 12:00-12:30  | Precision biofabrication of tissues and tumor models with single-cell resolution, nanostructural mimicry, and microgeometric control     | <i>Luiz Eduardo Bertassoni, Oregon Health and Science University</i> |
| 12:30-13:00  | The plant age; Materials for the future  | <i>Oded Shosseyov, Hebrew University</i>                             |
| 13:00-13:15  | Using diffusion packing for the self-assembly of 3D printed iPSC tissue fibers   | <i>Vasileios Trikalitis, University Of Twente</i>                    |
| 13:15-14:15  | <b>Lunch &amp; Exhibition</b>  |  |
| <b>Session 5   Chair: Shady Farah, Technion</b>  |  |  |
| 14:15-15:45  | Flash talks  |  |
| 15:45-16:15  | <b>Coffee break &amp; Exhibition</b>   |  |
| <b>Session 6 - Industry Session   Chair: Dana Gourevich, Israel Innovation Authority</b> |  |  |
| 16:15-16:30  | The Bio-Convergence Revolution   | <i>Dana Gourevich, Israel Innovation Authority</i>                   |
| 16:30-16:45  | 3D Printing – From science to the clinic   | <i>Aryeh Batt, Precise Bio</i>                                       |
| 16:45-17:00  | rhCollagen as the Ideal Building Block for Biofabrication of Tissues and Organs  | <i>Yehiel Tal, Collplant</i>   |
| 17:00-17:15  | New fibrillar collagen bioinks as bioprinting material for cardiac Tissue Engineering  | <i>Teresa Zúñiga, Viscofan</i>                                       |
| 17:15-17:30  | Foam of Life: stimulating tissues to regenerate and repair with a 3D foam structure  | <i>Ishay Attar, Biochange</i>  |

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| 17:30-17:45  | The next step to the 3D bioprinting, BMAP, Bioreactors That Mimic The Anatomy and Physiology   | <i>Manuel Figueruela Garcia, Regemat 3D</i>                   |
| 17:45-18:00  | Multi-material DLP bioprinting & recombinant human collagen bioinks enabling complex vascularized tissues and organs   | <i>Joachim von Arnim, Cellbricks</i>                          |
| <b>18:00-20:30</b>   | <b>Poster session, light dinner &amp; wine</b>   |   |
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| <b>12/9/22</b>   |  |   |
| <b>Time</b>  | <b>Talk Title</b>  | <b>Speaker</b>  |
| <b>8:30-9:00</b>   | <b>Registration, Reception &amp; Exhibition</b>  |   |
| <b>Session 7   Chair: Ayelet Lesman, Tel-Aviv University</b> |  |   |
| 9:00-9:40  | Fresh 3D Bioprinting of heart tissue and the path towards translation  | <i>Adam Feinberg, Carnegie Mellon University</i>              |
| 9:40-10:10   | Microfluidic-enhanced 3D bioprinting   | <i>Wojciech Swieszkowski, Warsaw University of Technology</i> |
| 10:10-10:30  | Methacrylated Fibrinogen IPN hydrogels with rapid gelation, structural stability and controlled mechanical properties: applications in bioprinting of skeletal muscle fibers | <i>Dror Seliktar, Technion</i>                                |
| 10:30-10:50  | Hybrid bioinks as an approach to improve real 3D printability and printing fidelity  | <i>Robert Luxenhofer, University of Helsinki</i>              |
| <b>10:50-11:20</b>   | <b>Coffee break &amp; Exhibition</b>   |   |
| <b>Session 8   Chair: Josué Sznitman, Technion</b>           |  |   |
| 11:20-12:00  | Advances in lithography-based 3D printing of hydrogels   | <i>Jason Burdik, University of Colorado</i>                   |
| 12:00-12:30  | Tessellated tissue scaffolds based on 3D jet writing   | <i>Joerg Lahan, University of Michigan</i>                    |
| 12:30-13:00  | Scaling up organoid culture for towards organ-scale biofabrication   | <i>Mark Skylar-Scott, Stanford</i>                            |
| 13:00-13:20  | Printing emulsion-templated polymers: Versatility, hierarchy, degradability  | <i>Michael Silverstein, Technion</i>                          |
| <b>13:20-14:10</b>   | <b>Light lunch &amp; Exhibition</b>  |   |
| <b>Session 9   Chair: Yaakov Nahmias, Hebrew University</b>  |  |   |
| 14:10-14:50  | Regenerative Medicine: Current Concepts and Changing Trends  | <i>Anthony Atala, Wake Forest University</i>                  |
| 14:50-15:20  | Development of biomimetic models of intestinal tissue: guiding cellular self-organization through biofabrication techniques  | <i>Elena Martinez, Barcelona University</i>                   |
| 15:20-15:50  | Fabrication of Anatomically-Scaled Microvasculature for Regeneration and Disease Modeling  | <i>Ying Zheng, University of Washington</i>                   |
| 15:50-16:10  | Bioprinting vascularized tissue flaps  | <i>Shulamit Levenberg, Technion</i>                           |
| 16:10-16:15  | <b>Poster Awards Announcement &amp; Closing Remarks</b>  | <i>Shulamit Levenberg, Dina Safina</i>                        |