Tokushima International Science Institute

Public announcement of Collaborative Research, Phase 2

2025.05.15

Research Theme	Engineering an implantable vessel shunt with a hierarchical vessel network to support adipose tissue transplantation		
Research Period	Jan. 1, 2023 - Dec. 31, 2024		
Researcher Information	Technion		**Shulamit Levenberg** Professor Faculty of Biomedical Engineering
	Tokushima Univ.		**Ichiro Hashimoto** Professor Graduate School of Biomedical Sciences, Medical Science
Publication List (Published Papers, conference, presentations, etc)	・Poster presentation at the international conference “Advances in 3D bioprinting” which took place at the Technion on September 10-12th 2023. Poster title: “3D bioprinting of muscle flaps for clinical application” ・Keynote speaker at 3D medical innovation conference that took place at Sheba hospital on November 14th 2024. Lecture title – “Bioprinting vascularized muscle flaps”. ・Anna Tsukerman, Majd Machour, Margarita Shuhmaher, Eliana O. Fischer, Hagit Shoyhet, Orit Bar-Am, Gali Guterman Ram, Lior Debbi, Dina Safina, Shulamit Levenberg. Placenta-Derived Mesenchymal Stromal-Like Cells Promote 3D-Engineered Muscle Tissue Differentiation and Vessel Network Maturation. *Small Sci*. 2024;2400228. doi:10.1002/smsc.202400228 ・Eliana O. Fischer, Anna Tsukerman, Majd Machour, Margarita Shuhmaher, Asaf Silverstein, Maya Yaakov, Orit Bar-Am, Lior Debbi, Shulamit Levenberg. Bioprinting Perfusable and Vascularized Skeletal Muscle Flaps for the Treatment of Volumetric Muscle Loss Injuries (In press).		