

SHARON FLEISCHER

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Hanassi Harishon 52A, Rehovot, Israel

Education

- Postdoctoral Fellow, Columbia University, New York, USA Summer 2017
Under the supervision of Prof. Gordana Vunjak-Novakovic, Dept. of biomedical engineering
- Direct Ph.D. Program, Dept. of Molecular Microbiology and Biotechnology, 2011-present
Tel-Aviv University. Under the supervision of Prof. Tal Dvir.
Thesis: Advanced materials for engineering functional cardiac patches
- B.Sc., Biotechnology, Tel-Aviv University 2008-2011

Work Experience

- Instructor-Alpha Program for Gifted Youth, Tel-Aviv 2014-2017
Mentored high-school students from the top 5% of gifted youth in Israel
- Supervisor of Teaching Assistants , Molecular Biology course, Tel-Aviv Uni. 2012- 2016
- Teaching Assistant, Molecular Biology course Tel-Aviv Uni. 2011-2012
- SAT and GRE Instructor, Yeda Plus- MBA Center Group, Tel-Aviv 2009-2012
Instructed over 25 courses. Designed original course curriculum, materials and techniques

Military Service

- Israel Air Force Intelligence 2004-2007
 - Analyzed intelligence data to support sensitive decisions for military operations
 - Commanded and mentored soldier platoons as part of their operational training

Honors and Awards

1. Rothschild Postdoctoral Fellowship 2017
2. Ruth Arnon Postdoctoral Fellowship 2017
3. Rappaport Award for Excellence in Biomedical Research 2017
4. Naamat Award for Excellence in Medical research 2017
5. Dean's Award for Outstanding Performance in Research 2015
6. First Prize for best poster - The Adams Fellowship Annual Conference 2015
7. Adams Fellowship - The Israel Academy of Sciences and Humanities 2014
8. TERMIS-AM- Travel Award 2014
9. Tel-Aviv Uni. Center for Nanoscience and Nanotechnology - Travel award 2014
10. Anat Krauskopf Fund – Travel Award 2014
11. "Women in Science" Scholarship - Ministry of Science 2013
12. First Prize for Best Presentation- Fred Chaoul Nanoscience Annual Meeting 2013
13. Dean's Award for Outstanding Performance in Teaching Assistance 2013

Publications

1. Fleischer S., Feiner R., Dvir T. Cutting-edge platforms in cardiac tissue engineering. *Current Opinion in Biotechnology*, submitted
2. Edri R., Gal I., Noor R., **Fleischer S.**, Adadi N., Harel T., Shapira A., Gat-Viks I., Dvir T. Engineering Patient-Specific Tissue Implants. *Science*, submitted
3. **Fleischer S.**, Feiner R., Dvir T. Cardiac tissue engineering; From matrix design to engineering bionic hearts. *Regenerative Medicine*, in press.
4. **Fleischer S.**, Shapira A., Feiner R., Dvir T. Modular assembly of thick multifunctional cardiac patches. *PNAS*. 2017.
5. Feiner R., Engel L., **Fleischer S.**, Malki M., Shapira A., Shacham-Diamand Y., Dvir T. Engineered hybrid cardiac patches with multifunctional electronics for online monitoring and regulation of tissue function. *Nature Materials*. 2016.
6. **Fleischer S.**, Miller J., Hurowitz H., Shapira A., Dvir T. Effect of fiber diameter on the assembly of functional 3D cardiac patches. *Nanotechnology*. 2015.
7. Shevach, M., Zax, R., Abrahamov, A., **Fleischer, S.**, Shapira, A., Dvir, T. Omentum ECM-based hydrogel as a platform for cardiac cell delivery. *Biomedical Materials*. 2015.
8. **Fleischer S.**, Feiner R., Shevach M., Dvir T. Coiled fiber scaffolds embedded with gold nanoparticles improve the performance of engineered cardiac tissues. *Nanoscale*. 2014.
9. Shevach M., **Fleischer S.**, Shapira A., Dvir T. Goldnanoparticle-decellularized matrix hybrids for cardiac tissue engineering. *Nano letters*. 2014.
10. Shevach M., Soffer-Tsur N., **Fleischer S.**, Shapira A., Dvir T. Fabrication of omentum-based matrix for engineering vascularized cardiac tissues. *Biofabrication*. 2014.
11. **Fleischer S.**, Shapira A., Regev O., Nseir N., Zussman E., Dvir T. Albumin fiber scaffolds for cardiac tissue engineering. *Biotechnology and Bioengineering*. 2014.
12. **Fleischer S.**, Feiner R., Shapira A., Ji J., Sui X., Wagner H.D, Dvir T. Spring-like fibers for cardiac tissue engineering. *Biomaterials*. 2013.
13. **Fleischer S.**, Dvir T. Tissue engineering on the nanoscale: lessons from the heart. *Current Opinion in Biotechnology*. 2013.

Conferences

1. TERMIS-AM, San Diego, CA, USA. poster presentation 2016
2. Northwestern Uni. and Tel-Aviv Uni. Biomaterials 2nd Workshop, USA 2016
3. 3rd BIRAX regenerative medicine conference, Oxford, UK. Oral presentation. 2016
4. Israstem, Tel-Aviv, Israel. Oral presentation. 2016
5. TERMIS world congress, Boston, MA, USA. Poster presentation 2015
6. International heart research society, Israel. Poster presentation 2015
7. The Adams Fellowship annual conference, Israel. Poster presentation 2015
8. TERMIS-AM, Washington DC, USA. Oral presentation. 2014
9. ILANIT, Eilat, Israel. Poster presentation. 2014
10. The Fred Chaoul Nanoscience Annual Meeting. Oral presentation 2013