

מפגש סיעור מוחות לקראת התארגנות למאגד פיתוח טכנולוגיות להנדסה
ולהדפסה תלת-ממדית של תאים, רקמות ואיברים

3D Bio-printing

BIRAD

ביראד חברה למחקר ופיתוח בע"מ
אוניברסיטת בר-אילן



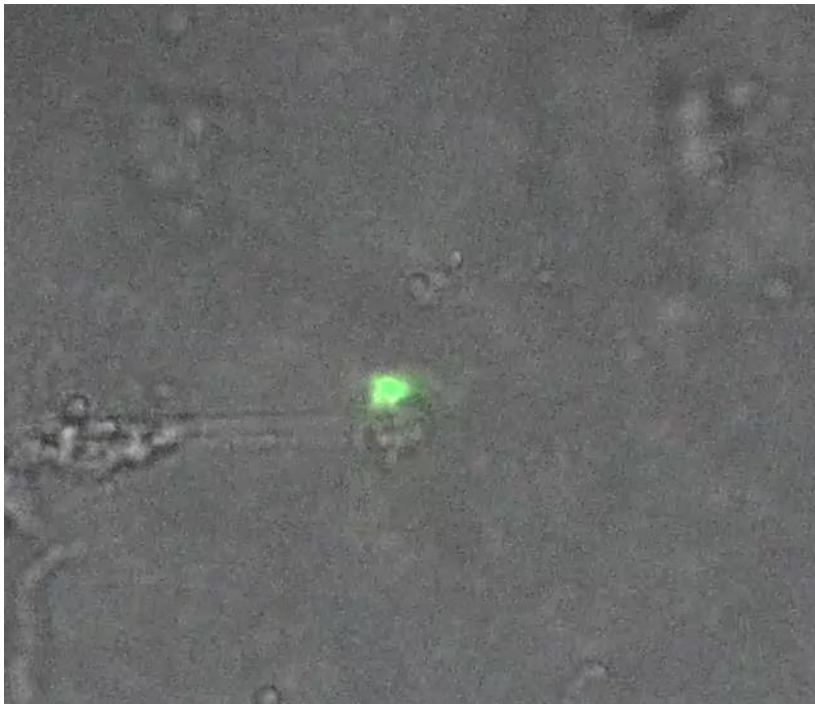
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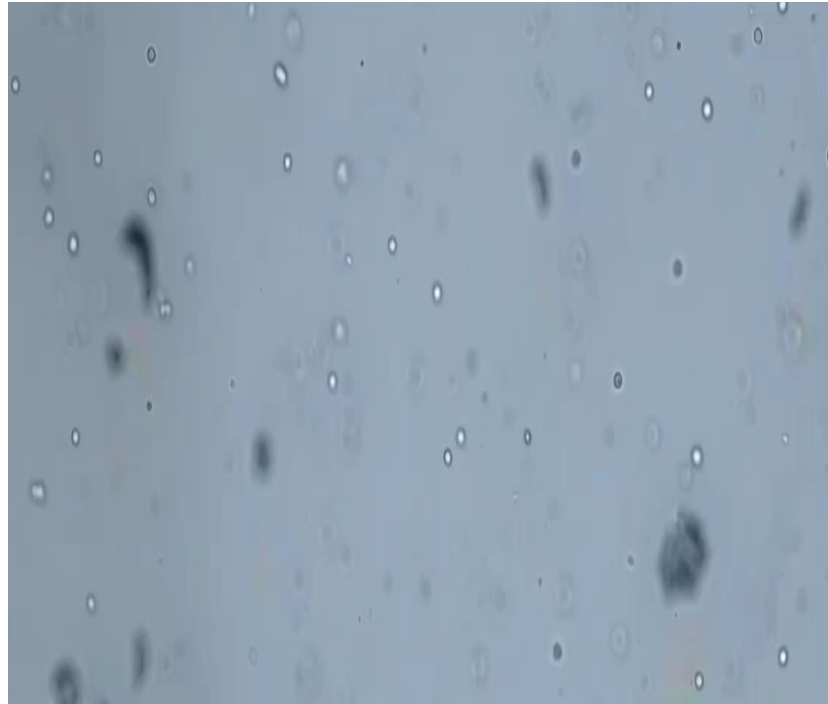
Institute for Nanotechnology & Advanced Materials

Directed Cell Assembly



Optical

With Dr. Yossi Mandel



Acoustic

With Prof. Orit Shefi

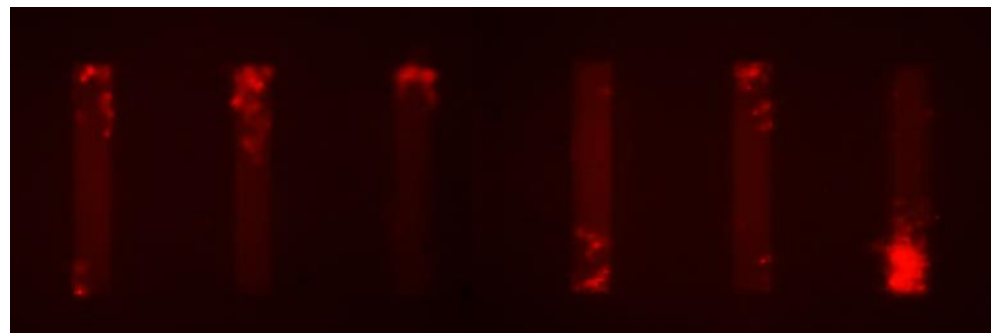
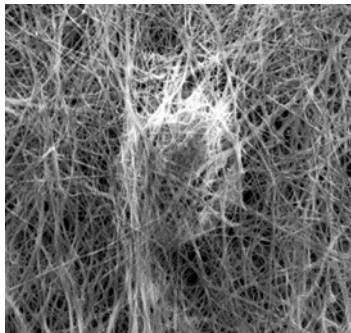
Magnetic manipulations for controlling cell organization and growth

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Collaboration of Amos Sharoni and Orit Shefi

Dept. of Physics & Faculty of Engineering
Institute of Nanotechnologies and Advanced Materials
Bar Ilan University

- ❑ 3D delivery of drugs and growth factors to target tissues or selected sets of cells.
- ❑ Magnetizing cells as a method to control their motility and growth pattern.
- ❑ Growing cells in 3D hydrogels with defined structure



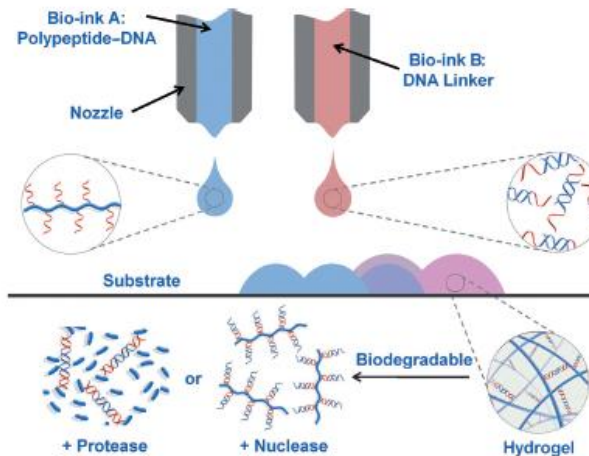
Prof. Ron Goldstein
Mina and Everard Goodman Faculty of Life Sciences
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- 16 years generating neurons from human pluripotent stem cells (president Israel Stem Cell Society 2010-11)
- Xenografting 3D human tissues, especially skin, to the chick chorioallantoic membrane for drug development/testing (including patent)
- Four years experience with FFF 3D printing of lab equipment
- Experience with culturing and growing 3D artificial skin equivalents
- Teaching experience and general knowledge of human microscopic anatomy (histology) and histological analysis techniques

Develop, image & analyze
DNA-based structures for
Novel diagnostics applications

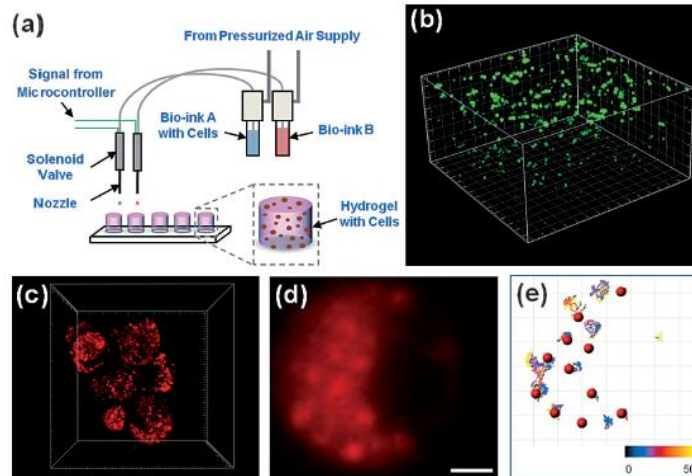
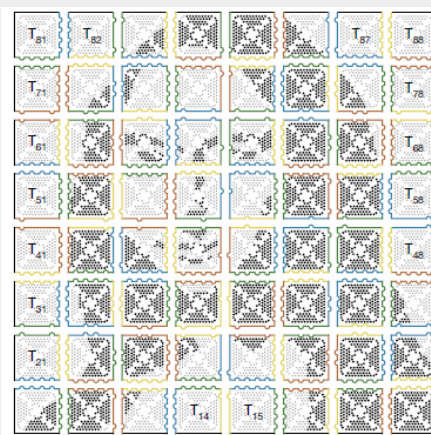
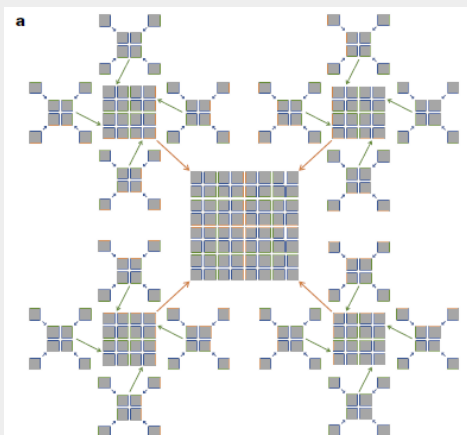


Angewandte
Communications



Next-Generation Digital Information Storage in DNA

George M. Church,^{1,2} Yuan Gao,³ Sriram Kosuri^{1,2*}



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Thank you!

