

## Research & Services | Biofilm Research Laboratory (Yissum)

**code:** 34-2007-1810

[Doron Steinberg](#), HUJI, Faculty of Dental Medicine, Oral Medicine

### Categories

Biofilms, dental biofilms, genetic expression, quorum sensing, drug delivery

### Objective/function

- The foci of Dr. Steinberg's laboratory are related to the study of various aspects of dental biofilms

### Research provided

- The Biofilm Research laboratory researches:
- Biofilm formation, composition, properties and prevention
- Cell-cell communication, quorum sensing
- Genetic expression of biofilms
- Development of drugs and drug delivery systems, and sustained release devices affecting biofilms

### Advantages

- Biofilm research is conducted using such advanced technologies as molecular biology, surface plasmon resonance, proteomics, microarrays, and biochemical analysis
- Development of several techniques for constructing biofilms on various surfaces

### Client record

- BSF (US-Israel Binational fund)
- EU (frame work -6)
- Israeli Ministry of Health
- Israel Ministry of Trade and Commerce
- Israeli Academy of Sciences
- Commercial: various international and local companies

### Available equipment

- Real time RT-PCR
- Controlled depth film fermentors
- Confocal laser scanning microscopy
- DNA microarray analyzer

### Staff


- Doron Steinberg, PhD
- Moshe Shemesh, Adel Jabbour, Mark Feldman, Dani Morrinos (PhD candidates)

- Batia Zacks , MS, Avshalom Tam, MS, Hila Shafer

## Contact

Doron Steinberg, PhD [dorons@cc.huji.ac.il](mailto:dorons@cc.huji.ac.il)

## Contact for more information:

Itzik Goldwaser , VP, Head of Research Collaborations , +972-2-6586685

---

Yissum Research Development Company of the Hebrew University of Jerusalem  
Hi-Tech Park, Edmond J. Safra Campus, Givat-Ram, Jerusalem P.O. Box 39135, Jerusalem 91390  
Israel Telephone: 972-2-658-6688, Fax: 972-2-658-6689