

Bi-national Drexel University - Hebrew University  
Translational Biomedical Research Symposium  
Drexel University, Behrakis Grand Hall at The Creese Student Center  
32nd and Chestnut Streets, Philadelphia, PA 19104  
August 29 - 31, 2010

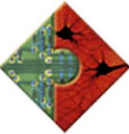
## Program Agenda

### SUNDAY, AUGUST 29



7:30 – 9:30 p.m. Welcome reception (Paul Peck Alumni Center): welcoming remarks:  
Julie Mostov and Banu Onaral

### MONDAY, AUGUST 30



8:00 a.m. Drexel transportation from hotel to conference venue (Behrakis Hall)

8:30 a.m. Registration and continental breakfast (Behrakis Hall)

9:00 a.m. Welcoming remarks: Provost, Mark Greenberg



9:10 a.m. **Session 1 - Drug Discovery and Delivery**

**Co-Chairs:** *Simon Benita / James Barrett*

*Reuven Reich (IDR):* Approaches to eradicate ovarian carcinoma

*Dan Gibson (IDR):* Novel platinum-based anticancer agents

*Alisa Morss-Clyne (DU):* Integrating biochemistry and biomechanics to understand endothelial cell – basement membrane interaction

*Gershon Golomb (IDR):* Nanoparticles for immunomodulation: development and clinical studies

*Margaret Wheatley (DU):* Harnessing the action of natural and synthetic bioactive agents through controlled/targeted delivery

*James Barrett (DUCOM):* Pain: mechanisms, biomarkers and therapeutics

11:15 - 11:30 a.m. BREAK

11:30 - 12:40 p.m. **Session 1 (continued) - Drug Discovery and Delivery**

*Simon Benita (IDR):* Delivery systems for improved diagnostic and therapeutic applications

*Elisabeth Papazoglou (DU):* Controlled delivery and optical methods of assessing treatment effectiveness

*Amnon Hoffman (IDR):* Characterization of the intestinal drug absorption mechanism for optimizing the oral delivery system



12:40 - 1:10 p.m. Buffet Luncheon

1:10 – 2:00 p.m. *Roundtable: Translational Biomedical Research - From Bench to Bedside*

**Moderators:** *Israel Ringel / Mike Edwards*

*Itzik Goldwaser (Yissum):* Yissum Concept

*Giora Feuerstein (FARMCON LLC.):* A new business model

*Anthony Green (BFTP/Nanotechnology Institute):* Unique models for multi-institutional commercialization partnerships

*Banu Onaral (BIOMED, DU):* Coulter Foundation/ Philadelphia Health Alliance

2:00 - 4:00 p.m. **Session 2 - Emerging Technologies/ Bio-Imaging**

**Co-Chairs:** *Francesca Levi-Schaffer/ Arye Rosen*

*Arye Rosen (DU):* Treatment of solid malignant tumors with microwave balloon ablation catheters and localized chemotherapy

*Israel Ringel (IDR):* Non-invasive MRI methods to estimate tumor cellular dynamics

*Ryszard Lec (DU):* Piezoelectric biosensors: recent advances and applications

*Francesca Levi-Shaffer (IDR):* Mast cells and eosinophils: the main players of allergy – are they the main targets for therapy?

*Uri Hershberg (DU):* Diversity is key - using repertoire signatures to determine immune health.

*Andres Kriete (DU):* Investigation and systems modeling of responses in aging

4:00 - 4:15 p.m. BREAK

4:15 – 5:45 p.m. **Session 2 (continued) - Emerging Technologies/ Bio-Imaging**

**Co-Chairs:** *Gershon Golomb / Alisa Morss-Clyne*

*Galia Blum (IDR):* Non-invasive optical imaging of cysteine proteases' activity using near infrared fluorescent activity based probes

*Kurtulus Izzetoglu (DU):* Functional optical brain monitor [fNIR]

*Philip Lazarovici (IDR):* Imaging of colorectal tumors using near infrared epidermal growth factor

- Wei Sun* (DU): Bi-additive process for cell printing
- 5:45 p.m. Return to hotel via Drexel transportation
- 6:45 p.m. Drexel transportation to dinner/reception venue
- 7:30 – 9:30 p.m. Reception and buffet dinner (Israel Consul General's residence, by invitation)

## **TUESDAY, AUGUST 31**

8:00 a.m. Drexel transportation to conference venue (Behrakis Hall)

8:30 a.m. Continental breakfast available in foyer (Behrakis Hall)

9:00 -11:15 a.m. **Session 3 - Regenerative Engineering**

**Co-Chairs:** *Avi Domb / Peter Lelkes*

*Peter Lelkes* (DU): LCL – vascular grafts

*Avi Domb* (IDR): Biodegradable polymers for regional therapy

*Tony Lowman* (DU): Injectable hydrogels for nucleous pulposus replacement

*Kenneth Barbee* (DU): Acute mechanisms of axonal injury and repair

11:15 - 12:00 p.m. Buffet Lunch

12:00 – 1:15 p.m. **Public Roundtable: Cardiovascular Regenerative Engineering**

**Moderator:** *Cem Bozkurt*

*Avi Domb, Gershon Golomb, Peter Lelkes, Cem Bozkurt*

Poster Session

1:30 – 3:00 p.m. **Session 4 - Neural Engineering and Regeneration**

**Co-Chairs:** *Itzhak Fischer / Esther Shohami*

*Itzhak Fisher* (DUCOM): Designing multifunctional scaffolds for repair of spinal cord injury

*Esther Shohami* (IDR): An experimental model of traumatic brain injury for evaluation of candidate drugs

*Hadar Arian-Ben Zakai* (IDR): Human umbilical cord blood stem cells potential neuroprotectors for ischemic brain injury

*Rami Yaka* (IDR): Drug addiction

3:00 - 3:15 p.m. BREAK

3:15 – 4:40 p.m. **Session 5 - Unique Drugs and Targets**

**Co-Chairs:** *Shlomo Sasson/ Aleister Saunders*

*Ole Mortensen* (DUCOM): Targeting the action of amphetamines on serotonin and dopamine transporters

*Shlomo Sasson* (IDR): Development of novel classes of antidiabetic drugs

*Aleister Saunders* (DU): Identification and characterization of APP metabolism regulators: therapeutic insights into Alzheimer's disease

*Irwin Chaiken* (DUCOM): HIV entry inhibitors

5:00 p.m. Wrap-up and closing remarks