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

*Arzy 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-Schaffer (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 (DUOM): 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