



**THE 6TH ANNUAL MEETING OF THE
ISRAELI CHAPTER OF CONTROLLED
RELEASE SOCIETY (ICRS)**

**ADVANCES IN DRUG DELIVERY
NEW CARRIERS, DEVICES AND THERAPIES**

September 5-6, 2007

Dan Hotel, Caesarea

ORGANIZING COMMITTEE

Prof. Elka Touitou, Chairman
The Hebrew University of Jerusalem

Prof. Rosa Azhari
Ort Braude College

Prof. Simon Benita
The Hebrew University of Jerusalem

Prof. Abraham Domb
The Hebrew University of Jerusalem

Dr. Biana Godin
The Hebrew University of Jerusalem

Prof. Amnon Hoffman
The Hebrew University of Jerusalem

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PROGRAM

Wednesday, September 5

Thursday, September 6

WEDNESDAY –SEPTEMBER 5, 2007

- 8:30 - 9:00 **REGISTRATION AND POSTERS SETUP**
- 9:00 - 9:10 **Welcome**
Elka Touitou, President ICRS
- 9:10- 9:50 **KEYNOTE PRESENTATION**
Biodegradable particles for the intraocular delivery of nucleic acids
Elias Fattal
University of Paris -XI in Châtenay-Malabry, France
- 9:50 - 12:40 **SESSION 1**
NOVEL ANTI-CANCER THERAPIES
Chairpersons: Tamara Minko and Abraham Rubinstein
- 9:50- 10:15 **H-19 gene: the new hope for cancer patients.**
Abraham Hochberg
Department of Biological Chemistry, Faculty of Life Sciences
The Hebrew University of Jerusalem
- 10:15- 10:40 **Targeted multicomponent nanocarriers in cancer treatment.**
Tamara Minko
Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, USA
- 10:40- 11:00 **COFFEE BREAK**
- 11:00- 11:25 **Host-tumor interactions affected by targeted angiogenesis inhibitors in dormant avascular and fast-growing angiogenic tumor models**
Ronit Satchi-Fainaro
Department of Physiology-Pharmacology, Tel Aviv University
- 11:25- 11:50 **Molecular diagnosis of cancer: Primary detection, follow up, and identification of occult residual disease.**
Aviram Nissan
Department of Surgery and Surgical Oncology, Hadassah University Hospital Mt Scopus, Jerusalem
- 11:50- 12:15 **Mucosal targeting and local cancer therapy: from colon-polyps to brachytherapy approaches**
Abraham Rubinstein
Department of Pharmaceutics, School of Pharmacy, The Hebrew University of Jerusalem

- 12:15- 12:40 **Nano-liposomes for cancer drug delivery: opportunities and limitations.**
Yechezkel Barenholz
Department of Biochemistry, Faculty of Medicine, The Hebrew University of Jerusalem
- 12:40- 13:45 **LUNCH FOR ALL PARTICIPANTS**
- 13:45-16:00 **SESSION 2**
NANOTECHNOLOGY IN PHARMACEUTICAL DESIGN AND DIAGNOSTICS
Chairpersons: Elka Touitou and Elias Fattal
- 13:45- 14:15 **Nanotechnologies for targeting ultrasound contrast agents**
Elias Fattal
University of Paris-XI in Châtenay-Malabry, France
- 14:15- 14:45 **Nanobiotechnology for sensing and clinical diagnostics**
Itamar Willner
Institute of Chemistry, The Hebrew University of Jerusalem
- 14:45- 15:15 **Nanoparticles for immunomodulation**
Gershon Golomb
Department of Pharmaceutics, School of Pharmacy, The Hebrew University of Jerusalem
- 15:15 -15:45 **Immunoemulsion, a novel targeted drug delivery system for improved cancer therapy**
Danny Goldstein
Department of Pharmaceutics, School of Pharmacy, The Hebrew University of Jerusalem
- 15:45 – 16:45 **POSTER SESSION**
- 16:45- 17:15 **Evaluation of invention: How to assess the quality of a patent?**
Ilan Cohn
Reinhold Cohn Group, Israel
- 17:15-17:35 **Delivery at the Hebrew University –From Innovation to Commercialization**
Tami Kfir
YISSUM-Technology Transfer of The Hebrew University of Jerusalem

- 17:35-19:05 **SESSION 3**
CNS TARGETING
Chairpersons: Rosa Azhari and Philip Lazarovici
- 17:35-18:05 **Intelligent biomatrices for neural engineering**
Philip Lazarovici
Department of Pharmacology, School of Pharmacy, The Hebrew University of Jerusalem
- 18:05-18:35 **Transdermal delivery of L-DOPA prodrugs for a continuous dopaminergic treatment of Parkinson's disease**
Eliahu Heldman
Department of Clinical Biochemistry, The Faculty of Health Sciences, Ben-Gurion University, Beer Sheva
- 18:35-19:05 **Microspheres releasing inhibitors of angiogenesis: a new therapy approach for brain tumor**
Marcelle Machluf
Department of Biotechnology and Food Engineering, Technion, Haifa
- 20:30 **GALA DINNER**
SPONSORED BY UNIPHARM
Award Ceremony
Gala dinner will take place in Hazer ha Beer, Zichron Yaacov
Transportation from Dan Hotel at 20:10 PM

THURSDAY –SEPTEMBER 6, 2007

- 8:00 – 8:30 **ADMINISTRATIVE SESSION – General Assembly of the ICRS**
- 8:30 - 9:15 **KEYNOTE PRESENTATION**
How Can "Inventions" Destroy Innovation?
Ron Tomer
Unipharm Ltd.
- 9:15-12:30 **SESSION 4**
CHALLENGES IN THE DELIVERY OF POORLY ABSORBED DRUGS
Chairpersons: Amnon Hoffman and Adel Penhasi
- 9:15- 9:45 **Prodrug approach to solve the poor bioavailability of highly lipophilic active compounds**
Shimon Amselem
Pharmos

- 9:45-10:15 **Selection of lipid based formulations to improve bioavailability of lipophilic drugs**
Amnon Hoffman
Department of Pharmaceutics, School of Pharmacy, The Hebrew University of Jerusalem
- 10:15-10:30 **COFFEE BREAK**
- 10:30-11:00 **Nanolipospheres approach to improve bioavailability of cyclosporine**
Abraham Domb
Department of Medicinal Chemistry, School of Pharmacy, The Hebrew University of Jerusalem
- 11:00- 11:30 **Gastroretentive dosage form as a mean to improve bioavailability of "narrow absorption window" drugs**
Leonid Kagan
Department of Pharmaceutics, School of Pharmacy, The Hebrew University of Jerusalem
- 11:30-12:00 **The correlation between structure and conformation properties of peptides and their intestinal permeability**
Chaim Gilon
Department of Organic Chemistry, The Hebrew University of Jerusalem
- 12:00-12:30 **Replacement of organic/toxic solvents in drug formulation by hydrating with Neowater (water based nanotechnology)**
Ohad Karnieli
Do-Coop Technologies
- 12:30-13:30 **LUNCH FOR ALL PARTICIPANTS AND POSTER VIEWING**
- 13:30-16:00 **SESSION 5**
DRUG DELIVERY DEVICES: FROM RESEARCH TO REGULATORY ISSUES
 Chairpersons: **Joseph Kost and Yoram Sela**
- 13:30-14:00 **FDA Regulation of Combination Products – from initial revolution to measured evolution**
Zvi Ladin
Boston MedTech Advisors, USA
- 14:00-14:30 **Oral delivery of peptides and proteins using an electrical stimulator: challenges of a novel approach**
Ziv Belsky
E-Pill Pharma Ltd.

- 14:30-15:00 **ViaDerm-hPTH drug delivery system: from concept to product**
Galit Levin
TransPharma Medical Ltd.
- 15:00-15:30 **The regulatory process in Europe and Israel for intra-oral intelligent drug delivery device**
Andy Wolff
Saliwell Ltd.
- 15:30-16:00 **Commercial opportunities in drug delivery – How “Big pharma” and VCs evaluate drug delivery based programs**
Ittai Harel
Pitango Venture Capital
- 16:00 **Concluding remarks**
Elka Touitou

