

Workshop on «New Prospects for Cancer Immunotherapy: Integrating Biomarkers in
Mathematical Models»
Dalia, Israel, May 4-6, 2008

Scientific Program

Sunday, May 4, 2008

09:00-
10:00 **Registration + coffee**

10:00- **Introduction**
10:30 Zvia Agur, Institute for Medical BioMathematics (IMBM)

10:30- **Antigen microarray chip, autoantibody profiles and immune biomarkers**
11:15 Irun R. Cohen, Immunology Department, Weizmann Institute of Science, Rehovoth, Israel

11:15-
11:30 **Discussion**

11:30- **IL-21: a pleiotropic cytokine and a new tool cancer immunotherapy**
12:15 Silvano Ferrini, Laboratorio di Immunofarmacologia, Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy

12:15-
12:30 **Discussion**

12:30- **Cancer immunotherapy by interleukin-21: developing novel treatment strategies by
13:15 a validated mathematical pharmacokinetic & pharmacodynamic model**
Moran Elishmereni, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

13:15-
13:30 **Discussion**

13:30-
14:30 **Lunch**

14:30- **IL 21 - Computer Session**
15:30 Antonio Cappuccio, Institute for Medical BioMathematics (IMBM) and Madrid University

15:30- **Integrated bone homeostasis model for denosumab pharmacodynamics in multiple
16:15 myeloma**
Donald E. Mager, Department of Pharmaceutical Sciences, University at Buffalo, State
University of New York, SUNY, NY< USA

16:15-
16:30 **Discussion**

16:30-
17:00 **Coffee break**

17:00- **Physiologically-based pharmacokinetics & pharmacodynamics model of targeted
17:45 drug delivery by monoclonal antibodies – searching for personal biomarkers**
Vladimir Vainstein, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

17:45-
18:00 **Discussion**

18:00-
19:30 **Dinner**

20:00- **Cultural activity**

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Monday, May 5, 2008

07:00-
08:00

Breakfast

08:00-
08:45

The role of T cells and anti-3rd party autologous cytotoxic T cells (CTLs) in tumor progression and the eradication of B chronic lymphocytic leukemia.

Alain Berrebi, Hematology Institute, Kaplan Medical Center, Rehovoth, Israel

08:45-
09:00

Discussion

09:00-
09:45

A new strategy for improving interleukin-11 therapy for thrombocytopenia based on a mathematical pharmacokinetic & pharmacodynamic analysis

Moran Elishmereni, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

09:45-
10:00

Discussion

10:00-
10:15

Coffee break

10:15-
11:00

Technologies for local drug delivery into the brain - the concept of convection-enhanced delivery

Zvi Ram, Department of Neurosurgery, Sourasky Medical Center, Ramat Gan, Israel

11:00-
11:15

Discussion

11:15-
12:00

From bone marrow to selected HLA-disparate stem cell grafts - a platform for cellular immunotherapy

Paul G Schlegel, Pediatric Hematology, Oncology, Pediatric Stem Cell Transplant Program, University Children's Hospital, Wuerzburg, Germany

12:00-
12:15

Discussion

12:15-
13:00

Lunch

13:00-
14:00

Monoclonal antibodies - Computer Session

Eva Jager, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

14:00-

A guided excursion in Ramot Menashe

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Tuesday, May 6, 2008

07:00-
08:00

Breakfast

08:00-
08:45

Tumor-specific immunotherapy for high grade glioma using ex vivo expanded autologous T-cells: therapeutic potential or utopia?

Mathias Wolf, Pediatric Stem Cell Transplant Program, University Children's Hospital, Wuerzburg, Germany

08:45-
09:00

Discussion

09:00-
09:45

Markers, Mathematics, Immunotherapy and Malignancy - a Clinician's Perspective

Charles Wiseman, Immunotherapy Laboratory, St. Vincent Medical Center, Los Angeles, CA USA.

09:45-
10:00

Discussion

10:00-
10:30

Coffee break

10:30-
11:30

Measles virus: Evidence for association with cancer

Shmuel Ariad, Head, Department of Oncology
Soroka Medical Center & Ben Gurion University of the Negev, Beer Sheva, Israel

11:30-
12:15

Improving alloreactive CTL immunotherapy for malignant gliomas using a simulation model of their interactive dynamics – identifying efficacy biomarkers

Natalie Kalev – Kronik, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

12:15-
12:30

Discussion

12:30-
13:30

Lunch

13:30-
14:30

Malignant glioma – Computer Session

Yuri Kogan and Ofir Shukron, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

14:30-
15:15

IL-11 - computer sessions

Yuri Heifetz, Institute for Medical BioMathematics (IMBM)

15:15-
15:30

Discussion

15:30-
16:15

Panel Discussion

Zvia Agur, Institute for Medical BioMathematics (IMBM), Bene Ataroth, Israel

16:15-

Farewell