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**Cancer Biology Research Center**

**17th Biennial Conference**

**Royal Rimonim Dead Sea Hotel**

**November 11-14, 2015**

**Wednesday, November 11, 2015**

13:30 - 14:30 **Registration and Reception**

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| 14:30 - 14:40 | **Opening Session** |

**OPENING AND GREETINGS**

**Joseph Klafter**, President, Tel Aviv University

**Daniel Chamovitz**, Dean, Faculty of Life Sciences

**Miri Ziv**, Director, Israel Cancer Association

**Nadir Arber**, Head, Cancer Biology Research Center

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| 14:40 - 16:00 | **Session I** **TRIBUTE TO PRINCESS MARGARET** |

Chairs: **Shai Izraeli**, Sheba Medical Center

**Robert Rottapel**, Princess Margaret Cancer Centre

14:40 - 15:00 REGULATION OF PHENOTYPIC DIVERSITY THROUGH OXYGEN SENSITIVE SIGNALING PATHWAYS

**Brad Wouters** -Princess Margaret Cancer Centre

15:00 - 15:20 Self-renewal and the origins of leukemia

**Norman Iscove** -Princess Margaret Cancer Centre

15:20 - 15:40 Multiple Myeloma tumor progenitors: role in drug resistance and relapse

**Rodger Tiedemann** -Princess Margaret Cancer Centre

15:40 - 16:00 TREATMENT OF MULTIPLE MYELOMA USING CAR REDIRECTED T CELLS

**Zelig Eshhar** -Tel-Aviv Sourasky Medical Center

16:00 - 16:30 *C o f f e e B r e a k*

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| 16:30 -18:15 | **Session II** **DIAGNOSTICS AND THERAPEUTICS** |

Chairs: **Boaz Tadmor**, Rabin Medical Center

**Raphael Catane,** Sheba Medical Center

16:30 - 16:45 GLYCO-NANOPARTICLES FOR CANCER VACCINE

**Vered Padler-Karavani** Tel Aviv University (Life Sci.)

16:45 - 17:00 TELOMERASE AS A TARGET FOR CANCER THERAPY

**Meir Lahav** -Rabin Medical Center

17:00 - 17:15 THE HORMONE KLOTHO: A NOVEL REGULATOR OF TUMOR METABOLISM

**Tami Rubinek** -Tel-Aviv Sourasky Medical Center

17:15 - 17:30 TYROSINE KINASE INHIBITORS AND CARDIOVASCULAR DISEASE

**Pia Raanani** -Rabin Medical Center

**Wednesday, NOVEMBER 11, 2015 (cont’d)**

17:30 - 17:45 WHAT IS NEW IN OVARIAN CANCER?

**Tamar Safra** - Tel-Aviv Sourasky Medical Center

17:45 - 17:55 SECRETOME OF BONE MARROW MESENCHYMAL STEM CELLS: AN EMERGING PLAYER IN LUNG CANCER PROGRESSION AND MECHANISM OF TRANSLATION INITIATION

**Oshrat Attar-Schneider** - Meir Medical Center

17:55 - 18:05 microRNA-BASED NANOGELS FOR COMBATING GLIOBLASTOMA

**Zohar Shatsberg** -Tel Aviv University (Med.)

18:05 - 18:15 PROMIS-QUAN: A NOVEL PROTEOMIC METHOD FOR THE DISCOVERY OF BLOOD-BASED CANCER BIOMARKERS

**Michal Harel** -Tel Aviv University (Med.)

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| 18:20 - 18:45 | **Flash Session 1** |

Chair: **Drorit Neumann,** Tel Aviv University (Med.)

18:20 -18:25 HIGH THROUGHPUT SCREENING OF PRIMARY VERSUS METASTATIC ISOGENIC CELL-LINES REVEALS A NOVEL ROLE FOR SNX18 IN MIGRATION OF MELANOMA

**Maya Goshen** - Sheba Medical Center

18:25 -18:30 REGULATION OF CEACAM1 PROTEIN EXPRESSION IN BRAF-MUTANT HUMAN METASTATIC MELANOMA CELLS

**Karin Kfir** - Sheba Medical Center

18:30 -18:35 GLOBAL PROTEOMIC PROFILING OF RESPONSE TO NEOADJUVANT CHEMOTHERAPY IN LOCALLY ADVANCED BREAST CANCER

**Anjana Shenoy** - Tel Aviv University (Med.)

18:35 -18:40 DUAL MTOR INHIBITION: A NOVEL TREATMENT STRATEGY TO OVERCOME ENDOCRINE RESISTANCE CAUSED BY ACQUIRED MUTATIONS OF ESTROGEN RECEPTOR (ER) ALPHA

**Lotem Shpigner** - Tel Aviv Sourasky Medical Center

18:40 -18:45 IN VIVO MOLECULAR IMAGING OF HIF-1α AND SEPTIN 9 INTERACTION BY BIMOLECULAR FLUORESCENCE COMPLEMENTATION

**Maya Golan** - Tel Aviv Sourasky Medical Center

20:00 ***D i n n e r***

21:30 ***SPECIAL GUEST LECTURE***

**Yohanan Danino - 17th chief of Israel Police**

**THURSDAY, NOVEMBER 12, 2015**

07:00 - 08:00 ***B r e a k f a s t***

08:00 - 08:40 **Meet the Expert**   
**John Dick, Robert Rottapel, Brad Wouters, Rama Khokha**

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| 08:40 - 10:10 | **Session III** **MICE ARE NOT ALONE - ALTERNATIVE  PRE-CLINICAL MODELS** |

Chairs: **Neta Erez**, Tel Aviv University (Med.)  
**Nir Peled,** Rabin Medical Center

08:40 - 09:00 ***INTRODUCTION TALK***

ADULT MAMMARY STEM CELLS AND BREAST CANCER.

**Rama Khokha** - Princess Margaret Cancer Centre

09:00 - 09:15 NEW ASPECTS IN MELANOMA MICRO ENVIRONMENT

**Carmit Levy** - Tel Aviv University (Med.)

09:15 - 09:25 ASTROGLIOSIS IS INSTIGATED IN A NOVEL MOUSE MODEL OF SPONTANEOUS MELANOMA BRAIN METASTASIS

**Hila Schwartz** - Tel Aviv University (Med.)

09:25 -10:00 ***KEYNOTE LECTURE***

DEVELOPING THE NEXT GENERATION OF ANGIOGENESIS INHIBITION WITH VANUCIZUMAB, A NOVEL BI-SPECIFIC HUMAN ANTIBODY AGAINST ANG-2 AND VEGF-A

**Oliver Krieter** - Roche Pharmaceuticals Research & Early Development

10:00 - 10:30 ***Coffee Break and Visit the Exhibition***

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| 10:30 -12.00 | **Session IV** **IMMUNOTHERAPY - PD1 INHIBITORS AND BEYOND** |

Chairs: **Yoav Henis**, Vice President for R&D**,** Tel Aviv University  
**Gal Markel**,Sheba Medical Center

10:30 - 10:45 Studying design principles for bi-specific IgGs – the H-L pairing challenge

**Itai Benhar** - Tel Aviv University (Life Sci.)

10:45 - 11:00 GLIOMA INDUCED IMMUNE ACTIVATION - THE GLASS HALF FULL

**Ilan Volovitz** - Tel Aviv Sourasky Medical Center

11:00 - 11:15 TUMOR-ASSOCIATED MACROPHAGES PROMOTE TUMOR DEVELOPMENT THROUGH REMODELING OF ITS EXTRACELLULAR MATRIX

**Chen Varol** - Tel-Aviv Sourasky Medical Center

**THURSDAY, NOVEMBER 12, 2015 (cont’d)**

11:15 - 11:30 PRECISION THERAPY: THE WIZARD EXPECTATIONS

**Raanan Berger** - Sheba Medical Center

11:30 - 11:45 NATURE AS AN AID TO CANCER THERAPY: TOXIN-ANTI-TOXIN CONCEPT

**Shiran Shapira** - Tel-Aviv Sourasky Medical Center

11:45 - 11:55 ADOPTIVE CELL THERAPY WITH TUMOR INFILTRATING LYMPHOCYTES: CLINICAL RESULTS AND CORRELATION TO CLINICAL SUCCESS

**Michal Besser** - Sheba Medical Center

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| 12:00 - 13:10 | **Session V** **METHODOLOGIES** |

Chair: **Irit Ben-Aharon**, Rabin Medical Center

**Ronit Satchi-Fainaro**, Tel Aviv University (Med.)

12:00 - 12:15 PROTEOMICS

**Tami Geiger** - Tel Aviv University (Med.)

12:15 - 12:30 MAPPING OF EPIGENETIC MARKS AND DNA DAMAGE SITES ON INDIVIDUAL DNA MOLECULES

**Yuval Ebenstein** - Tel Aviv University (Exact Sci.)

12:30 - 13:00 **HOW TO READ NGS?**

*• THE SCIENTIST’S PERSPECTIVE:*

EXPLORATION OF NOVEL REGULATORY LAYERS USING NGS

**Rani Elkon** - Tel Aviv University (Med.)

*• THE GENETICIST’S PERSPECTIVE:*

**Eitan Friedman** - Sheba Medical Center, Tel Hashomer

*• THE ONCOLOGIST’S PERSPECTIVE:*

**Ravit Geva** - Tel Aviv Sourasky Medical Center

13:00 - 13:10 METHODS IDENTIFYING NEOANTIGEN SPECIFIC T CELLS FOR IMMUNOTHERAPY

**Efrat Merhavi-Shoham** - Sheba Medical Center

13:15 - 14:30***Djerassi Legacy - Brain Storming Lunch***

HEMATOLOGICAL MALIGNANCIES

**Pia Raanani, Shai Izraeli, Rodger Tiedemann, John Dick,   
Norman Iscove, Mario Dicato**

**THURSDAY, NOVEMBER 12, 2015 (cont’d)**

GI MALIGNANCIES

**Baruch Brenner, Ravit Geva, Nadir Arber, Catherine O'Brien**

BREAST MALIGNANCIES

**Ella Evron, Neta Erez, Eitan Friedman**

TRANSLATIONAL RESEARCH:

**Oliver Krieter, Ilan Volovitz, Meir Lahav**

ADVANCED TECHNOLOGIES USED FOR DEEP MEDICAL UNDERSTANDING

**Vered Padler-Karavani, Ariel Munitz, Noam Shomron**

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| 14:30 - 16:30 | **Session VI** **HEMATOLOGICAL MALIGNANCIES** –  ***Dotan Award Laureates*** |

Chair: **Maya Koren-Michowitz**,Assaf Harofe Medical Center

**Pia Raanani,** RabinMedical Center

**STUDIES AT THE FOREFRONT OF HEMATOLOGY RESEARCH**

14:30 - 14:50 Targeting Mantle Cell Lymphoma (MCL) with Nanomedicines

**Dan Peer** - Tel Aviv University (Life Sci.)

14:50 - 15:10 INTRACELLULAR V3 INTEGRIN AND NUCLEAR IGF1 RECEPTOR

**Osnat Ashur-Fabian** - Meir Medical Center

15:10 - 15:30 Eosinophils: The Forgotten Cells of the Tumor Microenvironment

**Ariel Munitz** - Tel Aviv University (Med.)

15:30 - 15:50 NOVEL SIGNALING PATHWAY IN CLL – PATHOPHYSIOLOGY AND NEW TARGET FOR THERAPY

**Yair Herishanu** - Tel-Aviv Sourasky Medical Center

15:50 - 16:10 ERG AS AN HEMATOPOIETIC ONCOGENE – CHALLENGES AND OPPORTUNITIES

**Shai Izraeli** - Sheba Medical Center

16:10 - 16:20 BONE MARROW MESNCHYMAL STEM CELLS` CONDITIONING BY MULTIPLE MYELOMA CELLS: TRANSLATION INITIATION AS THE PLAYING FIELD

**Mahmoud Dabbah** - Meir Medical Center

16:20 - 16:30 ERYTHROPOIETIN MEDIATED IMMUNO-SKELETAL EFFECTS IN MULTIPLE MYELOMA - A FRIEND AND FOE.

**Naamit Deshet-Unger** - Tel Aviv University (Med.)

**THURSDAY, NOVEMBER 12, 2015 (cont’d)**

16:30 - 17:15***Coffee Break and Visit the Exhibition***

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| 17:15-18:15 | **Session VII** **BIOINFORMATICS** |

Chairs: **Metsada Pasmanik-Chor**, Tel Aviv University (Life Sci.)  
**Noam Shomron**, Tel Aviv University (Med.)

17:15 - 17:30 A NETWORK-BASED ANALYSIS OF COLON CANCER SPLICING CHANGES REVEALS A NOVEL REGULATORY PATHWAY

**Gil Ast** - Tel Aviv University (Med.)

17:30 - 17:45 STATISTICAL ANALYSIS OF GENOME-WIDE ASSOCIATION STUDIES: CLASSICAL METHODS AND MODERN TWISTS

**Saharon Rosset** - Tel Aviv University (Exact Sci.)

17:45 - 18:00 CHEMOTHERAPY-INDUCED VASCULAR TOXICITY: THE SEED OF EVIL?

**Irit Ben-Aharon** - Rabin Medical Center

18:00 - 18:07 COMPREHENSIVE MOLECULAR PROFILING OF TUMOR EVOLUTION IN RESPONSE TO NEOADJUVANT TREATMENT OF BREAST CANCER

**Maya Dadiani** - Sheba Medical Center

18:07 - 18:15 THE CROSSTALK BETWEEN OMENTAL FAT AND TUMOR CELLS IN GASTROINTESTINAL MALIGNANCIES

**Shelly Loewenstein** - Tel-Aviv Sourasky Medical Center

18:15 - 20:15 ***Poster Viewing and Visit the Exhibition***

20:30 ***D i n n e r***

21:30 ***DANNY SANDERSON LIVE!!***

**FRIDAY, NoVEMBER 13, 2015**

07:00 - 08:00 ***B r e a k f a s t***

08:00 - 08:45 **Meet the Expert   
Catherine O’Brien, Rodger Tiedemann, Norman Iscove, Mario Dicato**

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| 08:45 -10:15 | **Session VIII** **CANCER STEM CELL OR TUMOR INITIATING CELLS?** |

Chairs: **Yehudit Birger**,Sheba Medical Center  
**Mario Dicato**,University of Luxemburg

08:45 - 09:05 ***INTRODUCTION TALK:***

Self-renewal as a therapeutic target in colorectal cancer

**Catherine O’Brien** - Princess Margaret Cancer Centre

09:05 - 09:20 De-differentiation and Reprogramming: Origins of Cancer Stem Cells

**Dinorah Friedmann-Morvinski** -Tel Aviv University (Life Sci.)

09:20 - 09:35 EARLY DIFFERENTIATION DYNAMICS IN EMBRYOID BODIES‬

**Iftach Nachman** -Tel Aviv University (Life Sci.)

09:35 - 09:50 REGULATION OF HEMATOPOIESIS: NORMAL AND LEUKEMIA STEM CELLS

**Michael Milyavsky** - Tel Aviv University (Med.)

09:50 - 10:00 CHARACTERIZING THE INTERPLAY BETWEEN CD24 AND THE WNT SIGNALING PATHWAY IN INTESTINAL TUMORIGENESIS.

**Ahmad Fokra** - Tel-Aviv Sourasky Medical Center

10:00 - 10:10 DISSECTING STAGES OF HUMAN KIDNEY DEVELOPMENT AND TUMORIGENESIS WITH SURFACE MARKERS AFFORDS SIMPLE PROSPECTIVE PURIFICATION OF NEPHRON STEM CELLS

**Naomi Pode Shakked** - ShebaMedical Center

10:10 - 10:30 ***Coffee Break and Visit the Exhibition***

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| 10:30 -11:00 | **Flash Session 2** |  |

Chair: **Moshe Mittelman**, Tel-Aviv Sourasky Medical Center

**Shiran Shapira**, Tel-Aviv Sourasky Medical Center

10:30 - 10:35 ORAL GLUCOSE TOLERANCE TEST AND THE VOLATILE SIGNATURE IN LUNG CANCER- A POTENTIAL SURROGATE MARKER FOR CANCER METABOLISM

**Layah Alkoby-Meshulam** - Sheba Medical Center

**FRIDAY, NoVEMBER 13, 2015** (cont’d)

10:35 - 10:40 CHARACTERIZING HUMAN HEMATOPOIETIC STEM CELLS RESPONSE TO DNA DAMAGE

**Shahar Biechonski** - Tel Aviv University (Med.)

10:40 - 10:45 MICRORNAS IN OSTEOSARCOMA TUMOR-HOST INTERACTIONS: IDENTIFICATION, VALIDATION AND THERAPEUTIC POTENTIAL

**Galia Tiram** - Tel Aviv University (Med.)

10:45 - 10:50 IN SILICO DESIGN OF ANTIBODIES DIRECTED TO A TUMOR-ASSOCIATED CARBOHYDRATE ANTIGEN

**Ron Amon** - Tel Aviv University (Life Sci.)

10:50 - 10:55 CANCER EPIGENETIC HETEROGENEITY

**Adi Zundelevich** - Sheba Medical Center

10:55 - 11:00 microRNAs REGULATE CANCER CELL SENSITIVITY TO COMPLEMENT-DEPENDENT CYTOTOXICITY

**Yaron Hillman** - Tel Aviv University (Med.)

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| 11:00 - 13:00 | **Session IX** **KEYNOTE LECTURES** |

Chairs: **Nadir Arber**, Tel-Aviv Sourasky Medical Center  
**John Dick**, Princess Margaret Cancer Centre

11:00 - 11:20 CLINICAL VERSUS STATISTICAL SIGNIFICANCE IN CANCER THERAPY. VALUE NEEDS TO BE INCLUDED IN THE EQUATION.

**Mario Dicato** - University of Luxemburg

11:20 - 11:40 TOPPLING THE RAS PATHWAY: IDENTIFICATION OF A POSITIVE FEEDBACK REQUIRED FOR ONCOGENIC RAS SIGNALING

**Robert Rottapel** - Princess Margaret Cancer Centre

11:40 - 12:10 STEM CELLS IN CANCER: DO THEY MATTER?

**John Dick** - Princess Margaret Cancer Centre

12:10 - 13:00 ***Awards Ceremony***

13:00 Bus Departure

19:30 ***D i n n e r***

20:30 ***MEIR SHALEV - REFLECTIONS ON THE BIBLE’S INTRIGUING STORIES***

**SATURDAY, NoVEMBER 14, 2015**

07:00 - 10:00 ***B r e a k f a s t***

09:30 - 10:30 ***KEYNOTE LECTURE***

Chair: **Judith Ben-Porath**, Cancer Biology Research Center

How to intEgrate science into clinical practice

**Nadir Arber** - Tel-Aviv Sourasky Medical Center

10:30 ***Social ACTIVITY (outdoors***)

17:30 Bus Departure