

SCIENTIFIC PROGRAM

WEDNESDAY, NOVEMBER 11, 2015

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

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

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 **Coffee Break**

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 **TELOMERES AS A TARGET FOR CANCER THERAPY**

Meir Lahav | Rabin Medical Center

SCIENTIFIC PROGRAM | WEDNESDAY, NOVEMBER 11, 2015 (cont'd)

- 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
- 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**
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- 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

SCIENTIFIC PROGRAM | WEDNESDAY, NOVEMBER 11, 2015 (cont'd)

- 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-1 α AND SEPTIN 9 INTERACTION BY BIMOLECULAR FLUORESCENCE COMPLEMENTATION**
Maya Golan | Tel Aviv Sourasky Medical Center
- 20:00 **Dinner**
- 21:30 **SPECIAL GUEST LECTURE**
Yohanan Danino | 17th Chief of Israel Police

SCIENTIFIC PROGRAM

THURSDAY, NOVEMBER 12, 2015

07:00 - 08:00 **Breakfast**

08:00 - 08:40 **MEET THE EXPERT**

John Dick, Robert Rottapel, Brad Wouters, Rama Khokha

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**

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.)

SCIENTIFIC PROGRAM | THURSDAY, NOVEMBER 12, 2015 (cont'd)

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

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

12:00 - 13:10 **SESSION V METHODOLOGIES**

Chairs: 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

SCIENTIFIC PROGRAM | THURSDAY, NOVEMBER 12, 2015 (cont'd)

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

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

14:30 - 16:30 **SESSION VI HEMATOLOGICAL MALIGNANCIES - DOTAN AWARD LAUREATES**

Chair: **Maya Koren-Michowitz** | Assaf Harofe Medical Center
Pia Raanani | Rabin Medical 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 $\alpha V \beta 3$ 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.)

SCIENTIFIC PROGRAM | THURSDAY, NOVEMBER 12, 2015 (cont'd)

- 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 MESSAGES FROM 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.)

16:30 - 17:00 **Coffee Break and Visit the Exhibition**

17:00 - 18:15 **SESSION VII BIOINFORMATICS**

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

- 17:00 - 17:15 **METHODOLOGIES FOR EPIGENOME STUDIES AND DIFFERENCES IN METHYLATION PROFILES**
Eran Halperin | Tel Aviv University (Life Sci.)
- 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

SCIENTIFIC PROGRAM | THURSDAY, NOVEMBER 12, 2015 (cont'd)

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

FRIDAY, NOVEMBER 13, 2015

07:00 - 08:00 **Breakfast**

08:00 - 08:45 **MEET THE EXPERT**
Catherine O'Brien, Rodger Tiedemann,
Norman Iscove, Mario Dicato

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 DEVELOP**
MENT AND TUMORIGENESIS WITH SURFACE MARKERS
AFFORDS SIMPLE PROSPECTIVE PURIFICATION OF
NEPHRON STEM CELLS
Naomi Pode Shakked | Sheba Medical Center

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

SCIENTIFIC PROGRAM | FRIDAY, NOVEMBER 13, 2015 (cont'd)

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

SCIENTIFIC PROGRAM

SATURDAY, NOVEMBER 14, 2015

07:00 - 10:00 **Breakfast**

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**