



Tuesday, October 2, 2018

18:00 Get-together Reception, Dan Carmel Hotel

Wednesday, October 3, 2018

8:30-9:20 Opening Session - Plenary  
Chair: Gad Rennert, Israel

OPENING REMARKS  
**Gad Rennert**, Director, Clalit National Cancer Control Center and National Personalized Medicine Program  
08:30 **Boaz Golany**, Vice President For External Relations & Resource Development, Technion - Israel Institute of Technology  
**Avi Goldberg**, Director, Carmel Medical Center, Clalit Health Services  
**Miri Ziv**, CEO, Israel Cancer Society

Keynote Lecture 1  
08:50 APPROACHES TO COMPLEX TRAIT ANALYSIS  
**Walter Bodmer**, UK

09:20 Coffee, poster viewing and visit the exhibition

Hall A

9:40-13:00 Parallel Session 1A - Clinical Genetics  
Chairs: Lina Basel Salmon & Tzipora Falik Zaccai, Israel

09:40 OLIGOGENIC, MULTIGENIC AND BURDEN OF MUTATIONS IN NEURODEGENERATIVE DISORDERS EVEN IN FOUNDER POPULATIONS  
**Avi Orr-Urtreger**, Israel

10:00 THE ROLE OF MEDICAL GENETICIST'S IN INTERPRETATION OF WES OF HIS PATIENTS: RABIN MEDICAL CENTER EXPERIENCE  
**Lina Basel Salmon**, Israel

10:20 GENETIC VARIATION AND DISEASE RISK OF THE QATARI POPULATION  
**Ronald G. Crystal**, USA

10:40 MONOGENIC DISEASES: FROM PHENOTYPES TO GENES, DISEASE PREVENTION AND NOVEL MOLECULAR PATHWAYS  
**Ohad Birk**, Israel

11:00 THE "MAGIC IN THE WEB OF IT": HOW A RARE DISORDER IS UNTANGLING THE MYSTERIES OF PARKINSON DISEASE  
**Ellen Sidransky**, USA

11:20 POPULATION HETEROGENEITY OF NONSYNDROMIC CLEFT LIP AND PALATE  
**Rajiva Raman**, India

11:40 THE KEY ROLE OF THE ZINC TRANSPORTER SLC30A2/ZNT2 IN TRANSIENT NEONATAL ZINC DEFICIENCY (TNZD)  
**Yehuda Assaraf**, Israel

12:00 EXPANDING THE FOUNDER MUTATION SPECTRUM OF THE ISRAELI POPULATION  
**Claudia Gonzaga Jauregui**, USA

12:15 B4GALT1: A NOVEL GENE FOR CVD RISK FACTORS DISCOVERED IN THE OLD ORDER AMISH  
**Cristopher Van Hout**, USA

12:30 ASSOCIATION BETWEEN THE RISK OF MONOCLONAL B-CELL LYMPHOCYTOSIS (MBL) AND THE CHRONIC LYMPHOCYTIC LEUKEMIA (CLL) POLYGENIC RISK SCORE (PRS)  
**Geffen Kleinstern**, USA

12:40 CREATION OF ISRAEL'S FIRST NATIONAL POPULATION BASED BIOBANK – FROM PATIENT ENGAGEMENT TO EXECUTION  
**Varda Shalev**, Israel

12:50 A NOVEL PATHWAY IS RESPONSIBLE FOR A LETHAL CARDIOMYOPATHY AMONG ARAB CHRISTIANS  
**Tzipora Falik Zaccai**, Israel

13:00 Lunch, poster viewing and visit the exhibition

Hall B

9:40-13:00 Parallel Session 1B - Population Genetics  
Chairs: Harry Ostrer, USA & Shalom Wald, Israel

09:40 SOURCES OF THE GENETIC DIVERSITY IN CONTEMPORARY JEWISH POPULATIONS  
**Alexander Rouen**, France

10:00 THE GENETICS OF BRONZE AND IRON AGES POPULATIONS OF THE LEVANT  
**Liran Carmel**, Israel

10:20 HAPLOTYPE SHARING IN FOUNDER POPULATIONS  
**Shai Carmi**, Israel

10:40 JEWISH DIASPORA SITES FROM CLASSICAL ANTIQUITY AND MIDDLE AGES  
**Leonard Rutgers**, The Netherlands

11:00 HAPLOGROUP J-Z640 - GENETIC INSIGHT INTO THE LEVANTINE BRONZE AGE  
**Michael Waas**, Israel

11:20 ROUND TABLE DISCUSSION - GENETIC ARCHEOLOGY:  
Moderator: **Harry Ostrer**, USA

PREHISTORY IN ISRAEL  
**Israel HersHKovitz**, Israel

MEGIDDO  
**Israel Finkelstein**, Israel

QUMRAN  
**Yossi Naggari**, Israel

BEIT SHEARIM  
**Gideon Avni**, Israel



Wednesday, October 3, 2018 (cont.)

14:00-15:50	<b>Plenary Session 2 - Genetics of Complex Diseases</b> Chair: <b>Avi Orr-Urtreger &amp; Ohad Birk</b> , Israel
	<b>Keynote Lecture 2</b>
14:00	MOLECULAR INTERPRETATION IN GENETICS AND GENOMICS OF PSYCHIATRIC DISORDERS <b>Elliot Gershon</b> , USA
14:20	THE GENETICS OF HYPERLIPIDEMIA <b>Ronen Durst</b> , Israel
14:40	MOLECULAR AND PRENATAL DIAGNOSIS FOR SOME OF THE INHERITED EYE DISEASES AND GENE DISCOVERIES <b>Sundaresan Periasamy</b> , India
15:00	GENETIC VARIANTS IN THE METABOLISM OF OMEGA-6 AND OMEGA-3 FATTY ACIDS: THEIR ROLE IN THE DETERMINATION OF NUTRITIONAL REQUIREMENTS AND CHRONIC DISEASE RISK <b>Artemis P. Simopoulos</b> , USA
15:20	GENOMIC BIOMARKERS PREDICTING ALZHEIMER'S DISEASE <b>David Gurwitz</b> , Israel
15:40	IDENTIFICATION OF CLUSTERS FOR A GROUP OF RARE DISEASES (MUCOPOLYSACCHARIDOSES) IN BRAZIL AND ECUADOR <b>Sandra Leistner Segal</b> , Brazil
15:50	Coffee, poster viewing and visit the exhibition
16:20-18:10	<b>Plenary Session 3 - Genetic Screening</b> <b>ENDORSED BY THE ISRAEL CANCER ASSOCIATION</b> Chairs: <b>Ephrat Levy-Lahad &amp; Eliezer Robinson</b> , Israel
16:20	POLYGENIC RISK SCORES AND LONGITUDINAL HEALTH STUDIES AT 23ANDME <b>Nicholas Eriksson</b> , USA
16:40	POPULATION BASED GENETIC TESTING FOR PRIMARY PREVENTION <b>Ranjit Manchanda</b> , UK
17:00	POPULATION SCREENING FOR BRCA1 AND BRCA2 MUTATIONS <b>Ephrat Levy-Lahad</b> , Israel
17:20	GENETIC TESTING FOR BRCA1 AND BRCA2 IN THE CANADIAN POPULATION <b>Steven Narod</b> , Canada
17:40	UNIVERSAL SCREENING FOR THE CDC TIER 1 GENOMIC CONDITIONS: OPPORTUNITIES FOR HEALTH SYSTEMS, GOVERNMENT HEALTH AGENCIES, AND SEQUENCING INITIATIVES <b>Jill Hagenkord</b> , USA
18:00	BEFRIEND YOUR BOOBS (BYB), A BREAST CANCER HIGH-GRADE SCHOOLS INTERVENTION: GENETICS, LIFESTYLE AND EARLY DIAGNOSIS <b>Michelle Ferris</b> , UK
18:10	End of day's sessions

Thursday, October 4, 2018

	Hall A	Hall B
8:00-10:40	<b>Parallel Session 4A - Genetics Methods</b> Chairs: <b>Gil Atzmon &amp; Yehuda Assaraf</b> , Israel	<b>Parallel Session 4B - Cancer Genetics Risk Identification</b> <b>ENDORSED BY ECP: EUROPEAN CANCER PREVENTION</b> Chair: <b>Jaak Janssens</b> , Belgium
08:00	EPIGENETIC STRESS RESPONSES AND STEM CELL AGING <b>Karl Lenhard Rudolph</b> , Germany	RCT OF PREVENTING OVARIAN CANCER IN BRCA CARRIERS WITH ASPIRIN <b>Amit Oza</b> , Canada
08:20	ERRORS AND EDITS IN THE CENTRAL DOGMA <b>Itzhak Pilpel</b> , israel	BREAST CANCER RISK GENES <b>Judy Garber</b> , USA
08:40	RNA AND DNA EDITING MEDIATED BY ADARS AND APOBECS PROTEINS <b>Erez Levanon</b> , Israel	IDENTIFYING CANCER WITH A MULTI-ANALYTE BLOOD TEST - CancerSEEK <b>Nickolas Papandopoulos</b> , USA
09:00	FUNCTIONAL APPROACHES FOR UNDERSTANDING THE CONSEQUENCES OF GENETIC VARIATION <b>Harry Ostrer</b> , USA	THE DISASTROUS MANIA OF THINKING': WHY PANEL TESTING FOR CANCER RISK HAS BECOME BROADER AND BROADER <b>William Foulkes</b> , Canada
09:20	CRISPR BASED FUNCTIONAL GENOMICS FOR STUDYING THE CELL BIOLOGY OF NEURODEGENERATIVE DISEASES <b>Ophir Shalem</b> , USA	CHARACTERIZING VARIANTS OF UNCERTAIN SIGNIFICANCE (VUS) <b>Fergus J. Couch</b> , USA





Thursday, October 4, 2018 (Cont.)

Hall A		Hall B	
8:00-10:40	Parallel Session 4A - Genetics Methods (Cont.) Chair: Gil Atzmon & Yehuda Assaraf, Israel	Parallel Session 4B - Cancer Genetics Risk Identification (Cont.) <b>ENDORSED BY ECP: EUROPEAN CANCER PREVENTION</b> Chair: Jaak Janssens, Belgium	
09:40	CALLING VARIANTS - WHAT IS THE GOLD STANDARD? Gil Atzmon, Israel	09:40	A CLINICAL DECISION SUPPORT TOOL TO PREDICT CANCER RISK FOR COMMONLY TESTED CANCER-RELATED GERMLINE MUTATIONS Danielle Braun, USA
10:00	EPITRANSCRIPTOMICS - A NEW LEVEL OF GENE EXPRESSION REGULATION Gidi Rechavi, Israel	09:50	USE OF WHOLE TRANSCRIPTOME DATA FROM ORAL SQUAMOUS CELL CARCINOMA FOR POSSIBLE IMMUNOTHERAPEUTIC TARGETS Bidyut Roy, India
10:20	IDENTIFICATION OF TUMOR-SUPPRESSIVE AND ONCOGENIC REGULATORY ELEMENTS IN THE HUMAN GENOME USING CRISPR-BASED FUNCTIONAL GENOMIC SCREENS Ran Elkon, Israel	10:00	A TALE OF TWO LYNCHES Gili Reznick Levi, Israel
10:30	STUDYING THE INTERPLAY BETWEEN MET-TYROSINE KINASE AND P53 SIGNALING AND MODIFIER GENES THAT DICTATE TISSUE ORIGIN OF TUMOR Nizan Cauzmer, Israel	10:10	THE CENTENARIAN EPIGENOME - AN ENIGMATIC ENVIRONMENT-GENOME CROSSTALK UNDERLYING THE LONGEVITY MECHANISM Danielle Gutman, Israel
10:40	Coffee, poster viewing and visit the exhibition		
11:00-13:40	Plenary Session 5 - Cancer Genetics <b>JOINT SESSION WITH ASCO: AMERICAN SOCIETY OF CLINICAL ONCOLOGY</b> Chairs: Clifford Hudis, USA & Raphael Catane, Israel		
11:00	FOUNDER PATHOGENIC VARIANTS FOR COLORECTAL CANCER Stephen Gruber, USA	10:20	IDENTIFICATION OF TWELVE NEW SUSCEPTIBILITY LOCI FOR DIFFERENT HISTOTYPES OF EPITHELIAL OVARIAN CANCER Roberta Ness, USA
11:20	PROSTATE CANCER GENETICS Kathleen A. Cooney, USA	10:30	End of Session
11:40	IDENTIFYING NOVEL GENETIC SUSCEPTIBILITY LOCI FOR BREAST AND COLORECTAL CANCER: RESULTS FROM LARGE CONSORTIA OF ASIANS Wei Zheng, USA		
12:00	THE SPECTRUM OF BRCA1 AND BRCA2 PATHOGENIC SEQUENCE VARIANTS IN MIDDLE EASTERN, NORTH AFRICAN, AND SOUTH EUROPEAN COUNTRIES Eitan Friedman, Israel		
12:20	GENETICS OF PANCREATIC CANCER Talía Golan, Israel		
12:40	GERMLINE LYSINE-SPECIFIC DEMETHYLASE 1 MUTATIONS CONFER SUSCEPTIBILITY TO MULTIPLE MYELOMA Steven Lipkin, USA		
13:00	CANCER EPIGENETICS – ONCOHISTONES AND BEYOND Jacek Majewski, Canada		
13:20	MOLECULAR LANDSCAPE IN METASTATIC COLORECTAL CANCER Heinz Josef Lenz, USA		
13:40	Lunch, poster viewing and visit the exhibition		
14:40-16:30	Plenary Session 6 - Socio-Economic and Cultural Aspects of Genomic Medicine Chair: Dhavendra Kumar, UK		
14:40	SOCIO-CULTURAL ASPECTS OF GENETIC TESTING Dhavendra Kumar, UK		
15:00	CHOICE IN THE ERA OF ADVANCED GENOMIC TECHNOLOGIES Shiri Shkedi-Rafid, Israel		
15:20	ROUND TABLE DISCUSSION: RELIGIONS AND GENETIC TESTING Father Fuad Dagher, Imam Omar Kayal, Suleman Khativ, Rabbi Shabtai A. Rappoport, Israel		
16:20	THE EFFECT OF AMOUNT OF GENOMIC FEEDBACK ON WORRY, EFFICACY AND INTEREST IN FUTURE UPDATES Efrat Neter, Israel		
16:30	End of day's sessions		



Friday, October 5, 2018

8:00-9:40	<b>Plenary Session 7 - Genomic Medicine</b> Chair: Alan Shuldiner, USA & Yaakov Naparstek, Israel
08:00	PHARMACOGENETICS – GENERAL CONCEPTS AND CLINICAL IMPLICATIONS <b>Ronen Loebstein</b> , Israel
08:20	PHARMACO-OMICS OF MAJOR DEPRESSIVE DISORDER <b>Richard Weinshilboum</b> , USA
08:40	FOUNDER POPULATIONS FOR DISCOVERY AND THERAPEUTIC DEVELOPMENT <b>Nehal Gosalia</b> , USA
09:00	IMPLEMENTING GENOMIC MEDICINE IN PRIMARY CARE CLINICS IN ISRAEL <b>Gad Rennert</b> , Israel
09:20	MAKING EVOLUTIONARY SENSE OF PERSONAL GENOME VARIATION <b>Olivier Lichtarge</b> , USA
09:40	Coffee & poster viewing
10:10-12:30	<b>Plenary Session 8 - Cancer Genetics: Breast Cancer</b> <b>ENDORSED BY BCRF: BREAST CANCER RESEARCH FOUNDATION</b> Chairs: Vered Stearns, USA & Bella Kaufman, Israel
10:10	VACCINE AGAINST hTERT FOR BRCA1/2 <b>Susan Domchek</b> , USA
10:30	PARP INHIBITORS IN BRCA MUTATION CARRIERS WITH BREAST CANCER <b>Nadine Muskatel Tung</b> , USA
10:50	TRANSLATING GENOMICS TO PRECISION THERAPY FOR BREAST CANCER AND BRAIN METASTASIS <b>Sofia Merajver</b> , USA
11:10	GENE METHYLATION AS A MARKER OF BREAST CANCER RISK AND A TARGET FOR PREVENTION <b>Vered Stearns</b> , USA
11:30	CANCER SUSCEPTIBILITY GENE DISCOVERY AND POPULATION TESTING IN THE ASHKENAZIM <b>Kenneth Offit</b> , USA
11:50	BREAST CANCER PHARMACOGENOMICS: AN EXAMPLE OF INDIVIDUALIZED THERAPY BY REPURPOSING DNMT DEMETHYLATING AGENTS. <b>Liewei Wang</b> , USA
12:10	SELINA – CLINICAL TRIAL ON LOWERING THE RISK OF MALIGNANCIES BY OPTIMIZING SELENIUM LEVELS IN FEMALES IN FEMALES FROM FAMILIES WITH HEREDITARY BREAST CANCER* <b>Jan Lubinski</b> , Poland
12:20	INVESTIGATING A FOUNDER FRENCH CANADIAN POPULATION TO DEFINE THE GENETIC ARCHITECTURE OF MODERATE-HIGH RISK OVARIAN CANCER PREDISPOSING ALLELES <b>Patricia Tonin</b> , Canada
12:30	CLOSING REMARKS