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## RESEARCH AWARDS 2013-2014

For the 2013/2014 funding year, ICRF is supporting 82 grants at a total of \$3,063,332. This is broken down as follows:

4 L. & S. Mark Initiative for Ovarian/Uterine Cancer

3 Acceleration Grants

11 Research Professorships

1 Clinical Research Career Development Award

26 Research Career Development Awards (RCDAs)

1 B. S. Goodman Endowed RCDA for Pancreatic Cancer

28 Project Grants

6 Postdoctoral Fellowships

2 Gesher Awards

With the 2013/2014 grants, ICRF's funding has now reached 2,021 grants totaling \$48,908,332.

Among the areas of cancer research directly sponsored by ICRF in 2013/2014 are: studies in bone, brain, breast, colorectal, lung, oral, ovarian, pancreatic, prostate, and skin cancers; anticancer drug mechanisms, drug resistance, and targeted therapy; development of new diagnostic imaging techniques; leukemia, lymphoma, blood cells, and tumor blood vessel growth (angiogenesis); bone marrow transplantation; stem cell reprogramming; expression, regulation, and mutation of genes; growth factors, growth control, and tumor metastasis; the relationship between inflammation and cancer, diet and cancer, and obesity, diabetes and cancer; immunology and immunotherapy; protein interactions; oncogenes and tumor suppressor genes, such as p53; and programmed cell death (apoptosis).

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>LEN &amp; SUSAN MARK INITIATIVE FOR OVARIAN AND UTERINE/MMMT CANCERS</b>	<b>Sol Efroni, Ph.D.</b>	Bar-Ilan University	<i>A Single Mutation in BCL-2 as a Biomarker for Paclitaxel Treatment Response</i>
	<b>Rotem Karni, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Discovery of Transcriptomic Changes that Lead to Ovarian Cancer Progression</i>
	<b>Keren Levanon, M.D., Ph.D.</b>	Chaim Sheba Medical Center	<i>Novel Approaches for Early-Detection Biomarkers for Ovarian Cancer</i>
	<b>Varda Rotter, Ph.D.</b>	Weizmann Institute of Science	<i>Oncogenic Mutant p53 Gain of Function in Ovarian Cancer Stem Cells</i>
<b>ACCELERATION GRANTS</b>	<b>Martin Kupiec, Ph.D.</b>	Tel-Aviv University	<i>Ribosomal Profiling of the Response to DNA Damage and Telomere Attrition</i>
	<b>Eran Segal, Ph.D.</b>	Weizmann Institute of Science	<i>Cracking the Regulatory Code of Cancer Development in Human</i>
	<b>Michal Sharon, Ph.D.</b>	Weizmann Institute of Science	<i>Investigating the Molecular Details of the 20S Proteasomal Degradation Pathway</i>
<b>PROFESSORSHIPS</b>	<b>Yinon Ben-Neriah, M.D., Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Dissecting the Role of the Casein Kinase I Family in Gut Physiology and Cancer</i>
	<b>Yehudit Bergman, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Genetic and Epigenetic Mechanisms Involved in Oct-3/4-Induced Malignant Transformation</i>
	<b>Howard Cedar, M.D., Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Regulation of Gene Expression in Animal Cells</i>
	<b>Aaron Ciechanover, M.D., D.Sc.</b>	Technion, Israel Institute of Technology	<i>Ubiquitin-Mediated Generation of NF-κB: Mechanisms and Involvement in Carcinogenesis</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROFESSORSHIPS</b> <i>(continued)</i>	<b>Alberto Gabizon, M.D., Ph.D.</b>	Shaare Zedek Medical Center	<i>Development of Targeted Liposome Formulations of Anti-Cancer Agents</i>
	<b>Avram Hershko, M.D., Ph.D.</b>	Technion, Israel Institute of Technology	<i>Roles of the Ubiquitin System in the Control of Cell Division and in Cancer</i>
	<b>Eli Keshet, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Tumor Neovascularization Assisted by VEGF-Recruited and Educated Myeloid Cells</i>
	<b>Ofer Mandelboim, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Learning from Viruses: MicroRNAs Controlling Tumor Cell Attack by NK Cells</i>
	<b>Yosef Shiloh, Ph.D.</b>	Tel-Aviv University	<i>New Branches in the ATM-Mediated DNA Damage Response</i>
	<b>Israel Vlodaysky, Ph.D.</b>	Technion, Israel Institute of Technology	<i>Targeting Heparanase, One Molecule with Multiple Functions in Human Cancer Progression</i>
	<b>Yosef Yarden, Ph.D.</b>	Weizmann Institute of Science	<i>Control Circuits of Growth Factor Signaling: Relevance to Cancer Progression and Therapy</i>
<b>CLINICAL RESEARCH CAREER DEVELOPMENT AWARD</b>	<b>Einav Nili Gal-Yam, M.D., Ph.D.</b>	Chaim Sheba Medical Center	<i>Dissecting Tumor Heterogeneity through Epigenomic Characterization</i>
<b>BARBARA S. GOODMAN ENDOWED RCDA FOR PANCREATIC CANCER</b>	<b>Ziv Gil, M.D., Ph.D.</b>	Rambam Health Care Campus	<i>Role of Nerve Growth Factors in Neuropathic Pain and Invasion of Pancreatic Cancer</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
RESEARCH CAREER DEVELOPMENT AWARDS (RCDAs)	Rami Aqeilan, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Molecular and Cellular Function of Tumor Suppressor Wwox in Osteosarcoma</i>
	Dalit Barkan, Ph.D.	University of Haifa	<i>Characterizing the Role of LOXL2 in Breast Cancer Recurrence</i>
	Shay Ben-Aroya, Ph.D.	Bar-Ilan University	<i>Isolation of Proteins Involved in DNA Repair, via their Proteasome Mediated Degradation</i>
	Michael Berger, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Targeting T-Lymphocyte Quiescence as a Novel Treatment for T-ALL</i>
	Tal Burstyn-Cohen, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Molecular and Cellular Function of Protein S in Cancer</i>
	Neta Erez, Ph.D.	Tel-Aviv University	<i>Characterizing the Role of the Micro-environment in Facilitating Breast Cancer Metastasis</i>
	Sara Eyal, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Non-Invasive In Vivo Optial Imaging of Cancer Multidrug Resistance</i>
	Zvi Fridlender, M.D.	Hadassah Medical Organization	<i>Characterization and Polarization of Tumor Associated Neutrophils in Thoracic Malignancies</i>
	Tamar Geiger, Ph.D.	Tel-Aviv University	<i>Elucidation of Proteome Networks in Breast Cancer – Toward Triple-Negative Specific Therapy</i>
	Hava Gil-Henn, Ph.D.	Bar-Ilan University	<i>Regulation of Invadopodia Formation and Function by Tyrosine Kinase Pyk2</i>
Shoshana Greenberger, M.D., Ph.D.	Chaim Sheba Medical Center	<i>TGFβ Pathway in Infantile Hemangioma Involution</i>	

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>RCDAs</b> <i>(continued)</i>	<b>Yaqub Hanna, M.D., Ph.D.</b>	Weizmann Institute of Science	<i>Uncovering the Role of Oncogenic Pathways in the Induction and Maintenance of Pluripotency</i>
	<b>Adi Inbal, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>The Role of Lmo2 in Angiogenesis</i>
	<b>Carmit Levy, Ph.D.</b>	Tel-Aviv University	<i>Exploring miRNA Role in Melanomagenesis towards miR-Based Therapeutic Approaches</i>
	<b>Dan Levy, Ph.D.</b>	Ben-Gurion University of the Negev	<i>Lysine Methylation in Cancer</i>
	<b>Gal Markel, M.D., Ph.D.</b>	Chaim Sheba Medical Center	<i>Endogenous Cellular Regulation Mechanisms of CEACAM1 Expression in Melanoma</i>
	<b>Ariel Munitz, Ph.D.</b>	Tel-Aviv University	<i>The Role of Paired Immunoglobulin-Like Receptor B (PIR-B) in Colorectal Cancer</i>
	<b>Niv Papo, Ph.D.</b>	Ben-Gurion University of the Negev	<i>Engineering Antagonistic Ligands as Tools for Cancer Imaging and Therapy</i>
	<b>Marjorie Pick, Ph.D.</b>	Hadassah Medical Organization	<i>Generating Functional Platelets from Human Pluripotent Stem Cells</i>
	<b>Rachaela Popovtzer, Ph.D.</b>	Bar-Ilan University	<i>Basic Research Underlining Cancer Detection with Molecularly Targeted Gold Nanoparticles</i>
	<b>Oren Schuldiner, Ph.D.</b>	Weizmann Institute of Science	<i>The Role of the Tumor Suppressor Gene UVRAG in Developmental Neuronal Remodeling</i>
	<b>Yuval Shaked, Ph.D.</b>	Technion, Israel Institute of Technology	<i>Developing an Approach to Identify New Factors Promoting Cancer Resistance to Therapy</i>
	<b>Noam Shomron, Ph.D.</b>	Tel-Aviv University	<i>Combining Genetic and Epigenetic Markers: How SNPs and miRNAs Determine Cancer Development</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>RCDAs</b> <i>(continued)</i>	<b>Ran Taube, Ph.D.</b>	Ben-Gurion University of the Negev	<i>P-TEFb and SEC as Targets for Treating MLL – Role in Promoting Leukemogenesis</i>
	<b>Reuven Wiener, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>Structure-Function Study of MCPIP1 to Understand its Role in Cancer</i>
	<b>Karina Yaniv, Ph.D.</b>	Weizmann Institute of Science	<i>The Role of Lipoproteins in Tumor-Related Angiogenesis, Lymphangiogenesis and Metastasis</i>
<b>POSTDOCTORAL FELLOWSHIPS</b>	<b>Moshe Biton, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>The Role of MicroRNAs in OCR-3/4-Mediated Oncogenicity</i>
	<b>Noa Lamm-Shalem, Ph.D.</b>	Hebrew University of Jerusalem	<i>Folate Deficiency Enhances Oncogene-Induced Genomic Instability and Tumorigenicity</i>
	<b>Daniel Ronen, Ph.D.</b>	Hebrew University of Jerusalem	<i>Modeling Early Cancer Development using Human Induced Pluripotent Stem Cells Lacking BRCA1</i>
	<b>Yogev Sela, Ph.D.</b>	Weizmann Institute of Science	<i>The Role of Lipoproteins in Tumor-Related Angiogenesis and Metastasis</i>
	<b>Manuela Vecsler, Ph.D.</b>	Bar-Ilan University	<i>Revealing the Dynamics of E2F Circuitry in Normal Proliferating Cells and Upon DNA Damage</i>
	<b>Ayala Tovy, Ph.D.</b>	Weizmann Institute of Science	<i>The Interplay between p53 and Dmt1 and their Effect on Transcription</i>
<b>GESHER AWARDS</b>	<b>Ari Meerson, Ph.D.</b>	MIGAL-Galilee Research Institute	<i>microRNAs as a Functional Link between Obesity, Diabetes, and Cancer</i>
	<b>Kobi Simpson-Lavi, Ph.D.</b>	Hebrew University of Jerusalem	<i>The Role of Aup1 in Signaling from Mitochondria to the Nucleus</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROJECT GRANTS</b>	<b>Jonathan Axelrod, Ph.D.</b>	Hadassah Medical Organization	<i>The Influence of IL-6, STAT3 and Gender in Chronic Hepatitis-Associated Liver Cancer</i>
	<b>Michal Baniyash, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>The Role of Myeloid Derived Suppressor Cells in Ulcerative Colitis and Colorectal Cancer</i>
	<b>Itai Benhar, Ph.D.</b>	Tel-Aviv University	<i>Studying New Design Principles for Bispecific IgGs</i>
	<b>Moran Benhar, Ph.D.</b>	Technion, Israel Institute of Technology	<i>Thioredoxin and Cysteine-Based Redox Regulation in Lung Cancer</i>
	<b>Ittai Ben-Porath, Ph.D.</b>	Hebrew University/ Hadassah Medical School	<i>EZH2 and and Bi-Lineage tumor Cell Identity as Drivers of Aggressive Breast Cancer</i>
	<b>Avri Ben-Ze'ev, Ph.D.</b>	Weizmann Institute of Science	<i>Downstream Targets of L1-Mediated Colon Cancer Metastasis</i>
	<b>Michal Besser, Ph.D.</b>	Chaim Sheba Medical Center	<i>Predicting and Controlling Clinical Response of Melanoma Patients Receiving T Cell Therapy</i>
	<b>Yoram Cohen, M.D.</b>	Chaim Sheba Medical Center	<i>Personalized Approach to Increase the Safety of Ovarian Transplantation in Cancer Patients</i>
	<b>Malka Cohen-Armon, D.Sc.</b>	Tel-Aviv University	<i>An Exclusive Eradication of Human Cancer Cells by Extra-Centrosome De-Clustering</i>
	<b>Shlomi Constantini, M.D.</b>	Tel-Aviv Sourasky Medical Center	<i>Semi-Automated Segmentation and Sub Classification of Pediatric Brain Tumors</i>
	<b>Liat Drucker, Ph.D.</b>	Tel-Aviv University	<i>Myeloma and Bone Marrow Mesenchymal Stem Cells Crosstalk: Effect on Translation Initiation</i>
<b>Michael Elkin, Ph.D.</b>	Hadsassah Medical Organization	<i>Role of Heparanase in Coupling Inflammation and Tumorigenesis in Pancreas</i>	

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROJECT GRANTS</b>  <i>(continued)</i>	<b>Ari Elson, Ph.D.</b>	Weizmann Institute of Science	<i>Determining the Role of PTPRO in Chronic Lymphocytic Leukemia</i>
	<b>Deborah Fass, Ph.D.</b>	Weizmann Institute of Science	<i>Disulfide Catalyst as a Candidate for Cancer Therapy Targeting Tumor-Stromal Interactions</i>
	<b>Lilach Gilboa, Ph.D.</b>	Weizmann Institute of Science	<i>Joint Control of Dynamic Cell Protrusions by Stat and Erk Signaling</i>
	<b>Doron Ginsberg, Ph.D.</b>	Bar-Ilan University	<i>Characterization of Long Non-Coding RNAs Regulated by the Transcription Factor E2F1</i>
	<b>Yoav Henis, Ph.D.</b>	Tel-Aviv University	<i>Interactions and Endocytosis of Growth-Inhibitory Receptors</i>
	<b>Jeremy Kark, M.D., Ph.D.</b>	Hadassah Medical Organization	<i>Adolescent Precursors of Adult Cancer in a Cohort of 2,100,000 Israeli Males and Females</i>
	<b>Sara Lavi, Ph.D.</b>	Tel-Aviv University	<i>The Role of PPM1A, the Negative Regulator of Angiogenesis, in Granulocytes Polarization</i>
	<b>Gabriel Nussbaum, M.D., Ph.D.</b>	Hebrew University of Jerusalem	<i>The Contribution of Chronic Oral Inflammation to Carcinogenesis and Tumor Chemoresistance</i>
	<b>Amir Orian, M.D., Ph.D.</b>	Technion, Israel Institute of Technology	<i>STUbl-Dependent Oncogenes Activation in Cancer – from Mechanisms to Diagnostics</i>
	<b>Jacob Rachmilewitz, Ph.D.</b>	Hadassah Medical Organization	<i>Monocytes Promote Cellular Adaptation to CAN Damage: A Barrier Against Carcinogenesis?</i>
<b>Rina Rosin-Arbesfeld, Ph.D.</b>	Tel-Aviv University	<i>How does Carboxypeptidase E (CPE) affect Wnt Signaling?</i>	



AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROJECT GRANTS</b>  <i>(continued)</i>	<b>Eytan Ruppin, Ph.D.</b>	Tel-Aviv University	<i>Drug Targets and Biomarkers Prediction via a Computational Study of Breast Cancer Metabolism</i>
	<b>Idit Shachar, Ph.D.</b>	Weizmann Institute of Science	<i>CD84, as a Novel Target for Blockade of CLL Survival</i>
	<b>Ron Shamir, Ph.D.</b>	Tel-Aviv University	<i>Computing Cancer Biomarkers by Joint Analysis of Expression Profiles and Protein Networks</i>
	<b>Boaz Tirosh, Ph.D.</b>	Hebrew University of Jerusalem	<i>Exploiting ER Stress/mTOR Synthetic Lethality for B Cell Tumors Treatment</i>
	<b>Ilan Volovitz, Ph.D.</b>	Tel-Aviv Sourasky Medical Center	<i>High Throughput Method to Identify Immunodominant T-Cell Activating Antigens from Tumors</i>

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