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## **RESEARCH AWARDS 2012-2013**

**For the 2012/2013 funding year, ICRF is supporting 76 grants at a total of \$2,730,000. This is broken down as follows:**

- 1 Distinguished Chair**
- 1 Acceleration Grant**
- 10 Research Professorships**
- 1 Clinical Research Career Development Award**
- 19 Research Career Development Awards**
- 34 Project Grants**
- 10 Fellowships**

**With the 2012/2013 grants, ICRF's funding has now reached 1,939 grants totaling \$45,845,000.**

**Among the areas of cancer research directly sponsored by ICRF in 2012/2013 are: studies in bone, brain, breast, colorectal, gastrointestinal, liver, lung, kidney, ovarian, pancreatic, prostate, and uterine cancers; anticancer drug mechanisms, multi-drug resistance, and targeted therapy; leukemia, lymphoma, blood cells, and tumor blood vessel growth (angiogenesis); bone marrow transplantation; expression, regulation, and mutation of genes; growth factors, growth control, and tumor metastasis; viruses, immunotherapy, and vaccine development; protein interactions; oncogenes and tumor suppressor genes, such as p53; and programmed cell death (apoptosis).**

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>DISTINGUISHED CHAIR</b>	<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>ACCELERATION GRANT</b>	<b>Eran Segal, Ph.D.</b>	Weizmann Institute of Science	<i>Cracking the Regulatory Code of Cancer Development in Human</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-<math>\kappa</math>B: Mechanisms and Involvement in Carcinogenesis</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>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 Vlodavsky, Ph.D.</b>	Technion, Israel Institute of Technology	<i>Targeting Heparanase, One Molecule with Multiple Functions in Human Cancer Progression</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROFESSORSHIPS</b> <i>(continued)</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>Keren Levanon, M.D., Ph.D.</b>	Chaim Sheba Medical Center	<i>Genetic Events Underlying Serous Ovarian Carcinogenesis</i>
<b>BARBARA S. GOODMAN ENDOWED RCDA FOR PANCREATIC CANCER</b>	<b>Ziv Gil, M.D., Ph.D.</b>	Tel-Aviv Sourasky Medical Center	<i>Role of Nerve Growth Factors in Neuropathic Pain and Invasion of Pancreatic Cancer</i>
<b>RESEARCH CAREER DEVELOPMENT AWARDS</b>  <b>(RCDAs)</b>	<b>Rami Aqeilan, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Molecular and Cellular Function of Tumor Suppressor Wwox in Osteosarcoma</i>
	<b>Eli Arama, Ph.D.</b>	Weizmann Institute of Science	<i>A Novel Ubiquitin Pathway for the Regulation of Caspase Activation/Apoptosis in Drosophila</i>
	<b>Shay Ben-Aroya, Ph.D.</b>	Bar-Ilan University	<i>Isolation of Proteins Involved in DNA Repair, via their Proteasome Mediated Degradation</i>
	<b>Galia Blum, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Detection and Targeted Therapy of Cancer using Photodynamic Quenched Activity Based Probes</i>
	<b>Neta Erez, Ph.D.</b>	Tel-Aviv University	<i>Characterizing the Role of the Micro-environment in Facilitating Breast Cancer Metastasis</i>
	<b>Zvi Fridlender, M.D.</b>	Hadassah Medical Organization	<i>Characterization and Polarization of Tumor Associated Neutrophils in Thoracic Malignancies</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>RCDAs</b> <i>(continued)</i>	<b>Tamar Geiger, Ph.D.</b>	Tel-Aviv University	<i>Elucidation of Proteome Networks in Breast Cancer – Toward Triple-Negative Specific Therapy</i>
	<b>Hava Gil-Henn, Ph.D.</b>	Bar-Ilan University	<i>Regulation of Invadopodia Formation and Function by Tyrosine Kinase Pyk2</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>Rotem Karni, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Characterization of hnRNP A2/B1 as Breast Cancer Metastasis Inducer</i>
	<b>Carmit Levy, Ph.D.</b>	Tel-Aviv University	<i>Exploring miRNA Role in Melanomagenesis towards miR-Based Therapeutic Approaches</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>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>	

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>RCDAs</b> <i>(continued)</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>PROJECT GRANTS</b>	<b>Osnat Ashur-Fabian, Ph.D.</b>	Tel-Aviv University	<i>Antagonizing Thyroid Hormones-avb3 Interaction: A Novel Therapeutic Approach in Myeloma</i>
	<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>Haim Azhari, D.Sc.</b>	Technion, Israel Institute of Technology	<i>Contrast-Material Induced Nonlinearity Through-Transmission Ultrasonic Breast Imaging</i>
	<b>Michal Baniyash, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>SNX9-TCR Crosstalk under Normal and Chronic Inflammatory Conditions: Implication in Cancer</i>
	<b>Ittai Ben-Porath, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>EZH2 as a Regulator of the Stem/Progenitor-Like Identity of Basal-Like Breast Cancers</i>
	<b>Avri Ben-Ze'ev, Ph.D.</b>	Weizmann Institute of Science	<i>Downstream Targets of L1-Mediated Colon Cancer Metastasis</i>
	<b>Limor Broday, Ph.D.</b>	Tel-Aviv University	<i>Effects of SUMO Protease on Developmental Pathways with Oncogenic Potential</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>Benjamin Dekel, M.D., Ph.D.</b>	Chaim Sheba Medical Center	<i>Deciphering the Role of WNT Signaling in Novel Wilms' Tumor Stem Cells</i>	

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROJECT GRANTS</b>  <i>(continued)</i>	<b>Rivka Dikstein, Ph.D.</b>	Weizmann Institute of Science	<i>Mechanistic Basis of Cancer-Associated Persistent NF-kappaB Activity</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>Amir Eden, Ph.D.</b>	Hebrew University of Jerusalem	<i>The Molecular Basis of Snf5 Mediated Tumorigenesis – A Key Role for IGFR-AKT Signaling</i>
	<b>Ari Elson, Ph.D.</b>	Weizmann Institute of Science	<i>Determining the Role of of PTPRO in Chronic Lymphocytic Leukemia</i>
	<b>David Engelberg, Ph.D.</b>	Hebrew University of Jerusalem	<i>Revealing the Role of the p38 MAPK in Cell Death Induced by Chemotherapy</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>Michael Friedman, Ph.D.</b>	Hebrew University of Jerusalem	<i>Development &amp; Pharmacokinetic Study of Local Sirolimus Systems for Oral Cancer Prevention</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>Gideon Gross, Ph.D.</b>	MIGAL-Galilee Technology Center	<i>A Combined Genetic Approach for Improving Adoptive T Cell Therapy of Cancer</i>
<b>Yoav Henis, Ph.D.</b>	Tel-Aviv University	<i>Interactions and Endocytosis of Growth-Inhibitory Receptors</i>	

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROJECT GRANTS</b>  <i>(continued)</i>	<b>Shai Izraeli, M.D.</b>	Chaim Sheba Medical Center	<i>Modeling CRLF2 and JAK2 Signaling in Leukemia Initiation</i>
	<b>Nathan Karin, Ph.D.</b>	Technion, Israel Institute of Technology	<i>The Role of CCR5 Ligands in Cancer of the Prostate</i>
	<b>Shulamit Katzav-Shapira, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Vav1: A Dr. Jekyll and Mr. Hyde Protein – Good for the Hematopoietic System, Bad for Cancer</i>
	<b>Martin Kupiec, Ph.D.</b>	Tel-Aviv University	<i>Telomere Length Control and Genome Stability</i>
	<b>Ami Navon, Ph.D.</b>	Weizmann Institute of Science	<i>Engineering a Novel Class of Proteasome Inhibitors for Treatment of Multiple Myeloma</i>
	<b>Amir Orian, M.D., Ph.D.</b>	Technion, Israel Institute of Technology	<i>Targeting the SUMO Pathway/RNF4 in Myeloma</i>
	<b>Ophry Pines, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Fumarate Hydratase: The Relationship between Primary Metabolism, DNA Damage, and Cancer</i>
	<b>Jacob Rachmilewitz, Ph.D.</b>	Hadassah Medical Organization	<i>Monocytes Promote Cellular Adaptation to CAN Damage: A Barrier Against Carcinogenesis?</i>
	<b>Shoshana Ravid, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>The Tumor Suppressor Lgl, A Regulator of Cell Polarity</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>	



AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
<b>PROJECT GRANTS</b> <i>(continued)</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>
<b>POSTDOCTORAL FELLOWSHIPS</b>	<b>Inbal Avraham-Davidi, Ph.D.</b>	Weizmann Institute of Science	<i>Elucidating the Role of Angptl3 in Early Tumor Lymphangiogenesis</i>
	<b>Osnat Bartok, Ph.D.</b>	Hebrew University of Jerusalem	<i>Is the Onco-miR Bantam the Link between the Cell Cycle and the Circadian Clock?</i>
	<b>Moshe Biton, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>The Role of MicroRNAs in OCR-3/4-Mediated Oncogenicity</i>
	<b>Ela Elyada, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>The Role of p53 in Intestinal Stem Cell Biology</i>
	<b>Regina Golan-Gerstl, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Characterization of hnRNP A2/B1 as a Proto-Oncogene in Brain Cancer</i>
	<b>Noa Lamm-Shalem, Ph.D.</b>	Hebrew University of Jerusalem	<i>Folate Deficiency Enhances Oncogene-Induced Genomic Instability and Tumorigenicity</i>
	<b>Ariel Pribluda, Ph.D.</b>	Weizmann Institute of Science	<i>The Role of Ras and Rho Signaling in Defining a New Naïve Pluripotent State in Humans</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>Seth Salpeter, Ph.D.</b>	Hebrew University/Hadassah Medical School	<i>Investigating Cysteine Cathepsin Activity in Metastatic Cancer using Activity Based Probes</i>
	<b>Ayala Tovy, Ph.D.</b>	Weizmann Institute of Science	<i>The Interplay between p53 and Dmt1 and their Effect on Transcription</i>