



295 Madison Avenue, Suite 1030, New York, NY 10017-7754
Tel 212.969.9800 • fax 212.969.9822 • toll free 888.654.ICRF (4273)
e-mail mail@icrfny.org • web site www.icrfonline.org

RESEARCH AWARDS 2016-2017

For the 2016 / 2017 funding year, ICRF is supporting 72 grants at a total of \$3,857,000. This is broken down as follows:

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| 4 International Collaboration Grants | 1 B. S. Goodman Endowed RCDA for Pancreatic Cancer |
| 1 L. & S. Mark Initiative for Ovarian/Uterine Cancer | 18 Project Grants |
| 3 Acceleration Grants | 2 Gesher Awards |
| 12 Research Professorships | 1 Postdoctoral Fellowship |
| 3 Clinical Research Career Development Awards | 1 Booster Grant |
| 21 Research Career Development Awards (RCDAs) | |
| <i>Jacki and Bruce Barron Cancer Research Scholars's Program (A Partnership between ICRF and City of Hope)</i> | |
| 4 International Collaboration Grants | 1 Six-Mo. Sabbatical for an Israeli Scientist at City of Hope |

With the 2016 / 2017 grants, ICRF's funding has now reached 2,278 grants totaling \$59,932,000.

Among the areas of cancer research directly sponsored by ICRF in 2016 / 2017 are: studies in bone, brain, breast, colorectal, intestinal, lung, ovarian, pancreatic, pediatric, skin, and vascular 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); cancer stem cells and cellular reprogramming; expression, regulation, and mutation of genes; tumor viruses; tumor metastasis; inflammation and cancer; immunology and immunotherapy; oncogenes and tumor suppressor genes, such as p53; cell-cycle regulation, natural killer cells, programmed cell death (apoptosis), and the DNA damage response.

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
JACKI & BRUCE BARRON CANCER RESEARCH SCHOLARS' PROGRAM – <i>(A Partnership between ICRF and City of Hope)</i>	Rami Aqeilan, Ph.D. (PI) and Victoria Seewaldt, M.D. (Co-PI)	Hebrew University/ Hadassah Medical School and City of Hope	<i>WWOX Loss Activates Aerobic Glycolysis in TNBC</i>
	Shai Izraeli, M.D. (PI) and Hua E. Yu, Ph.D. (Co-PI)	Chaim Sheba Medical Center and City of Hope	<i>Developing Novel Therapeutic Approaches for High Risk Acute Lymphoblastic Leukemia</i>
	Gad Rennert, M.D., Ph.D. (PI) and Jeffrey Weitzel, M.D. (Co-PI)	Carmel Medical Center and City of Hope	<i>Spectrum of Germline P53 and Somatic Genomic Variants in Israeli Breast Cancer Patients</i>
INTERNATIONAL COLLABORATION GRANTS	Ravid Straussman, M.D., Ph.D. (PI) and Dan Raz, M.D. (Co-PI)	Weizmann Institute of Science and City of Hope	<i>Characterization of the Lung Cancer Microbiome and its Effects on Response to Treatment</i>
SIX-MONTH SABBATICAL at CITY OF HOPE	Abraham Domb, Ph.D. <i>(in the laboratory of Jacob Berlin, Ph.D. at City of Hope)</i>	Hebrew University of Jerusalem	<i>Distribution and Diffusion of Nanoparticles in Tumoral Tissue</i>
INTERNATIONAL COLLABORATION GRANTS	Ittai Ben-Porath, Ph.D. (PI) and Francis Rodier, Ph.D. (Co-PI)* <i>* to begin in 2017-2018</i>	Hebrew University/ Hadassah Medical School and Université de Montréal	<i>Senescence of the Tumor Niche – Effects on Cancer Growth and Drug Response</i>
	Sol Efroni, Ph.D. (PI) and Francisco Quintana, Ph.D. (Co-PI)	Bar-Ilan University and Brigham & Women's Hospital	<i>miR-29b and miR-9 to Target Glioblastoma Multiform via AHR and p38 Network Modulation</i>
	Ephrat Levy-Lahad, M.D. (PI) and Mary-Claire King, Ph.D. (Co-PI)	Shaare Zedek Medical Center and University of Washington	<i>Genomic Analysis of Inherited Breast and Ovarian Cancer for Israeli Women of all Ancestries</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
INTERNATIONAL COLLABORATION GRANTS <i>(continued)</i>	Uri Nir, Ph.D. (PI) and Eldad Zacksenhaus, Ph.D. (Co-PI)	Bar-Ilan University and Toronto General Hospital	<i>Studying the Role of Mitochondrial Reprogramming by Fer/FerT in Tumor Metastasis</i>
LEN & SUSAN MARK INITIATIVE FOR OVARIAN AND UTERINE/MMMT CANCERS	Varda Rotter, Ph.D.	Weizmann Institute of Science	<i>Ovarian Cancer Therapeutics Mediated by Modulation of Mutant p53 Protein into Wild Type Conformation</i>
ACCELERATION GRANTS	Nabieh Ayoub, Ph.D.* <i>* to begin in 2017-2018</i>	Technion, Israel Institute of Technology	<i>Why Splicing Factors show Transient Accumulation at DNA Damage Sites: The Example of RBM6 Protein</i>
	Ruth Sperling, Ph.D.	Hebrew University of Jerusalem	<i>Nuclear microRNA in Cancer</i>
	Aviad Zick, M.D., Ph.D.	Hadassah Medical Organization	<i>Tissue Specific Methylation Patterns of Circulating DNAs as Biomarkers for Neurotoxicity</i>
PROFESSORSHIPS	Michal Baniyash, Ph.D.	Hebrew University of Jerusalem	<i>The Role of Immunosuppressive Cells and Gut Microbiota in Inflammatory Bowel Disease and Colorectal Cancer: Clinical Implications</i>
	Yinon Ben-Neriah, M.D., Ph.D.	Hebrew University/ Hadassah Medical School	<i>CKI Regulation in Normal and Malignant Stem Cells</i>
	Yehudit Bergman, Ph.D.	Hebrew University/ Hadassah Medical School	<i>The Role of Epigenetic Regulation in Stem Cells and Cancer</i>
	Howard Cedar, M.D., Ph.D.	Hebrew University/ Hadassah Medical School	<i>Regulation of Gene Expression in Animal Cells</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
PROFESSORSHIPS <i>(continued)</i>	Aaron Ciechanover, M.D., D.Sc.	Technion, Israel Institute of Technology	<i>Ubiquitin-Mediated Generation of NF-κB: Mechanisms and Involvement in Carcinogenesis</i>
	Avram Hershko, M.D., Ph.D.	Technion, Israel Institute of Technology	<i>Roles of the Ubiquitin System in the Control of Cell Division and in Cancer</i>
	Eli Keshet, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Tumor Neovascularization Assisted by VEGF-Recruited and Educated Myeloid Cells</i>
	Martin Kupiec, Ph.D.	Tel Aviv University	<i>Dissecting the Molecular Functions of Elg1/ATAD5</i>
	Ofer Mandelboim, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Learning from Viruses: MicroRNAs Controlling Tumor Cell Attack by NK Cells</i>
	Yosef Shiloh, Ph.D.	Tel Aviv University	<i>The ATM-Mediated DNA Damage Response: Moving between the Forest and the Trees</i>
	Israel Vlodavsky, Ph.D.	Technion, Israel Institute of Technology	<i>Heparanase: From Basic Research to Therapeutic Applications</i>
	Yosef Yarden, Ph.D.	Weizmann Institute of Science	<i>Control Circuits of Growth Factor Signaling: Relevance to Cancer Progression and Therapy</i>
CLINICAL RESEARCH CAREER DEVELOPMENT AWARDS (CRCDAs)	Irit Ben-Aharon, M.D., Ph.D.	Rabin Medical Center	<i>Chemotherapy-Induced Vascular Toxicity - unraveling the Mechanisms, Minimizing the Effect</i>
	Ruth Perets, M.D., Ph.D.	Rambam Health Care Campus	<i>The Role of Fallopian Tube Lineage in Ovarian Cancer Pathogenesis</i>
	Amir Sonnenblick, M.D., Ph.D.	Hadassah Medical Organization	<i>Phosphorylated-STAT3 and Responsiveness to Breast Cancer Adjuvant Therapies</i>

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BARBARA S. GOODMAN ENDOWED RCDA FOR PANCREATIC CANCER	Moran Amit, M.D.	Rambam Health Care Campus	<i>Roles of the L1 Cell Adhesion Molecule in the Pathogenesis of Pancreatic Cancer</i>
RESEARCH CAREER DEVELOPMENT AWARDS (RCDAs)	Nabieh Ayoub, Ph.D.	Technion, Israel Institute of Technology	<i>Deciphering KDM4C (GASC1) Role in Carcinogenesis via Systematic Mapping of its Non-Histone Substrates</i>
	David Azoulay, Ph.D.	Western Galilee Hospital	<i>BDNF Gene Polymorphism and Protein Levels in Circulating Blood as Biomarkers for CIPN in Cancer Patients</i>
	Michael Blank, Ph.D.	Bar-Ilan University	<i>Investigating the Role of Smurf2 in DNA Damage Response and Anticancer Genotoxic Therapies</i>
	Shay Covo, Ph.D.	Hebrew University of Jerusalem	<i>Revealing the Role of Severe Genome Instability and Mitochondria in Drug Resistant Polyploidy Yeast</i>
	Neta Erez, Ph.D.	Tel Aviv University	<i>The Role of Fibroblasts in the Formation of a Permissive Metastatic Niche in Breast Cancer Metastasis</i>
	Dinorah Friedmann-Morvinski, Ph.D.	Tel Aviv University	<i>Reprogramming in Cancer and Novel Targets for Immunotherapy</i>
	Yaron Fuchs, Ph.D.	Technion, Israel Institute of Technology	<i>Apoptotic Regulation of Cancer Stem Cells</i>
	Roi Gazit, Ph.D.	Ben-Gurion University of the Negev	<i>Novel Models for Leukemias in Immune-Competent Mice</i>

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RCDAs <i>(continued)</i>	Gabi Gerlitz, Ph.D.	Ariel University Center of Samaria	<i>The Role of Global Chromatin Condensation in Melanoma Cell Migration</i>
	Zvi Granot, Ph.D.	Hebrew University of Jerusalem	<i>The Effect of VEGF on Neutrophil Function in the Context of Tumor Growth and Metastatic Progression</i>
	Yoni Haitin, Ph.D.	Tel Aviv University	<i>The Molecular Basis of KCNH Channels Regulation of Cellular Proliferation</i>
	Jacob Hanna, M.D., Ph.D.	Weizmann Institute of Science	<i>Novel Humanized Stem Cell Based Platforms for Modeling Human Disease and Cancer Development</i>
	Ayelet Lamm, Ph.D.	Technion, Israel Institute of Technology	<i>Identifying the Mechanisms by which Intracellular Transport affects Pancreatic Cancer Development</i>
	Nir London, Ph.D.	Weizmann Institute of Science	<i>Covalent Personalized Medicine - Targeting Oncogenic Mutations to Cysteine</i>
	Michael Milyavsky, Ph.D.	Tel Aviv University	<i>Isolation and Characterization of Novel Therapy Resistance Factors in Acute Myeloid Leukemia</i>
	Ariel Munitz, Ph.D.	Tel Aviv University	<i>Molecular Regulation of Eosinophil Activation in Colorectal Cancer</i>
	Vered Padler-Karavani, Ph.D.	Tel Aviv University	<i>Anti-Neu5Gc Antibodies for Cancer Therapeutics</i>
	Niv Pencovich, M.D., Ph.D.	Tel Aviv Sourasky Medical Center	<i>Genome-Wide Characterization of the Escape from Tumor Dormancy</i>
Meir Shamay, Ph.D.	Bar-Ilan University	<i>Methylation Signature of Herpes Viruses as a Diagnostic Tool for Viral-Associated Malignancies</i>	

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
RCDAs <i>(continued)</i>	Shiran Shapira, Ph.D.	Tel Aviv Sourasky Medical Center	<i>Humanized Anti-CD24 Antibody; A Potential Biology Tool for Cancer Immunotherapy</i>
	Amit Tzur, Ph.D.	Bar-Ilan University	<i>Elucidating the E2F1-E2F7/8 Circuitry in Single Proliferating- and DNA-Damaged Cells</i>
PROJECT GRANTS	Rami Aqeilan, Ph.D.* <i>* to begin in 2017-2018</i>	Hebrew University of Jerusalem	<i>Role of the WWOX Fragile Gene in the Development of Pancreatic Cancer</i>
	Gilad Bachrach, Ph.D.	Hebrew University of Jerusalem	<i>Colon Cancer Colonizing Fusobacteria and their Anti-Tumor Potential</i>
	Shay Ben-Aroya, Ph.D.	Bar-Ilan University	<i>Understanding the Roles of the Iron-Sulfur Cofactors in Regulating the Function of Proteins Involved in Maintaining Genome Stability</i>
	Ittai Ben-Porath, Ph.D.	Hebrew University/ Hadassah Medical School	<i>Regulation of Heterogeneity in Breast Cancers through Control of Symmetric Divisions</i>
	Dalit Ben-Yosef, Ph.D.	Tel Aviv Sourasky Medical Center	<i>Induction of APC Somatic Mutation in FAP Human Embryonic Stem Cells for Studying Early Stages in Malignant Transformation</i>
	Avri Ben-Ze'ev, Ph.D.	Weizmann Institute of Science	<i>The Role of Intestinal Stem Cell Signature Genes in Colon Cancer Progression</i>
	Cyrille Cohen, Ph.D.	Bar-Ilan University	<i>Development and Study of a Cell-Secreted 'Ligand Trap' to Mitigate TGFβ Effects</i>
	Haim Cohen, Ph.D.	Bar-Ilan University	<i>Regulation of Metabolic Decisions by SIRT6 and p53 Under Normal and Stress Conditions</i>
	Amir Eden, Ph.D.	Hebrew University of Jerusalem	<i>EZH2 and ErbB Family Inhibition in Rhabdoid Tumors</i>

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE
PROJECT GRANTS <i>(continued)</i>	Zvi Fridlender, M.D.	Hadassah Medical Organization	<i>The Differential Regulation and Clinical Importance of Circulating Cancer-Related Neutrophil Sub-Populations</i>
	Assaf Friedler, Ph.D.	Hebrew University of Jerusalem	<i>Disordered Proteins As Anti-Cancer Drug Targets</i>
	Asaf Hellman, Ph.D.	Hebrew University of Jerusalem	<i>Understanding Epigenetic Contribution to Cancer Risk and Malignancy Through Targeting the DNA Methylation of Transcriptional Enhancers</i>
	Yifat Merbl, Ph.D.	Weizmann Institute of Science	<i>Elucidating Regulatory Principles of Ubiquitin HECT-Domain E3 Ligases in Mammalian Systems</i>
	Dan Peer, Ph.D.	Tel Aviv University	<i>Harnessing RNAi Nanomedicines for Therapeutic Gene Silencing in Glioblastoma Multiforme</i>
	Rachela Popovtzer, Ph.D.	Bar-Ilan University	<i>Detection of Metabolic Activity using CT</i>
	Ada Rephaeli, Ph.D.	Tel Aviv University	<i>The Advantages of Valproic Acid Prodrug and the Mechanism Involved in its Anticancer and Protective Activities in the Treatment of Triple Negative Breast Carcinoma</i>
	Joel Yisraeli, Ph.D.	Hebrew University of Jerusalem	<i>VICKZ Proteins as Cancer Therapeutics</i>
	Tsila Zuckerman, M.D.	Rambam Health Care Campus	<i>AML Heterogeneity using Single Leukemic Cells; Genomic Analysis and Clonal Hierarchy</i>

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GESHER AWARDS	Lior Mayo, Ph.D.	Tel Aviv University	<i>Role of Astrocytes in Glioblastoma Progression</i>
	Ruth Scherz-Shouval, Ph.D.	Weizmann Institute of Science	<i>The Role of Stress Responses in cancer</i>
POSTDOCTORAL FELLOWSHIP	Maya Olshina, Ph.D.	Weizmann Institute of Science	<i>Regulating Degradation by the 20S Proteasome: Identification of Novel Regulatory Proteins</i>
BOOSTER GRANT	Avi Maimon, M.D.	Hebrew University of Jerusalem	<i>Protein S as a Novel Signaling Molecule Mediating Tumor-Microenvironment Interactions</i>

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