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## RESEARCH AWARDS 2019-2020

For the 2019 / 2020 funding year, ICRF is supporting 72 grants valued at \$4,716,666. This is broken down as follows:

<b>9 Jacki and Bruce Barron Cancer Research Scholars' Program Grants</b> <i>(A Partnership between ICRF and City of Hope)</i>	<b>3 Immunotherapy Promise Grants</b> <i>(A Partnership between ICRF and Cancer Research Institute)</i>
<b>1 International Collaboration Grant</b>	<b>1 B. S. Goodman Endowed RCDA for Pancreatic Cancer</b>
<b>2 Brause Family Initiative for Quality of Life Grants</b>	<b>11 Research Career Development Awards (RCDAs)</b>
<b>4 L. &amp; S. Mark Initiative for Ovarian/Uterine Cancers Grants</b>	<b>17 Project Grants</b>
<b>7 Acceleration Grants</b>	<b>12 Research Professorship Grants</b>
<b>5 Postdoctoral Fellowships</b>	

With the 2019 / 2020 grants, ICRF's funding has now reached 2,498 grants totaling \$72,867,332.

*Among the areas of cancer research directly sponsored by ICRF in 2019 / 2020 are: studies in blood, brain, breast, colorectal, endometrial, gastrointestinal, head and neck, kidney, lung, oral, ovarian and uterine, pancreatic, pediatric, and skin cancers; anticancer drug mechanisms and design, drug resistance, and targeted therapy; pain management and quality of life issues; tumor blood vessel growth (angiogenesis); cancer stem cells and cellular reprogramming; expression, regulation, mutation and repair of genes and the DNA damage response; tumor metastasis; inflammation and cancer; immunology and immunotherapy; protein structures and protein interactions; cell signaling and cell-cycle regulation; the gut microbiome; and the tumor microenvironment.*

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE	TOPIC
<b>JACKI &amp; BRUCE BARRON CANCER RESEARCH SCHOLARS' PROGRAM GRANTS</b> <i>(A Partnership between ICRF and City of Hope)</i>	<b>Ziv Gil, MD, PhD (PI) and Laleh Melstrom, MD (Co-PI)</b>	Rambam Health Care Campus and City of Hope	<i>Targeting Pyrimidine Metabolism to Improve Chemotherapy Response in Pancreatic Cancer</i>	Improving Chemotherapy for Pancreatic Cancer
	<b>Emmilia Hodak, MD, PhD (PI) and Christiane Querfeld, MD, PhD (Co-PI)</b>	Rabin Medical Center and City of Hope	<i>Targeting Epigenetic Mechanisms in Cutaneous T Cell Lymphoma</i>	Lymphoma, Immunology and Immunotherapy
	<b>Noah Isakov, PhD (PI) and Zuoming Sun, PhD (Co-PI)</b>	Ben-Gurion University of the Negev and City of Hope	<i>Dual Function of TCF-1 in Lymphoma Development</i>	Lymphoma, Immunology and Immunotherapy
	<b>Shai Izraeli, MD (PI) and Markus Müschen, MD, PhD (Co-PI)</b>	Schneider Children's Medical Center of Israel and City of Hope	<i>Oncogenic Feedback Signaling in "Ph-like" ALL: Mechanisms and Therapeutic Opportunities</i>	Pediatric Leukemia
	<b>Erez Levanon, PhD (PI) and Kevin Morris, PhD (Co-PI)</b>	Bar-Ilan University and City of Hope	<i>RNA Edited Long Non-Coding RNAs and their Role in Cancer</i>	Genetics and Genomics
	<b>Ariel Munitz, PhD (PI) and Hua Yu, PhD (Co-PI)</b>	Tel Aviv University and City of Hope	<i>Uncovering the Roles of Eosinophils in Lung Metastasis</i>	Immunology and Immunotherapy, Metastasis
	<b>Gad Rennert, MD, PhD (PI) and Jeffrey Weitzel, MD (Co-PI)</b>	Carmel Medical Center and City of Hope	<i>Cancer Susceptibility Mutations in Young Israeli Breast Cancer (BC) Patients</i>	Breast Cancer

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<b>BARRON SCHOLARS' PROGRAM GRANTS</b>  <i>(continued)</i>	<b>Idit Shachar, PhD (PI) and Flavia Pichiorri, PhD (Co-PI)</b>	Weizmann Institute of Science and City of Hope	<i>Regulation of CD84 expression and function in multiple myeloma</i>	Multiple Myeloma
	<b>Ravid Straussman, MD, PhD (PI) and Dan Raz, MD (Co-PI)</b>	Weizmann Institute of Science and City of Hope	<i>The Effect of Intra-Tumor Bacteria on the Sensitivity of NSCLC to EGFR and ALK Inhibitors</i>	Non-Small Cell Lung Cancer
<b>INTERNATIONAL COLLABORATION GRANT</b>	<b>Ittai Ben-Porath, PhD (PI) and Francis Rodier, PhD (Co-PI)</b>	Hebrew University of Jerusalem and Université de Montréal	<i>Senescence of the Tumor Niche – Effects on Cancer Growth and Drug Response</i>	Inhibiting Tumor Growth by Targeting Blood Vessels
<b>THE IMMUNOTHERAPY PROMISE GRANTS</b>  <i>(A Partnership between ICRF and Cancer Research Institute)</i>	<b>Cyrille Cohen, PhD</b>	Bar-Ilan University	<i>CRISPR-Based Editing and Manipulation of TIGIT/CD96 to Enhance T-Cell Anti-Tumor Function</i>	Immunology and Immunotherapy
	<b>Lior Nissim, PhD</b>	Hebrew University of Jerusalem	<i>A Synthetic-Biology Based Modality for Lung Cancer Immunotherapy</i>	Lung Cancer, Immunology and Immunotherapy
	<b>Asya Rolls, PhD</b>	Technion, Israel Institute of Technology	<i>Neuronal Regulation of Anti-Tumor Immunity</i>	Immunology and Immunotherapy
<b>BRAUSE FAMILY INITIATIVE FOR QUALITY OF LIFE GRANTS</b>	<b>Yafit Gilboa, PhD</b>	Hebrew University of Jerusalem	<i>Combined Model of Online Remote Interventions for Cancer-Related Cognitive Decline</i>	Preventing Cancer-Related Cognitive Decline
	<b>Avi Priel, PhD</b>	Hebrew University of Jerusalem	<i>Non-Opioid Specific Analgesics for Cancer Pain: Modulating the Pain Receptor TRPV1</i>	Developing Non-Opioid Treatments for Cancer Pain Management

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LEN & SUSAN MARK INITIATIVE FOR OVARIAN AND UTERINE/MMMT CANCERS GRANTS	Rotem Karni, PhD	Hebrew University of Jerusalem	<i>The Role of FOXL2 in Ovarian Cancer Progression</i>	Ovarian Cancer
	Ruth Perets, MD, PhD	Rambam Health Care Campus	<i>Novel Structural Based Mechanism of Targeting Ovarian and Endometrial Carcinomas</i>	Ovarian and Endometrial Cancers
	Itay Tirosh, PhD	Weizmann Institute of Science	<i>Single Cell Analysis of Ovarian and Uterine Cancers</i>	Ovarian and Uterine Cancers
	Yosef Yarden, PhD	Weizmann Institute of Science	<i>Towards Immunotherapy of Ovarian Cancer: Disabling the Immuno-Suppressive Microenvironment</i>	Developing Immunotherapy for Ovarian Cancer
ACCELERATION GRANTS	Shay Ben-Aroya, PhD	Bar-Ilan University	<i>Identifying Proteasome Targets Involved in DNA Double Strand Breaks Repair</i>	DNA Breakage and Repair
	Limor Broday, PhD	Tel Aviv University	<i>Elucidating the Role of the Upstream Partner in Oncogenic ALK Gene Fusions</i>	Cell Signaling, Genetics and Genomics, Model Organisms, Lung Cancer
	Benjamin Dekel, MD, PhD	Chaim Sheba Medical Center	<i>Genetic Engineering Based Novel Therapeutic Approaches Against Wilms' Tumor</i>	Cancer Stem Cells, Pediatric Kidney Cancers
	Yaron Fuchs, PhD	Technion, Israel Institute of Technology	<i>Caspase-3 as a Novel Therapeutic Target for Skin Cancer Therapy</i>	Skin Cancer

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ACCELERATION GRANTS <i>(continued)</i>	Naama Geva-Zatorsky, PhD	Technion, Israel Institute of Technology	<i>Prevention of Cancer by Gut Bacteriophages</i>	Colorectal and Gastro-intestinal Cancers, Inflammation and Cancer
	Yifat Merbl, PhD	Weizmann Institute of Science	<i>Reshaping Dysfunctional T Cells by Modulating Ubiquitin-Dependent Regulation</i>	Predicting Responses to Immunotherapy
	Yitzhak Pilpel, PhD	Weizmann Institute of Science	<i>Characterizing the Spectrum and Mechanisms of Phenotypic Errors in Cancer</i>	Molecular Genetics and Computational Biology
RESEARCH PROFESSORSHIP GRANTS	Michal Baniyash, PhD	Hebrew University of Jerusalem	<i>The Role of Immunosuppressive Cells and Gut Microbiota in Inflammatory Bowel Disease and Colorectal Cancer: Clinical Implications</i>	Colorectal Cancer
	Yinon Ben-Neriah, MD, PhD	Hebrew University/ Hadassah Medical School	<i>CKI Regulation in Normal and Malignant Stem Cells</i>	Colorectal Cancer and Cancer Stem Cells
	Yehudit Bergman, PhD	Hebrew University/ Hadassah Medical School	<i>The Role of Epigenetic Regulation in Stem Cells and Cancer</i>	Cancer Stem Cells, Inflammation and Cancer, Breast and Colon Cancer
	Howard Cedar, MD, PhD	Hebrew University/ Hadassah Medical School	<i>Regulation of Gene Expression in Animal Cells</i>	Molecular Genetics
	Aaron Ciechanover, MD, DSc	Technion, Israel Institute of Technology	<i>Unraveling the Tumor-Suppressing Mechanisms Involved in Ubiquitin-Mediated Activation of NF-kappaB</i>	Ubiquitin System, NF-κB Protein, Involvement in Inflammation and Cell Proliferation

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RESEARCH PROFESSORSHIP GRANTS (continued)	Jacob Hanna, MD, PhD	Weizmann Institute of Science	<i>New Cancer Therapy Related Mechanistic and Applied Frontiers with Patient Specific iPSCs</i>	Induced Pluripotent Stem Cells
	Avram Hershko, MD, PhD	Technion, Israel Institute of Technology	<i>Roles of the Ubiquitin System in the Control of Cell Division and in Cancer</i>	Ubiquitin System
	Martin Kupiec, PhD	Tel Aviv University	<i>Dissecting the Molecular Functions of Elg1/ATAD5</i>	Molecular Biology
	Ofer Mandelboim, PhD	Hebrew University of Jerusalem	<i>Development of New Checkpoint Inhibitors Based on Novel TIGIT Ligands</i>	Immunology and Immunotherapy
	Ronit Satchi-Fainaro, PhD	Tel Aviv University	<i>P-Selectin-Targeted Nanomedicines and Immunotherapy for Brain Metastases Prevention</i>	Designing Treatment to Prevent Brain Metastases
	Yosef Shiloh, PhD	Tel Aviv University	<i>The ATM-Mediated DNA Damage Response: Moving between the Forest and the Trees</i>	The DNA Damage Response and Maintaining Genomic Stability
	Israel Vlodavsky, PhD	Technion, Israel Institute of Technology	<i>Heparanase: From Basic Research to Therapeutic Applications</i>	Improving Anti-Heparanase Therapies for Cancer Treatment
BARBARA S. GOODMAN ENDOWED RCDA FOR PANCREATIC CANCER	Neta Milman, PhD	Ramabam Health Care Campus	<i>Microvesicle-Mediated Immunomodulation of Pancreatic Cancer Progression</i>	Pancreatic Cancer

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RESEARCH CAREER DEVELOPMENT AWARDS (RCDAs)	<b>Rony Dahan, PhD</b>	Weizmann Institute of Science	<i>Increasing the Therapeutic Window of CD40 Agonistic Antibodies</i>	Immunology, Immunotherapy, and Cancer Metastasis
	<b>Moshe Elkabets, PhD</b>	Ben-Gurion University of the Negev	<i>Stromal Cell Mediated Mechanisms of Resistance to Anti-EGFR Therapies in Head and Neck Cancer</i>	Head and Neck Cancer
	<b>Moshe Giladi, MD, PhD</b>	Tel Aviv University	<i>Molecular Basis of cis-Prenyl-Transferase Activity Underlying Aberrant Cancer Glycosylation</i>	Studying Sugars on the Surface of Cancer Cells as Treatment Targets
	<b>Zvi Granot, PhD</b>	Hebrew University of Jerusalem	<i>The Role Played by TRPM2 in Neutrophil-Mediated Killing of Cancer Cells</i>	Metastasis and Tumor Cell Killing by Neutrophils (Immunology)
	<b>Nir London, PhD</b>	Weizmann Institute of Science	<i>Targeting Melanoma with Covalent Drugs</i>	New Drug Targets for Melanoma
	<b>Rotem Rubinstein, PhD</b>	Tel Aviv University	<i>Structural Biology of VISTA - an Immune Checkpoint Inhibitor</i>	Immunology and Immunotherapy
	<b>Maayan Salton, PhD</b>	Hebrew University of Jerusalem	<i>Splicing Modulation to Combat Vemurafenib Resistant Melanoma</i>	Melanoma and Skin Cancers
	<b>Yoav Shaul, PhD</b>	Hebrew University of Jerusalem	<i>The Essential Role of Dihydropyrimidines in Breast Cancer Progression</i>	Breast Cancer Metastasis
	<b>Ziv Shulman, PhD</b>	Weizmann Institute of Science	<i>Reconstruction of Tumor Niches using NICHE-CyTOF</i>	Inflammation and Cancer, Pancreatic Cancer and Melanoma

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<b>RCDAs</b> <i>(continued)</i>	<b>Yonatan Stelzer, PhD</b>	Weizmann Institute of Science	<i>Studying Non-Canonical Expression of IGF2 and its Role in Tumorigenesis</i>	Epigenetics in Cancer Biology
	<b>Reuven Wiener, PhD</b>	Hebrew University of Jerusalem	<i>Targeting the Ubiquitin-Like Protein Activating Enzyme, UBA5, for Anti-Cancer Drug Design</i>	Anti-Cancer Drug Design
<b>PROJECT GRANTS</b>	<b>Gil Ast, PhD</b>	Tel Aviv University	<i>Long and Short Introns Reside in Different Nuclear Subcompartments</i>	Computational Biology, Genetics and Genomics
	<b>Gilad Bachrach, PhD</b>	Hebrew University of Jerusalem	<i>Involvement of Fusobacterium Nucleatum in Breast Cancer</i>	Bacteria, Breast and Colon Cancers
	<b>Irit Ben Aharon, MD, PhD</b>	Rambam Health Care Campus	<i>Cancer and Pregnancy: Role of Vascular Toxicity in Chemotherapy-Induced Placental Insult</i>	Chemotherapy, Cancer and Pregnancy
	<b>Adit Ben-Baruch, PhD</b>	Tel Aviv University	<i>TNFR2+ TILs in Triple Negative Breast Cancer: Phenotype, Roles and Therapy Implications</i>	Immunology and Immunotherapy, Triple Negative Breast Cancer
	<b>Itai Benhar, PhD</b>	Tel Aviv University	<i>Antibodies Targeting Cancer-Associated GPCRs Isolated by a Functional Yeast-Based Screen</i>	Immunology and Immunotherapy for Carcinomas
	<b>Neta Erez, Ph.D.</b>	Tel Aviv University	<i>Uncovering the Role of Stromal and Immune Cells in the Lung Metastatic Niche of Breast Cancer</i>	Breast Cancer Metastasis to the Lungs
	<b>Avi-Hai Hovav, PhD</b>	Hebrew University of Jerusalem	<i>A Shift in Epithelial Antigen-Presenting Cells Drives Oral Squamous Cell Carcinoma</i>	Oral Carcinoma



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PROJECT GRANTS <i>(continued)</i>	Tomer Kalisky, PhD	Bar-Ilan University	<i>Characterizing Cellular Heterogeneity in Renal Cell Carcinoma Using Single-Cell Genomics</i>	Kidney Cancer
	Nathan Karin, PhD	Technion, Israel Institute of Technology	<i>CXCL10 as a Positive Immune Checkpoint for Effector CD8+ T Cells in Cancer Immunotherapy</i>	Immunology and Immunotherapy for Melanoma
	Igor Koman, PhD	Ariel University	<i>Development of FACT inhibitors for cancer stem cell eradication and cancer treatment</i>	Drug Mechanisms and Development, Cancer Stem Cells
	Yaacov Lawrence, MBBS	Chaim Sheba Medical Center	<i>Mechanistic Exploitation of Metabolic Rewiring Overcomes Radioresistant Pancreatic Cancer</i>	Radiation-Resistant Pancreatic Cancer
	Michael Milyavsky, PhD	Tel Aviv University	<i>Characterization and Targeting of a Novel Epigenetic Circuit in Acute Leukemia</i>	Pediatric Leukemia
	Thomas Schultheiss, MD, PhD	Technion, Israel Institute of Technology	<i>An In Vivo Model for Studying Mesenchymal-to-Epithelial Transition (MET)</i>	Metastasis
	Daniel Segal, PhD	Tel Aviv University	<i>Evaluating Arginine as a Potential Treatment for the von Hippel-Lindau Cancer Syndrome</i>	Drug Mechanisms and Development
	Yuval Shaked, PhD	Technion, Israel Institute of Technology	<i>Mechanisms Underlying Cancer Resistance and Hyperprogressive Responses to Immunotherapy</i>	Immunology and Immunotherapy

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PROJECT GRANTS <i>(continued)</i>	Julia Shifman, PhD	Hebrew University of Jerusalem	<i>Design of Mono- and Bi-Specific Inhibitors of Matrix Metalloproteinases</i>	Proteomics and Protein Structures and Protein Engineering
	Michal Brunwasser-Meirom, PhD	Technion, Israel Institute of Technology	<i>Harnessing the Gut Bacteria and Bacteriophages for Cancer Therapy</i>	Testing Bacteria and Viruses for Cancer Immunotherapy
POSTDOCTORAL FELLOWSHIPS	Noa Furth, PhD	Weizmann Institute of Science	<i>Deciphering the Epigenetic Regulatory Network of Tumors with Single-Molecule Precision</i>	Blood, Brain, and Pediatric Cancers, Genetics and Genomics
	Lina Jaber, PhD	Hebrew University of Jerusalem	<i>Dissecting the Role of Tumor Suppressor WWOX in Antagonizing Pancreatic Cancer</i>	Pancreatic Cancer
	Asael Lubotzky, MD	Hebrew University of Jerusalem	<i>Detection of organ damage from tumor metastases using cell free DNA methylation patterns</i>	Genetics and Genomics, Metabolism and Cancer
	Lirin Michaeli, PhD	Tel Aviv University	<i>SUMO Regulation on UPRmt and Apoptosis Resistance</i>	New Targets for Cancer Treatment