

52 Vanderbilt Avenue, Suite 1510, New York, NY 10017-3834 tel 212.969.9800 • fax 212.969.9822 • toll free 888.654.ICRF (4273) e-mail info@icrfonline.org • web site www.icrfonline.org

RESEARCH GRANTS 2021-2022

For the 2021 / 2022 funding year, ICRF is supporting 74 grants valued at \$4,616,334. This is broken down as follows:

2 Jacki and Bruce Barron Cancer Research Scholars' Program Grants (A Partnership between ICRF and City of Hope)	2 Max Ritvo, Alan Slifka and Desiree Dato Fund Grants (A Partnership between ICRF, SWCRF, and ABSF)
2 Gesher Grants for Academic Excellence (A Partnership between ICRF and the Israel Ministry of Science and Technology)	2 ICRF-Conquer Cancer Career Development Awards (A Partnership between ICRF and Conquer Cancer [The ASCO Foundation])
2 Abshez Initiative for Female Reproductive System Cancers Grants	1 B. S. Goodman Endowed RCDA for Pancreatic Cancer
3 L. & S. Mark Initiative for Ovarian/Uterine Cancers Grants	13 Research Career Development Awards (RCDAs)
2 Acceleration Grants	29 Project Grants
6 Postdoctoral Fellowships	9 Research Professorship Grants
1 Clinical Research Career Development Award (CRCDA)	

With the 2021 / 2022 grants, ICRF's funding has now reached 2,643 grants totaling \$82,368,334.

Among the areas of cancer research directly sponsored by ICRF in 2021 / 2022 are: studies in blood, brain, breast, colorectal, kidney, liver, lung, oral, ovarian, pancreatic, pediatric, and skin cancers; drug development; cancer stem cells and cellular reprogramming; imaging and early detection; expression, regulation, and mutation of genes, and DNA repair; tumor metastasis; inflammation and cancer; obesity and cancer; cannabinoids and cancer; immunology and immunotherapy; proteomics and computational biology; cell signaling and cell-cycle control.

AWARD	AWARDEE	INSTITUTION	PROJECT TITLE	ТОРІС
JACKI & BRUCE BARRON CANCER RESEARCH SCHOLARS'	Yardena Samuels, PhD (PI) and Yuan Yuan, MD, PhD (Co-PI)	Weizmann Institute of Science and City of Hope	Identifying PIK3CA Neoantigen- Specific T Cell Receptors for Cell Therapy of Solid Tumors	Immunology and Immunotherapy, Genetics and Genomics
PROGRAM GRANTS (A Partnership between ICRF and City of Hope)	Tomer Shlomi, PhD (PI) and Saul Priceman, PhD (Co-PI)	Technion, Israel Institute of Technology and City of Hope	Overcoming Immunosuppression of Adoptive T Cell Therapy for Solid Tumors via Metabolic Engineering	Immunology and Immunotherapy, Metabolism and Cancer
ICRF-CONQUER CANCER CAREER DEVELOPMENT	Albert Grinshpun, MD	Hadassah University Medical Center	Universal Detection of Breast Cancer	Early Diagnosis of Breast Cancer via a Blood Test
AWARDS (A Partnership between ICRF and Conquer Cancer [The ASCO Foundation])	Shlomit Strulov Shachar, MD	Tel Aviv Sourasky Medical Center	Identifying Molecular Oncogenic Drivers Associated with Differential Clinical Benefit to Inhibition of the P13K Pathway in Estrogen Receptor- Positive Metastatic Breast Cancer	Metastatic Breast Cancer
MAX RITVO, ALAN SLIFKA AND DESIREE DATO FUND GRANTS FOR FUSION- ONCOPROTEIN CANCERS AND	Ido Amit, PhD (PI) and Miriam Merad, MD, PhD (Co-PI)	Weizmann Institute of Science and Icahn School of Medicine at Mount Sinai Medical Center	Elucidating the Mechanisms by which Pyk2 Regulates Tumor-Macrophage Interactions in Metastasis	Metastasis
METASTASIS (A Partnership between ICRF, Samuel Waxman Cancer Research Foundation, and Alan B. Slifka Foundation)	Yosef Yarden, PhD (PI) and Elizabeth Lawlor, MD, PhD (Co-PI)	Weizmann Institute of Science and Seattle Children's Research Institute	Impact of Steroid Hormones on Ewing Sarcoma: Mechanisms and Implications for Treatment	Ewing Sarcoma

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GESHER GRANTS FOR ACADEMIC EXCELLENCE	Uri Ben-David, PhD	Tel Aviv University	Dissecting the Selection Pressures that Shape Aneuploidy Landscapes in Cancer	Genetics and Genomics
(A Partnership between ICRF and the Israel Ministry of Science and Technology [MOST])	Erez Hasnis, MD, PhD	Rambam Health Care Campus	Role of RNF125 in Acinar-to-Ductal Metaplasia and Pancreatic Cancer	Pancreatic Cancer
BEVERLEY LIBRACH ABSHEZ INITIATIVE FOR OVARIAN AND	Ruth Perets, MD, PhD	Rambam Health Care Campus	A Novel, Highly-Specific Mouse Model for Studying HGSC Pathogenesis and Prevention	Ovarian Cancer
FEMALE REPRODUCTIVE SYSTEM CANCERS	Ziv Shulman, PhD	Weizmann Institute of Science	The Physiological Role of Patient- Derived Antibodies in Ovarian Cancer Progression	Ovarian Cancer
LEN & SUSAN MARK INITIATIVE FOR OVARIAN AND	Sol Efroni, PhD	Bar-Ilan University	Early Detection of Ovarian Cancer using a Blood Sample	Ovarian Cancer
UTERINE/MMMT CANCERS GRANTS	Keren Levanon, MD, PhD	Chaim Sheba Medical Center	Predicting and Overcoming Resistance to First-Line Chemotherapy in Ovarian Cancer	Ovarian Cancer
	Eylon Yavin, PhD	Hebrew University of Jerusalem	Imaging Ovarian Cancer by cpFIT-PNAs	Ovarian Cancer
CLINICAL RESEARCH CAREER DEVELOP- MENT AWARD	Amit Tirosh, MD	Chaim Sheba Medical Center	Investigating the Role of Onco- metabolites in von Hippel-Lindau Related Endocrine Cancer	Pancreatic Cancer

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BARBARA S. GOODMAN ENDOWED RCDA FOR PANCREATIC CANCER	Oren Parnas, PhD	Hebrew University of Jerusalem	A Functional Investigation of Acinar Metaplastic and Pancreatic Tumor Expressed Genes	Pancreatic Cancer
RESEARCH CAREER DEVELOPMENT	Sheera Adar, PhD	Hebrew University of Jerusalem	A DNA Repair Role for SWI/SNF Chromatin Remodelers in Cancer Prevention and Therapy	Cancer Prevention and Therapy
AWARDS (RCDAs)	Yaron Carmi, PhD	Tel Aviv University	Identifying the Mechanisms Underlying Melanoma Relapse Following Curative Surgery	Skin Cancer
	Idan Cohen, PhD	Ben-Gurion University of the Negev	Polycomb Repressive Complex 1 and Histone H2AK119 Mono- Ubiquitination in Skin Cancer	Skin Cancer
	Moshe Giladi, MD, PhD	Tel Aviv University	Molecular Basis of cis-Prenyl- Transferase Activity Underlying Aberrant Cancer Glycosylation	Studying Sugars on the Surface of Cancer Cells as Treatment Targets
	Joshua Grolman, PhD	Technion, Israel Institute of Technology	The Role of ECM Plasticity on Immune Modulation in the Tumor Microenvironment	Inflammation and the Immune Response
	Nir London, PhD	Weizmann Institute of Science	Targeting Melanoma with Covalent Drugs	Drug Development for Skin Cancer
	Asaf Madi, PhD	Tel Aviv University	Improving Durable Response Rates Following Checkpoint Blockade Therapy	Inflammation and the Immune Response

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RCDAs (continued)	Katy Margulis, PhD	Hebrew University of Jerusalem	Development of New Therapies in Cancer Using Ambient Mass Spectrometry Imaging	Developing New Imaging Tools to Detect Skin Cancer
	Noga Ron-Harel, PhD	Technion, Israel Institute of Technology	Engaging Cellular Metabolism to Enhance T Cell Therapy in Aged Patients	Investigating the Effect of Aging on the Efficacy of Immunotherapy
	Rotem Rubinstein, PhD	Tel Aviv University	Structural Biology of VISTA - an Immune Checkpoint Inhibitor	Immunology and Immunotherapy
	Yoav Shaul, PhD	Hebrew University of Jerusalem	The Essential Role of Dihydro- pyrimidines in Breast Cancer Progression	Breast Cancer Metastasis
	Efrat Shema, PhD	Weizmann Institute of Science	Deciphering the Epigenome of Gliomas Driven by Oncohistones and IDH Mutations	Inflammation and Cancer, Pancreatic Cancer and Melanoma
	Yonatan Stelzer, PhD	Weizmann Institute of Science	Studying Non-Canonical Expression of IGF2 and its Role in Tumorigenesis	Epigenetics in Cancer Biology
ACCELERATION GRANTS	Lucio Frydman, PhD	Weizmann Institute of Science	Deuterium Metabolic MRI: An Emerging Radiation-Free Surrogate of PET	Improving Imaging for Early Detection of Cancer
	Yael Mardor, PhD	Chaim Sheba Medical Center	BBB Disruption by Low Pulsed Electric Fields for Antibodies Delivery to Brain Metastases	Breast Cancer that has Metastasized to the Brain

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RESEARCH PROFESSORSHIP GRANTS	Michal Baniyash, PhD	Hebrew University of Jerusalem	The Role of Immunosuppressive Cells and Gut Microbiota in Inflammatory Bowel Disease and Colorectal Cancer: Clinical Implications	Colorectal Cancer
	Yinon Ben-Neriah, MD, PhD	Hebrew University/ Hadassah Medical School	CKI Regulation in Normal and Malignant Stem Cells	Development of a Drug to Eradicate Leukemia Stem Cells
	Howard Cedar, MD, PhD	Hebrew University/ Hadassah Medical School	Regulation of Gene Expression in Animal Cells	Molecular Genetics
	Aaron Ciechanover, MD, DSc	Technion, Israel Institute of Technology	Unraveling the Tumor-Suppressing Mechanisms Involved in Ubiquitin- Mediated Activation of NF-kappaB	Ubiquitin System, NF-κB Protein, Involvement in Inflammation and Cell Proliferation
	Jacob Hanna, MD, PhD	Weizmann Institute of Science	New Cancer Therapy Related Mechanistic and Applied Frontiers with Patient Specific iPSCs	Induced Pluripotent Stem Cells
	Avram Hershko, MD, PhD	Technion, Israel Institute of Technology	Roles of the Ubiquitin System in the Control of Cell Division and in Cancer	Ubiquitin System
	Martin Kupiec, PhD	Tel Aviv University	Dissecting the Molecular Functions of Elg1/ATAD5	Molecular Biology
	Ofer Mandelboim, PhD	Hebrew University of Jerusalem	Development of New Checkpoint Inhibitors Based on Novel TIGIT Ligands	Immunology and Immunotherapy

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RESEARCH PROFESSORSHIP GRANTS (continued)	Ronit Satchi-Fainaro, PhD	Tel Aviv University	P-Selectin-Targeted Nanomedicines and Immunotherapy for Brain Metastases Prevention	Designing Treatment to Prevent Brain Metastases
PROJECT GRANTS	Ronen Alon, PhD	Weizmann Institute of Science	A-Type Lamins in Melanoma Invasion, Pulmonary Extravasation, and Lung Metastasis	Skin Cancer and Metastasis to the Lungs
	Gil Ast, PhD	Tel Aviv University	Long and Short Introns Reside in Different Nuclear Subcompartments	Computational Biology, Genetics and Genomics
	Naama Barkai, PhD	Weizmann Institute of Science	The Contribution of Histone Chaperone to Nucleosome Exchange within Cells	Genomic Instability and DNA Repair
	Sivia Barnoy, RN, PhD	Tel Aviv University	Cascade Screening for Hereditary Breast and Ovarian Cancer and Lynch Syndrome in Israel	Breast, Ovarian and Colorectal Cancers
	Irit Ben Aharon, MD, PhD	Rambam Health Care Campus	Cancer and Pregnancy: Role of Vascular Toxicity in Chemotherapy- Induced Placental Insult	Chemotherapy, Cancer and Pregnancy
	Shamgar Ben-Eliyahu, PhD	Tel Aviv University	A Novel Clinical Perioperative Intervention to Improve DFS in Colorectal Cancer Patients	Colorectal Cancer
	Ittai Ben-Porath, PhD	Hebrew University of Jerusalem	Roles of p16 and Senescence in the Epidermal UV Radiation Response and Early Tumorigenesis	Skin Cancer

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PROJECT GRANTS (continued)	Michael Berger, PhD	Hebrew University of Jerusalem	Generating Metabolically Superior T Cells as Novel Immunotherapy to Treat Solid Tumors	Improving Immunotherapy
(**************************************	Benjamin Berman, PhD	Hebrew University of Jerusalem	Tracking DNA Methylation Loss to Understand the Origins and Evolution of a Tumor	Identification of New Cancer Biomarkers
	Rony Dahan, PhD	Weizmann Institute of Science	Dendritic Cell Targeted Agonists for Cancer Immunotherapy	Immunology and Immunotherapy
	Michael Elkin, PhD	Hadassah University Medical Center	Metabolic Endotoxemia: A New Molecular Target between Obesity and Breast Cancer	Obesity and Breast Cancer
	Ayelet Erez, MD, PhD	Weizmann Institute of Science	Preventing Cancer Cachexia by Regulating Amino Acid Metabolism	Preventing Loss of Skeletal Muscle due to Cancer Treatment
	Neta Erez, Ph.D.	Tel Aviv University	Uncovering the Role of Stromal and Immune Cells in the Lung Metastatic Niche of Breast Cancer	Breast Cancer Metastasis to the Lungs
	Hava Gil-Henn, PhD	Bar-Ilan University	A Peptide-Based Approach for Blocking Breast Cancer Metastasis	Breast Cancer Metastasis
	Zvi Granot, PhD	Hebrew University of Jerusalem	Neutrophil Specific Targeting of TORC1 Signaling as a Novel Mode of Cancer Immunotherapy	Immunology and Immunotherapy
	Shoshana Greenberger, MD, PhD	Chaim Sheba Medical Center	Role of Melanosomes in Tumor- Associated Lymphangiogenesis and Immune Tolerance	Skin Cancer

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PROJECT GRANTS (continued)	Avi-Hai Hovav, PhD	Hebrew University of Jerusalem	A Shift in Epithelial Antigen-Present- ing Cells Drives Oral Squamous Cell Carcinoma	Oral Carcinoma
	Tomer Kalisky, PhD	Bar-Ilan University	Characterizing Cellular Heterogeneity in Renal Cell Carcinoma Using Single- Cell Genomics	Kidney Cancer
	Nathan Karin, PhD	Technion, Israel Institute of Technology	CXCL10 as a Positive Immune Checkpoint for Effector CD8+ T Cells in Cancer Immunotherapy	Immunology and Immunotherapy for Melanoma
	Yaacov Lawrence, MBBS	Chaim Sheba Medical Center	Mechanistic Exploitation of Metabolic Rewiring Overcomes Radioresistant Pancreatic Cancer	Radiation-Resistant Pancreatic Cancer
	Dan Levy, PhD	Ben-Gurion University of the Negev	Role of Lysine Methylation in the Regulation of Mitotic Events under Replication Stress	Genomic Instability and DNA Repair
	David Meiri, PhD	Technion, Israel Institute of Technology	Antitumoral Effects of a Distinct Combination of Cannabinoids via Notch1 Pathway in T-ALL	Cannabinoids and Blood Cancers
	Michael Milyavsky, PhD	Tel Aviv University	Characterization and Targeting of a Novel Epigenetic Circuit in Acute Leukemia	Pediatric Leukemia
	Niv Papo, PhD	Ben-Gurion University of the Negev	Map Ligand Binding Selectivity Landscapes toward Engineering Target-Specific Inhibitors	Engineering novel inhibitors for chemical targets in cancer therapy

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PROJECT GRANTS (continued)	Yoram Reiter, PhD	Technion, Israel Institute of Technology	Overcoming Resistance to CAR-T cell Therapy due to Antigen Modulation by New Receptors	Improving Immunotherapy
	Rina Rosin-Arbesfeld, PhD	Tel Aviv University	Targeting Wnt Signaling in Hematological Malignancies	Blood Cancers
	Ruth Scherz-Shouval, PhD	Weizmann Institute of Science	Dissecting the Stromal Landscape of Colitis-Associated Cancer	Colorectal Cancer
	Thomas Schultheiss, MD, PhD	Technion, Israel Institute of Technology	An In Vivo Model for Studying Mesenchymal-to-Epithelial Transition (MET)	Metastasis
	Joel Yisraeli, PhD	Hebrew University of Jerusalem	Developing a Small Molecule Inhibitor for Igf2bp1 — A Novel Targeted Therapy for Lung Carcinoma	Targeted Therapy for Lung Cancer
POSTDOCTORAL FELLOWSHIPS	Aviad Ben-Shmuel, PhD	Weizmann Institute of Science	Elucidating the Modulation of Natural Killer Cells by the Cancer Stroma in Breast Cancer	Breast Cancer
	Ofer Elhanani, PhD	Weizmann Institute of Science	Revealing Tumor-Clone Interactions in Melanoma using Multiplexed Ion Beam Imaging	Skin Cancer
	Tal Falick Michaeli, MD	Hebrew University of Jerusalem	Epigenetic Landscape in the Metastatic Liver Before and After Hepatic Resection	Colorectal Cancer and Metastasis to the Liver

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POSTDOCTORAL FELLOWSHIPS (continued)	Lina Jaber, PhD	Hebrew University of Jerusalem	Dissecting the Role of Tumor Suppressor WWOX in Antagonizing Pancreatic Cancer	Pancreatic Cancer
	Lirin Michaeli, PhD	Tel Aviv University	SUMO Regulation on UPRmt and Apoptosis Resistance	New Targets for Cancer Treatment
	Adi Reches, PhD	Hebrew University of Jerusalem	rRNA 2'-O-Methylation as a Regulator of Leukemia Growth and a Potential Therapeutic Target	Leukemia

