

## REQUESTS FOR FUNDING 2018 CANCER RESEARCH FELLOWSHIPS

REF. #	INSTITUTION	RESEARCHER	RESEARCH SUBJECT	FUNDING REQUESTED	
1	20180002	<i>The Weizmann Institute of Science</i>	Prof. Eran Segal	Systematic profiling of mutant p53 endowed drug resistance - towards <b>personalized cancer treatment</b> .	<b>FUNDED</b>
2	20180005	<i>The Weizmann Institute of Science</i>	Prof. Alon Ronen	Modulation of the nuclear lamina: a new checkpoint in <b>cancer metastasis to breasts and lungs</b> .	<b>FUNDED</b>
3	20180006	<i>Lin Medical Center</i>	Prof. Ben-Arie Eran	Reducing anxiety & post-operative pain in patients with <b>gynecological cancer</b> referred to peri & intra-operative acupuncture & integrative medicine: A randomized controlled study.	<b>Funding Requested \$22,000.00</b>
4	20180012	<i>Ben-Gurion University of the Negev</i>	Dr. Barak Rotblat	Focused functional interrogation of long noncoding RNA's associated with poor patient outcome. This study will bring forth lncRNAs as a new promising diagnostic tool and as drug targets in <b>glioblastoma</b> .	<b>Funding Requested \$52,000.00</b>
5	20180016	<i>The Hebrew University of Jerusalem</i>	Prof. Michael Brandeis	Elucidating Mitotic Slippage to <b>improve the efficacy of the chemotherapeutic drug TAXOL</b> . Cell slippage refers to cancer cells that are not killed by the drug, but instead slip from mitosis & may then die, arrest in the cell cycle or continue as unstable cells.	<b>FUNDED</b>

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6	20180025	Hadassah Medical Center Ein Kerem Campus	Dr.Menachem Gross	Tracheoesophageal speech with voice prosthesis (VP) is the preferred method for voice restoration following laryngectomy in patient with <b>laryngeal cancer</b> . Severe infections often follow, A new sustained release application of <b>Chlorhexidine</b> to stop these infections will be studied.	<b>Funding Requested</b> <b>\$22,000.00</b>
7	20180027	Tel Aviv University	Prof. Reuven Stein	Mitochondria transfer from astrocytes to <b>Melanoma cells</b> ; a tumor supportive effect mediated by CD38.	<b>FUNDED</b>
8	20180029	Schneider Children's Medical Center	Dr. Orna Steinberg Shemer	Understanding the pathways involved in malignant transformation ( <b>Leukemia</b> ) development in patients with severe congenital neutropenia, a rare blood disorder characterized by abnormally low levels of certain white blood cells (neutrophils) in the body (neutropenia).	<b>Funding Requested</b> <b>\$52,000.00</b>
9	20180032	The Hebrew University of Jerusalem	Prof. Batsheva Kerem	A study of the molecular basis of genomic instability to help in <b>developing novel cancer therapies</b> . A strong association between p53 mutations & chromothripsis was found in many forms of cancer, providing a genetic basis for understanding very aggressive subtypes of cancer.Chromothripsis is a catastrophic event leading to tens to hundreds of changes affecting one or a few chromosomes.	<b>FUNDED</b>

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10 20180035	Sheba Medical Center	Dr. Michael Peled	<b>Interferon</b> $\gamma$ -induced surface proteome analysis for the discovery of novel checkpoints in <b>Lung Cancer</b> .	<b>FUNDED</b>
11 20180037	Ben-Gurion University of the Negev	Dr. Hadar Ben-Yoav	Simultaneous detection of multiple redox-active metabolites in <b>Bladder Cancer</b>	<b>FUNDED</b>
12 20180041	Tel Aviv University	Dr. Yaron Carmi	Identifying Tumor reactive CD4+ Tclones to better understand the process by which they are generated, and open new avenues for the <b>improvement of immunotherapies</b> .	<b>FUNDED</b>
13 20180045	The Hebrew University of Jerusalem	Dr. Tal Burstein Cohen	<b>Decoding the anti-tumor roles of PROS1 (a protein secreted by immune cells) in the tumor microenvironment.</b> Inhibiting PROS1 arrested cancer progression, revealing its novel anti-tumor role. Here we propose to test whether it may be further developed as an anti-cancer therapy.	<b>Funding Requested \$52,000.00</b>
14 20180047	The Hebrew University of Jerusalem	Dr. Zvi Granot	Molecular Characterization of the Inhibitory Effect of TGFbeta on Ant-Tumor Neutrophils. The study will highlight specific TGFbeta response pathways that may be targeted therapeutically to enhance neutrophil anti-cancer responses for <b>immunotherapy</b> .	<b>Funding Requested \$22,000.00</b>

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15 20180051	Carmel Medical Center	Dr. Michal (Miki) Rahat	<b>We have recently developed a vaccination against a protein that is naturally expressed in some tissues of the body (self-protein), that tumor cell must specifically express in order to survive and grow.</b> We will study how this vaccine selectively targets tumors & not healthy tissues.	<b>FUNDED</b>
16 20180054	Tel Aviv Sourasky Medical Center	Dr. Ilan Bruchim	Development of an infra-red spectroscopy system to identify the presence of <b>gynecologic cancers</b> during surgical tumor procedures that will be more accurate than current frozen section tests.	<b>Funding Requested \$22,000.00</b>
17 20180055	University of Haifa	Dr. Liza Barki-Harington	The Role of COX-2 (an inflammatory enzyme) in the breakdown of proteins by SKI-1 protease in the spread of <b>Multiple Myeloma.</b>	<b>Funding Requested \$22,000.00</b>
18 20180062	The Hebrew University of Jerusalem	Dr. Yoav Shaul	The essential role of GPX8 in regulating <b>metastatic breast cancer</b> cell fate. Principal aim in this proposal is to formulate protocols to understand the role of an enzyme named GPX8 in metastatic formation.	<b>Funding Requested \$22,000.00</b>
19 20180066	The Hebrew University of Jerusalem	Dr. Shira Adar	The contribution of DNA to <b>Cisplatin</b> sensitivity & resistance of cancer cells. Cisplatin and its chemical derivatives are used to treat <b>testicular, lung, colorectal, head-and-neck, &amp; ovarian cancers.</b>	<b>FUNDED</b>

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20	<b>20180069</b>	<i>The Hebrew University of Jerusalem</i>	Dr. Reuven Weiner	Modification of a protein called ASC1 by UFM1 (a ubiquitin-like protein) is critical for <b>Breast Cancer</b> development. We will seek novel inhibitors for protein modifications by UFMI.	<b>FUNDED</b>
21	<b>20180071</b>	<i>Institute of Applied Research Galilee Society</i>	Dr. Rian Anuar	<b>New derivative of Taxol</b> for efficient treatment of <b>Non Small Cell Lung Cancer</b> . This is a new molecule composed of two approved drugs (Taxol and Lipoic acid) that are bound to each other in an esteric bond.	<b>FUNDED</b>
22	<b>20180074</b>	<i>Technion Israel Institute of Technology</i>	Dr.. Deborah Yablonski	Functional data to support the development of Gads-based enhancements of <b>immunotherapy</b> . <b>Gads are adaptor proteins</b> that promoting & inhibit T cell activation, via different domains of the protein.	<b>FUNDED</b>
23	<b>20180075</b>	<i>Rambam Healthcare Campus</i>	Dr.Rostislav Novak	The identification of precise molecular targets in the treatment of <b>Osteosarcoma</b> , a devastating pediatric cancer for which current therapy is of limited value.	<b>Funding Requested \$22,000.00</b>
24	<b>2018077</b>	<i>Tel Aviv Sourasky Medical Center</i>	Pro. Zelig Ashhar	Will combining CAR T cells therapy and blockade of inhibitory pathways would have a synergistic anti- <b>Multiple Myeloma</b> effect? We expect that a combined treatment can improve CAR Tcell based immunotherapy, providing effective and durable benefit to MM patients.	<b>Funding Requested \$22,000.00</b>

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25 20180079	Assuta Medical Center	Prof. Ofer Shpilberg	Salivary miRNA's as a novel biomarker for diagnosis and prognosis of <b>Multiple Myeloma</b> - Feasibility Study.	<b>FUNDED</b>
26 20180087	Bar-Ilan University	Dr. Nissan Yissachar	<b>Chemotherapies disrupt the healthy communication between gut bacteria &amp; the immune system.</b> Goal is to find new therapeutic approaches to reduce these side effects, & boost anti-cancer therapy.	<b>Funding Requested \$52,000.00</b>
27 20180098	The Hebrew University of Jerusalem	Dr. Yafit Gilboa	<b>Many cancer survivors report cognitive decline impacting their daily lives.</b> We will combine occupational therapy with computerized training in an effort to diminish this decline.	<b>Funding Requested \$22,000.00</b>
28 20180101	Hadassah Medical Center	Dr. Iris Lavon	The mechanistic role of Androgen Receptor (AR) Expression in <b>Glioblastoma Multiforme</b> . The objective is to understand the signaling pathway in which AR expression contributes to cancer.	<b>Funding Requested \$22,000.00</b>

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29	20180113	<i>The Weizmann Institute of Science</i>	Prof Rivka Dikstein	Regulation of stability of mammalian mRNAs by transcription-dependent m6A modification.	<b>Funding Requested</b> <b>\$22,000.00</b>
30	20180115	<i>Tel Aviv University</i>	Dr. Tzafirir Zor	Effects of ceramide 1-phosphate (C1P) on macrophages and cancer cells via TLR4.	<b>Funding Requested</b> <b>\$22,000.00</b>
31	20180118	<i>Rambam Healthcare Campus</i>	Dr. Lena Ilan	<b>Identifying &amp; disrupting key interactions between the two main cancer regulatory pathways, (mTOR &amp; glycolysis)</b> , limiting cancer cells' plasticity & ability to use redundant pathways to reach constant activation that enable cell growth and propagation.	<b>Funding Requested</b> <b>\$22,000.00</b>
32	20180116	<i>The Academic College Tel Aviv-Yaffo</i>	Dr. Michal Braun	Compassion Fatigue (state of tension & preoccupation with traumatized, suffering patients) & Compassion Satisfaction (positive benefits that helping professionals derive working with traumatized, suffering people) among Israeli oncologists.	<b>Funding Requested</b> <b>\$22,000.00</b>
33	20180022	<i>Ben-Gurion University of the Negev</i>	Dr. Dan Levy	Lysine Methylation in <b>Breast Cancer</b> . Work focuses on the protein SETD which preliminary data suggests leads to more aggressive and invasive cancer. Cancer research is shifting to more personalized approaches which require the identification and understanding of expression of biomarkers that modulate breast cancer.	<b>Funding Requested</b> <b>\$22,000.00</b>



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34 20180057	Rambam Healthcare Campus	Dr Neta Milman	The role of micro RNAs Shuttled by Tumor Associated Macrophages in the Development of Chemotherapy Resistance in <b>Pancreatic Cancer</b> . Goal is to identify the molecular mechanism that causes this resistance, enabling us oi make pancreatic tumors responsive to chemotherapy for longer periods of time.	<b>FUNDED</b>
35 20180061	Tel Aviv University	Dr. Neta Erez	Uncovering the role of fibroblasts is facilitating <b>Breast Cancer</b> chemo-resistance & metastasis via pro-inflammatory signaling.Cancer-associated fibroblasts (CAFs) affect the tumor microenvironment such that they promote cancer initiation, angiogenesis, invasion and metastasis.A better understanding may lead to new therapeutic apprioaches.	<b>FUNDED</b>

Israel Cancer Association is the leading and largest health-related organization in Israel but receives no government funding, depending entirely upon private donations.

ICA USA is a nonprofit 501(c)(3) organization established in Palm Beach, Florida.

Our mission is to raise funds for fellowships that support cancer research conducted by brilliant scientists at hospitals, universities and institutions throughout Israel.