

# BREAST CANCER RESEARCH STAMP PROGRAM FUNDED AWARDS



Fiscal Year	Principal Investigator	Amount <sup>1</sup>	Institution	Log Number	Proposal Title
FY99	Roger Daly	\$283,649	Garvan Institute of Medical Research	BC990035	Identification of Novel Prognostic Indicators for Breast Cancer Through Analysis of the EMS1/Cortactin Signaling Pathway
	Thomas Deuel	\$5,000	Scripps Research Institute	BC990698	Novel Angiogenic Domains: Use in Identifying Unique Transforming and Tumor-Promoting Pathways in Human Breast Cancer
	Wolf Heyer	\$111,444	University of California, Davis	BC990034	In Vitro Recombination Activities of the Breast Cancer Predisposition Protein BRCA2
	Elizabeth Musgrove	\$222,652	Garvan Institute of Medical Research	BC990037	Role of Cyclin D1 and p27 in Steroidal Control of Cell Cycle Progression in the Mammary Gland in Vivo
	Sudhir Shah	\$279,000	University of Arkansas	BC990024	Role of a Novel Matrix-Degrading Metalloproteinase in Breast Cancer Invasion
	Lihong Wang	\$317,510	Texas A&M University	BC990044	Scanning Microwave-Induced Acoustic Tomography
	Michael White	\$334,094	The University of Texas Southwestern Medical Center	BC990022	Isolation of Factors That Disrupt Critical Protein/Protein Interactions Within the Telomerase Holoenzyme for Use in Breast Cancer Therapeutics
	Daniel Wreschner	\$225,000	Tel Aviv University	BC990013	Analysis of the Secreted Novel Breast Cancer-Associated MUC1/Zs Cytokine
FY00	Eileen Adamson	\$578,183	Burnham Institute	BC000975	Cripto: A Target for Breast Cancer Treatment
	Emmanuel Akporiaye	\$454,500	The University of Arizona	BC000662	Tumor-Mediated Suppression of Dendritic Cell Vaccines
	Linda Penn	\$296,142	University of Toronto	BC000651	Exploiting the Novel Repressed Transactivator Assay to Identify Protein Interactors and Peptide Inhibitors of the Myc Oncoprotein
FY01	Qiuyin Cai	\$560,144	Vanderbilt University	BC010713	Genetic Polymorphisms, Mitochondrial DNA Damage, and Breast Cancer Risk
	Kermit Carraway	\$427,225	University of California, Davis	BC010296	Identification of a Functional Human Homolog of Drosophila Kek1, an Inhibitor of Breast Tumor Cell Growth
	Preet Chaudhary	\$312,000	The University of Texas Southwestern Medical Center	BC010310	The Role of Ectodysplasin A (EDA) and Its Receptors in the Pathogenesis of Breast Cancer
	Robert Geahlen	\$425,425	Purdue University	BC010725	Characterization of Syk in Breast Carcinoma Cells
	William Rosner	\$454,181	St. Luke's-Roosevelt Hospital Center	BC010710	Autocrine and Paracrine Control of Breast Cancer Growth by Sex Hormone-Binding Globulin

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FY02	Q. Ping Dou	\$491,999	Wayne State University	BC020507	Synthetic Beta-Lactam Antibiotics as a Selective Breast Cancer Cell Apoptosis Inducer: Significance in Breast Cancer Prevention and Treatment
	Andrew Godwin	\$504,000	Fox Chase Cancer Center	BC020911	The Nuclear Death Domain Protein p84N5, a Candidate Breast Cancer Susceptibility Gene
	Archibald Perkins	\$490,500	Yale University	BC021042	Rapid Genomic Approach to Cancer Gene Discovery in Breast Cancer
FY03	Gina Chung	\$490,447	Yale University	BC031926	Quantitative in Situ Assessment of the Somatostatin Receptor in Breast Cancer to Assess Response to Targeted Therapy With 111-in-Pentetreotide
	Rudolf Kaaks	\$367,639	German Cancer Research Center (DKFZ)	BC030208	Fatty Acid Synthesis Gene Variants and Breast Cancer Risk: A Study Within the European Prospective Investigation Into Cancer and Nutrition (EPIC)
	Paul Yaswen	\$508,790	Lawrence Berkeley National Laboratory	BC030545	Functional Analysis of BORIS, a Novel DNA-Binding Protein
	Elad Ziv	\$767,171	University of California, San Francisco	BC030551	Admixture and Breast Cancer Risk among Latinas
FY04	Mina Bissell	\$386,569	Lawrence Berkeley National Laboratory	BC044087	Use of HA-Metal Nanoparticles to Identify and Characterize Tumorigenic Progenitor Cell Subsets in Breast Tumors
	Christina Clarke	\$588,738	Northern California Cancer Center	BC044177	The Hygiene Hypothesis and Breast Cancer: A Novel Application of an Etiologic Theory for Allergies, Asthma, and Other Immune Disorders
	Todd Giorgio	\$453,000	Vanderbilt University	BC043908	Surface Functionalized Nanoparticles and Nanocrystals for Proximity-Modulated, Early Neoplasia Detection, Imaging, and Treatment of Breast Cancer
	Mark Lemmon	\$475,500	University of Pennsylvania	BC044225	Harnessing Novel Secreted Inhibitors of EGF Receptor Signaling for Breast Cancer Treatment
FY05	Kurt Zinn <sup>2</sup>	\$436,500	The University of Alabama at Birmingham	BC050034	Novel Screening and Precise Localization of Early Stage Breast Cancer in Animal Model
	Xin-Yun Huang	\$483,600	Cornell University, Weill Medical College	BC050558	Migrastatin Analogues as Potent Inhibitors of Breast Cancer Metastasis
	Yang Liu	\$448,500	The Ohio State University	BC051613	Hunting for Novel X-Linked Breast Cancer Suppressor Genes in Mouse and Human
	Jianghong Rao	\$468,000	Stanford University	BC050909	Ribozyme-Mediated Imaging of Oncogene Expression in Breast Tumor Cells

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FY06	Gayathri Devi	\$155,085	Duke University Medical Center	BC060434	Modulation of Regulatory T Cells as a Novel Adjuvant for Breast Cancer Immunotherapy
	Amy Lee	\$489,000	University of Southern California	BC060145	A New Mechanism for Estrogen-Starvation Resistance in Breast Cancer
	Yi Li	\$438,455	Baylor College of Medicine	BC060332	The ER/PR Status of the Originating Cell of ER-Negative Breast Cancer
	Shaker Mousa	\$377,620	Albany College of Pharmacy	BC061072	Enhancing the Efficacy of Chemotherapeutic Breast Cancer Treatment With Non-anticoagulant Heparins
	Fraydoon Rastinejad	\$454,500	University of Virginia	BC060108	Structural Characterization of the Interdomain Features of the Estrogen Receptor
FY07	Charlotte Kuperwasser	\$817,500	Tufts University	BC063332	Mechanisms of Breast Cancer Associated With Obesity
	Kimberly Kelly	\$244,450	University of Virginia	BC063128	Genetically Encoded Targeted, Amplifiable, Imaging Agents for Early Detection of Breast Cancer
	Susan Gerbi	\$155,550	Brown University	BC063945	Hormonal Involvement in Breast Cancer Gene Amplification
FY08	Chung Park	\$111,663	North Dakota State University	BC084025	In Utero Exposure to Dietary Methyl Nutrients and Breast Cancer Risk in Offspring
	Maciej Radosz	\$528,939	University of Wyoming	BC083821	Breast Cancer-Targeting Nuclear Drug Delivery Overcoming Drug Resistance for Breast Cancer Therapy
	Ann Hill	\$577,500	Oregon Health and Science University	BC084377	Vaccine Vector for Sustained High-Level Antitumor CTL Response
	Youngjae You	\$503,666	The University of Oklahoma Health Sciences Center	BC084623	Targeted Delivery and Remote-Controlled Release of Chemotherapeutic Agents
	Tiffany Seagroves	\$166,667	The University of Tennessee Health Science Center	BC083846	The Role of HIF-1 Alpha in Breast Cancer: A Positive Factor in Cancer Stem Cell Expansion via Notch?
FY09	Peggy Reynolds	\$730,000	Cancer Prevention Institute of California	BC095145	Hazardous Air Pollutants and Breast Cancer: An Unexplored Area of Risk
	John Wysolmerski	\$620,626	Yale University	BC095546	Effects of Nuclear Parathyroid Hormone-Related Protein Signaling in Breast Cancer
FY10	Pepper Schedin	\$368,125	University of Colorado Denver	BC101904	The Immune Modulatory Program of Post-Partum Involution Promotes Pregnancy-Associated Breast Cancer
	Anthony Leung	\$556,875	Johns Hopkins University	BC101881	The Role of Poly(ADP-Ribose) in microRNA Activity in Breast Cancers

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FY11	Andy Minn	\$399,942	University of Pennsylvania	BC111503	Regulation of Metastasis and DNA Damage Resistance Pathways by Transposable Elements
	Xiaosong Wang	\$409,693	Baylor College of Medicine	BC111902	Copy Number Signature of Recurrent Gene Fusions Reveals Potential Drug Targets in Invasive Breast Cancer
	Susana Gonzalo Hervas	\$58,975	St. Louis University	BC110089	Stabilization of 53BP1 in Triple-Negative and BRCA-Deficient Breast Tumors: A Novel Therapeutic Strategy
FY12	Jing Yang	\$465,000	University of California, San Diego	BC121670	Regulation of Breast Cancer Stem Cell by Tissue Rigidity
	Filippo Giancotti	\$174,837	Memorial Sloan Kettering Cancer Center	BC121829	Autophagy and TGF-Beta Antagonist Signaling in Breast Cancer Dormancy at Premetastatic Sites
FY13	Seth Rubin	\$457,075	University of California, Santa Cruz	BC131294	Inhibition of Retinoblastoma Protein Inhibition
	Geoffrey Luke	\$96,992	Dartmouth College	BC133216	Noninvasive Label-Free Detection of Micrometastases in the Lymphatics With Ultrasound-Guided Photoacoustic Imaging
FY14	Dan Shu	\$364,343	The Ohio State University	BC140428	Ultrastable Nontoxic RNA Nanoparticles for Targeting Triple-Negative Breast Cancer Stem Cells
	Leif Ellisen	\$93,050	Massachusetts General Hospital	BC140903	Defining High-Risk Precursor Signaling to Advance Breast Cancer Risk Assessment and Prevention
	Edward Brown	\$7,457	University of Rochester	BC140798	Prediction of Metastasis Using Second Harmonic Generation
	David DeNardo	\$7,061	Washington University	BC141770	Reprogramming the Metastatic Microenvironment to Combat Disease Recurrence
FY15	Ricardo Bonfil	\$254,765	Wayne State University	BC150621	Discoidin Domain Receptors: Novel Targets in Breast Cancer Bone Metastasis
	Carl Maki	\$254,765	Rush University Medical Center	BC150340	Targeting Prolyl Peptidases in Triple-Negative Breast Cancer
FY16	Sridhar Mani	\$174,992	Albert Einstein College of Medicine	BC161093	Inhibition of Microbial Beta-Glucuronidase as a Strategy Toward Breast Cancer Chemoprevention
	Sophie Lelievre	\$353,879	Purdue University	BC161889	Risk-on-a-Chip for Tailored Primary Prevention of Breast Cancers
FY17	Jogender Tushir-Singh	\$282,378	University of Virginia	BC170197	A Highly Superior and Selective Cancer Immunotherapy-Based Approach for Triple-Negative Breast Cancers
	Pradeep Chaluvally-Raghavan	\$282,378	Medical College of Wisconsin	BC170885	Targeting miR551b to Prevent Tumor Formation and Metastasis of Triple-Negative Breast Cancer

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FY18	David Potter	\$263,717	University of Minnesota Twin Cities	BC180596	Potentiation of Immune Checkpoint Blockade by Inhibition of Epoxyeicosatrienoic Acid-Driven Tumor Respiration
	Abhishek Sharma	\$263,716	Stevens Institute of Technology	BC180833	A Novel Class of Antagonists for Robust Inhibition of Mutant Estrogen Receptor Action in Endocrine-Resistant Metastatic Breast Cancer
FY19	Jeffrey Frost	\$295,109	The University of Texas Health Science Center	BC190383	Targeting the Tumor Microenvironment and Metastatic Niche in Breast Cancer
	Hannah Rabinowich	\$295,110	University of Pittsburgh	BC190622	A New Persistence Mechanism for Drug-Tolerant Breast Cancer Cells
FY20	Weizhou Zhang	\$104,128	University of Florida	BC200100	Developing a Novel PROTAC-Based NR4A1 Degrader for Breast Cancer Therapy
	Eran Andrechek	\$350,000	Michigan State University	BC200335	Amplification Events Altering Tumor Microenvironment That Drive Metastasis in HER2+ Breast Cancer
FY21	Sandy Chang	\$238,342	Yale University	BC210086	Targeting Replication Stress in Triple-Negative Breast Cancer
	Anna Vilgelm	\$238,341	The Ohio State University	BC210483	Harnessing Innate Immunity to Improve Metastatic Breast Cancer Therapy
FY22	Ming-Ru Wu	\$261,673	Dana-Farber Cancer Institute	BC220541	Turning Breast Cancer Cells Against Themselves as the Next-Generation Immunotherapy
	Geoffrey Clark	\$261,673	University of Louisville Research Foundation, Inc.	BC220575	A Direct RAS Pan-Inhibitor as a Novel Strategy for Luminal B Breast Cancer
FY23	Aimilia Gastounioti	\$220,268	Washington University in St. Louis	BC230591	Beyond Breast Density: Novel Clinically Relevant Risk Measures for Breast Cancer in Black Women
	Neil Johnson	\$220,268	The Institute for Cancer Research	BC231127	Investigating PALB2-Mutant Breast Cancer
FY24	Mingye Feng	\$800,643	City of Hope Beckman Research Institute	BC240544	A Role of Peptidylarginine Deiminases in Mediating Immune Evasion of Triple-Negative Breast Cancer
	Timothy Trotter	\$724,500	Duke University	BC240673	Targeting Dormancy-Associated Immune Tolerance to Eliminate Residual Breast Cancer

<sup>1</sup> In some cases, amount represents only a portion of a larger award. For these projects, Breast Cancer Research Program funds combined with Breast Cancer Research Stamp Program funds covered the full award costs.

<sup>2</sup> The original Principal Investigator, Tandra Chaudhuri, Ph.D., is deceased.