



Department of Defense US Army Medical Research and Materiel Command

Fiscal Year 2003 Breast Cancer Research Program Awards List

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INTRODUCTION

The US Army Medical Research and Materiel Command is pleased to present the award list of funded projects for the fiscal year 2003 (FY03) Breast Cancer Research Program (BCRP). Award negotiations were completed on September 30, 2004. The awards were selected by a competitive, two-tier review process. Funding decisions were based upon scientific excellence as evaluated in the first tier of review, followed by programmatic relevance as judged in the second tier of review. These projects represent a diverse portfolio of scientific research in four categories: (1) Training/Recruitment Awards, (2) Research Awards, (3) Infrastructure Awards, and (4) Innovator Awards.

Congressional direction for FY03 specified \$150 million for breast cancer research. Following the receipt of funds, a programmatic strategy was developed, proposals were requested and evaluated, awards were selected, and contract negotiations were completed. A total of 401 awards was made.

The Training/Recruitment Award category includes Predoctoral Traineeship, Postdoctoral, Clinical Research Nurse, Physician-Scientist Training, and HBCU/MI¹ Partnership Training Awards. Predoctoral Traineeship Awards are intended to support promising graduate students studying breast cancer under the guidance of a designated mentor. Postdoctoral Awards should enable recent medical and other doctoral degree graduates to obtain the necessary experience to pursue a career in breast cancer research. In FY03, Postdoctoral Award applications that provided a multidisciplinary training program were given special consideration. Clinical Research Nurse Awards are intended to help prepare nurses for active careers in breast cancer research and testing. Physician-Scientist Training Awards address the critical shortage of physicians performing clinical breast cancer research. HBCU/MI Partnership Training Awards are intended to provide assistance at an institutional level to support collaborations between multiple investigators at an applicant HBCU/MI and an institution with established investigators in breast cancer research, for the purpose of creating an environment that fosters breast cancer research in which the HBCU/MI faculty investigators will receive training toward establishing successful breast cancer research careers.

The Research Award category consists of Clinical Translational Research (CTR) Awards, Idea Awards, and Concept Awards. The intent of CTR Awards is to extend recent findings in breast cancer research that offer the potential to revolutionize the practice of breast cancer care. The intent of Idea Awards is to encourage innovative, high-risk approaches to breast cancer research that have a high probability of revealing new avenues of investigation. The intent of the Concept Awards is to fund the exploration of an initial concept or theory that could give rise to a testable hypothesis. These awards provide investigators with the opportunity to pursue serendipitous observations that may result in sufficient preliminary data to enable the investigator to prepare a hypothesis-based proposal for future research.

¹ Historically Black Colleges and Universities/Minority Institutions

The Infrastructure Award category consists of Breast Cancer Center of Excellence Awards, which are intended to unite a directed, multi-institutional collaboration among highly accomplished scientists from diverse backgrounds and areas of expertise to accelerate the solution of a major overarching problem in breast cancer research.

The intent of the Innovator Awards is to provide accomplished and visionary scholars/investigators from the academic, government, and private sectors with the funding and freedom to pursue creative, potentially breakthrough research that could ultimately accelerate the eradication of breast cancer.

As the funded investigators embark on these projects, the Department of Defense and the US Army gratefully acknowledge the participation of their scientist, clinical, and consumer advisors. The expertise, vision, and diversity of perspectives from all individuals who contributed to this program were vital in developing a sound investment strategy on behalf of all persons affected by breast cancer. It is with great anticipation and excitement that we await the outcomes of this research.

Innovator Awards

Log Number	PI Last Name	PI First Name	PI Institution	Title	Final Budget
BC032225	Elledge	Stephen	Brigham and Women's Hospital	Genomic Approaches for Detection and Treatment of Breast Cancer	\$4,999,931
BC032234	Folkman	Judah	Children's Hospital and Harvard Medical School	Prevention of the Angiogenic Switch in Human Breast Cancer	\$4,981,183

Breast Cancer Center of Excellence Award

Log Number	PI Last Name	PI First Name	PI Institution	Title	Final Budget
BC030054	Sukumar	Saraswati	John Hopkins University	Center of Excellence in Molecular Targeting of Breast Cancer Metastasis	\$10,000,000
BC030152	Press	Michael	University of Southern California	A Genetic, Molecular, and Structural Analysis of Hormonal Carcinogenesis	\$9,835,513
BC030400	Sledge	George	Indiana University	Center of Excellence for Individualization of Therapy for Breast Cancer	\$9,993,496

Clinical Translational Research Awards

Log Number	Last Name	First Name	Institution	Title	Final Budget
BC030289	Disis	Mary	University of Washington	Phase II Study of HER-2/neu Intracellular Domain Peptide-Based Vaccine Administered to Stage IV HER2 Positive Breast Cancer Patients Receiving Trastuzumab	\$1,599,502
BC030280	Clarke	Robert	Georgetown University School of Medicine	Endocrine Therapy of Breast Cancer	\$3,068,974
BC030235	Newman	Edward	Beckman Research Institute of the City of Hope	The Effects of Fluorodeoxycytidine on DNA Methylation and Gene Expression and the Clinical Activity of Fluorodeoxycytidine in Human Breast Cancer	\$1,575,018
BC030292	Harris	Lyndsay	Dana-Farber Cancer Institute	Molecular Classification of Response to Therapy in HER2 Positive, Early Stage Breast Cancer	\$1,989,697

Clinical Research Nurse Awards

Log Number	PI Last Name	PI First Name	PI Institution	Title	Final Budget
BC030307	Hassett	Mary	University of Texas M.D. Anderson Cancer Center	Outcomes by Ethnicity: Sentinel Lymph Node Status in Women with Breast Cancer	\$197,162
BC030491	Boehmke	Marcia	New York State University of, Buffalo	The Development of a Comprehensive Instrument to Measure Symptoms and Symptom Distress in Women after Treatment for Breast Cancer	\$199,722
BC030577	Kenefick	Amy	University of Connecticut	Relationship of Neurocognitive Function to Breast Cancer Treatment and Induced Menopause	\$199,998
BC030940	Doorenbos	Ardith	Michigan State University	Advance Care Planning: Experience of Women with Breast Cancer	\$192,859
BC031640	Wu	Tsu-Yin	University of Michigan	Development of a Tailored Intervention to Promote Breast Cancer Screening Among Immigrant Asian Women Residing in the U.S.	\$199,997
BC031781	Snyder	Carrie	Creighton University	Effect of Reminder Telephone Calls on Mammography Compliance in High-Risk Women	\$149,968

Concept Awards

Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC032250	Padilla De Jesus	Omayra	GE Global Research	Quenchable Fluorescent Microbubbles as Novel Contrast Agents for High Resolution Optical-Ultrasound Imaging Modality	\$155,087.00
BC032256	Dimri	Goberdhan	Evanston Northwestern Healthcare Research Institute	Polycomb Proteins and Breast Epithelial Cell Transformation	\$114,000.00
BC032264	Cohn	Barbara	Public Health Institute	Estrinol, Blood Flow and Breast Cancer Risk	\$88,350.00
BC032288	Selvamurugan	Nagarajan	University of Medicine and Dentistry of New Jersey	MMP-8: A Breast Cancer Bone Metastasis Suppressor Gene	\$116,625.00
BC032299	Daoud	Sayed	Washington State University	Proteomics Characterization of the Molecular Mechanisms of Mutant p53 Reactivation With PRIMA-1 in Breast Cancer Cells	\$110,100.00
BC032317	Patrick Jr.	Charles	University of Texas M.D. Anderson Cancer Center	Biomimetic Composite Scaffold for Breast Reconstruction following Tumor Resection	\$113,250.00
BC032336	Dou	Q. Ping	Wayne State University	Examination of Potential Anti-Tumor Activity of N-Thiolated B-Lactam Antibiotics in Nude Mice Bearing Human Breast Tumors	\$113,250.00
BC032339	Van Dyke	Michael	University of Texas M.D. Anderson Cancer Center	Abolition of Histone Deacetylases by Activated NF-kappaB in Breast Cancer	\$113,250.00
BC032341	Munshi	Anupama	University of Texas M.D. Anderson Cancer Center	Restoration of Radiation Responsiveness of Estrogen-Receptor Negative Breast Cancer Cells	\$113,247.00
BC032356	Ma	Jun	Cincinnati Children's Hospital	Targeting Breast Cancer Cells for Destruction	\$111,750.00
BC032370	Rahman	KM	Wayne State University	The Role of SDF-1alpha and CXCR4 in Metastatic Breast Cancer	\$113,250.00
BC032382	Esteva	Francisco	University of Texas M.D. Anderson Cancer Center	Application of Isotope-Coded Affinity Tags (ICAT) Proteomics Technology to Biomarker Discovery in Breast Cancer	\$113,250.00
BC032403	Mata	John	Oregon State University	Nanoprobe Directed Tumor Imaging Using pH Activated Peptides as Contrast Agent Carriers	\$106,125.00
BC032408	Johnstone	Cameron	University of Pennsylvania	Function Roles of a Novel RHOGAP in Human Breast Cancer Progression and Epithelial-to-Mesenchymal Transition (EMT)	\$118,875.00
BC032424	Dmochowski	Ivan	University of Pennsylvania	129Xe MRI Biosensors for Multiplexed Imaging of Breast Cancer Markers	\$118,875.00
BC032440	Ghosh-Choudhury	Nandini	University of Texas Health Science Center at San Antonio	Dietary Fish Oil in Reducing Bone Metastasis of Breast Cancer Cells	\$109,322.00

BC032448	Hinshaw	Jerald	University of Utah	Deuterated Self Proteins in Immunotherapy: A New Breast Cancer Treatment	\$112,125.00
BC032453	Wong	Lee-Jun	Georgetown University	Functional Significance of Mitochondrial DNA Mutations in Breast Cancer	\$116,401.00
BC032488	Sultan	Ahmed	Georgetown University	Stat5 Activation is Gatekeeper of Epithelial-Mesenchymal Transition Regulation: A Potential Novel Strategy for the Treatment of Human Breast Cancer Invasion	\$116,400.00
BC032492	Sun	Yi	University of Michigan	Screening for Small Molecules that Disrupt IAP-Caspases Binding to Activate Caspases and Induce Apoptosis in Breast Cancers	\$111,570
BC032527	Reilly	Richard	Johns Hopkins University	Can Reproductive Hormones Modulate Host Immunity to Breast Cancer Antigens?	\$122,625
BC032538	Wang	Qian	University of South Carolina	Viral Nanoparticles as Biomolecular Sensors for Targeting Breast Cancer	\$109,125
BC032563	Clare	Susan	Indiana University	Operative Therapy and the Growth of Breast Cancer Micrometastases: Cause and Effect	\$112,875
BC032564	Ionov	Yurij	Roswell Park Cancer Institute	New Tumor Suppressor Genes Related to Breast Cancer	\$131,252
BC032586	Xu	Liang	University of Michigan	Herceptin-Resistance and Overexpression of Anti-Apoptotic Molecule Bcl-XL: A Potential Strategy for Overcoming Resistance to Herceptin	\$111,040
BC032613	Sakamoto	Kathleen	University of California, Los Angeles	Identification of Small Non-Peptidic Ligands that Bind the Scfbeta-TRCP Ubiquitin Ligase to Target the ER for Ubiquitination and Degradation	\$115,875
BC032627	Whitesell	Luke	University of Arizona	A Critical Evolutionary Role for Heat Shock Protein Function in Breast Cancer	\$112,875
BC032641	Heffelfinger	Sue	University of Cincinnati	Mammary Stem Cell Susceptibility to Carcinogenesis	\$115,125
BC032651	Hu	Zhen	University of Medicine and Dentistry, New Jersey	A Novel siRNA-based Approach to Study Mechanisms of Resistance/Action of a New Drug in Treatment of Breast Cancer	\$116,625
BC032655	Frank	Markus	Children's Hospital, Boston	Role of ABCB5 P-Glycoprotein in Breast Cancer Multidrug Resistance	\$121,500
BC032670	Nan	Anjan	University of Maryland, Baltimore	Targetable Polymer - Antiangiogenic Drug Conjugates for Systemic Breast Cancer Therapy	\$111,375
BC032688	Castano	Ana	Massachusetts General Hospital	Treatment of Metastatic Breast Cancer by Photodynamic Therapy Induced Anti-Tumor Immunity in a Murine Model	\$124,396
BC032690	Selander	Katri	University of Alabama at Birmingham	Toll-like Receptor Pathway as Mediator of Bisphosphonate Effects in Breast Cancer	\$108,750
BC032691	Brachmann	Rainer	University of California at Irvine	Transcriptional Gain-of-Function of p53 Mutants Prevalent in Breast Cancer	\$113,813

BC032697	Giblin	Michael	University of Missouri-Columbia	In Vivo Imaging of Breast Cancer Using Radiolabeled Urokinase-Type Plasminogen Activator (uPA) Analogs	\$94,500
BC032752	Haviv	Izhak	University of Melbourne	Analysis of the Contribution of Stem Cells to Breast Cancer Using Microchimerism-Based Y-Chromosome Stains and Histopathology	\$74,293
BC032757	Sundaram	Sujatha	Dartmouth College	Targeting CYP24 Oncogene for Treatment of Breast Cancer	\$119,550
BC032758	Aldaz	Marcelo	University of Texas M.D. Anderson Cancer Center	CtIP (RBBP8), a Critical Player in the Development of Tamoxifen Resistance in Human Breast Cancer	\$113,250
BC032760	Pan	Quintin	University of Michigan	Are Breast Tumor Stem Cells Responsible for Metastasis and Angiogenesis?	\$110,510
BC032779	Hanson	Robert	Northeastern University	Synthesis and Screening of Novel Substituted Biphenyl Proteomimetics as Potential Anti-estrogenic Agents for the Treatment of Hormone-Responsive Breast Cancer	\$117,890
BC032784	Cheng	Jonathan	Fox Chase Cancer Center	Radioimmunotherapeutic Targeting of Breast Cancer Stroma	\$127,313
BC032788	Zheng	Pan	Ohio State University	Development of a Novel Prognostic Marker to Link a Potential Tumor Suppressor Gene at Chromosome 6q to Aberrant Signal Transduction Pathway in Breast Cancer	\$112,125
BC032793	Bennion	Brian	Lawrence Livermore National Laboratory	Computational Characterization and Prediction of Estrogen Receptor Coactivator Binding Site Inhibitors	\$166,005
BC032805	Munn	David	Medical College of Georgia	IDO Expression in Human Breast Cancer	\$107,250
BC032806	Krauss	Sharon	Lawrence Berkeley National Laboratory	Critical Importance of Protein 4.1 in Centrosome and Mitotic Spindle Aberrations in Breast Cancer Pathogenesis	\$126,151
BC032808	Peterson	Derick	University of Rochester	Identification of High-Dimensional Prognostic Gene Signatures for Breast Cancer Survival	\$115,500
BC032809	Guo	Bin	North Dakota State University	A Novel Membrane-Permeable, Breast-Targeting, Pro-Apoptotic Peptide for Treatment of Breast Cancer	\$105,750
BC032810	Sharp	Zelton	University of Texas Health Science Center at San Antonio	Nuclear Dynamics of BRCA1-Dependent Transcription Regulation	\$109,500
BC032821	Murphy	William	University of Nevada, Reno	Proteasome Inhibition with Activated Natural Killer Cells as Immunotherapy in Metastatic Human Breast Cancer	\$108,750
BC032850	Pouliot	Normand	University of Melbourne	Functional Interactions between Laminin-10, alphaV beta3 Integrin and Matrix Metalloproteinase-9 in Promoting Breast Cancer Metastasis to Bone	\$81,000
BC032858	Yarden	Ronit	Sheba Medical Center, Israel	Can Dietary Factors Augment BRCA1 Growth Inhibition and Tumor Suppression of Breast Cancer?	\$83,916

BC032859	Quinn	Timothy	University of California, San Francisco	Killing Breast Cancer Cells with a VEGF-Triggered Cell Death Receptor	\$113,625
BC032878	Chodosh	Lewis	University of Pennsylvania	Role of Mammary Stem Cells in Breast Cancer Progression	\$118,875
BC032900	Howe	Louise	Weill Medical College of Cornell University	Exploration of (beta)-Catenin/TCF Signaling As a Potential Therapeutic Target for HER2/neu-Induced Breast Cancer	\$125,953
BC032903	Barnes	Christopher	University of Texas M.D. Anderson Cancer Center	Targeting the MTA1s-LMO4 Pathway in Hormone Resistance	\$113,250
BC032915	Ip	Margot	Roswell Park Cancer Institute	Conjugated Linoleic Acid (CLA) and the Estrogen Receptor in Prevention of Breast Cancer	\$135,656
BC032923	Nattinger	Ann	Medical College of Wisconsin	National Registry for Assessing Quality of Breast Cancer Care: A Feasibility Study	\$112,500
BC032928	Kim	E	University of Texas M.D. Anderson Cancer Center	New Imaging Kit for Assessment of Estrogen Receptors with Single Photon Emission Computed Tomography	\$113,250
BC032939	Fuqua	Suzanne	Baylor College of Medicine	Cytoskeleton Organization and Tamoxifen Resistance	\$112,875
BC032942	McNamara	LTC Michael	Case Western Reserve University	Algorithmic Correlation of Lesion Location on Film Screen Mammography and Breast Ultrasound	\$113,625
BC032944	Spruck	Charles	Sidney Kimmel Cancer Center	Identification of Genes Involved in Breast Tumor Invasion Utilizing a Ubiquitin-Mediated Proteolysis In Vitro Screen	\$139,725
BC032955	Mohammed	Sulma	Purdue University	Identification of Biomarkers in Lymph Using Proteomic-Based Approach for Early Detection of Breast Cancer Metastasis	\$114,000
BC032978	Rana	Ajay	Texas A&M University	Mixed Lineage Kinase-3: A Potential Target of Cytotoxic Drugs in Breast Cancer	\$109,125
BC032981	Donnenberg	Albert	University of Pittsburgh	Differential MDR Activity in Breast Cancer Stem Cells	\$110,163
BC032990	Lelièvre	Sophie	Purdue University	Early Diagnosis of Breast Cancer by Identifying Malignant Cells within Neoplasias Histologically Classified as Benign	\$114,000
BC032992	Giordano	Tony	Louisiana State University Health Sciences Center	Development of RNAi Libraries for Target Validation and Therapeutics	\$108,750
BC033000	Balatoni	Julius	University of Texas M.D. Anderson Cancer Center	New Positron-Emitting Probe for Imaging Cell Proliferation in Breast Cancer	\$113,250
BC033005	Shin	Seung-Uon	University of Miami	Antibody-NKG2D Ligand (Rae-1beta) Fusion Protein for Breast Cancer Therapy	\$113,625
BC033007	Levy	Shawn	Vanderbilt University	Simultaneous Profiling of Protein and RNA Expression by Mass Spectrometry in Intact Breast Tissue Samples	\$113,250

BC033017	Jaffe	Jules	Scripps Institution	Refining Functional Optical Imaging of the Breast with Quantum Dots	\$84,669
BC033032	Iwaniec	Urszula	University of Florida	Central Leptin Gene Therapy to Reduce Breast Cancer Risk Factors	\$109,125
BC033037	Avraham	Hava	Beth Israel Deaconess Medical Center	Targeting RNA Stabilization to Reduce Growth Factor Expression in Breast Cancer Cells	\$127,500
BC033038	Sukumar	Saraswati	Johns Hopkins University	Cellular Plasticity of Epithelial Cells-Cause of Metastasis?	\$122,625
BC033042	Syud	Faisal	GE Global Research	Pretargeting Technology with PNA's	\$160,235
BC033052	Hathaway	Helen	University of New Mexico	Functional Characterization of a Novel Estrogen-Dependent Signaling Pathway in the Mammary Gland	\$112,500
BC033054	Luna	Elizabeth	University of Massachusetts Medical School	Lipid Raft Membrane Skeletons and Regulation of Metastatic Invasion	\$119,116
BC033066	Zhan	Min	University of Maryland at Baltimore	Associations of Tamoxifen Metabolism and Tamoxifen-Related Side Effects with Race and Smoking Status in Women with Breast Cancer	\$111,295
BC033083	Kennaway	David	University of Adelaide	Clock Genes: Critical Modulators of Breast Cancer Risk?	\$97,015
BC033108	Kuperwasser	Charlotte	Tufts University	A Potential Mechanism of Breast Cancer Promotion Associated with Pregnancy: Endothelial Precursor Cell Recruitment by PTHrP	\$117,875
BC033115	Gromeier	Matthias	Duke University	Targeting Breast Cancer CNS Metastasis with Oncolytic Polioviruses	\$115,500
BC033117	Latimer	Jean	University of Pittsburgh	Genetic Analysis of DNA Repair Deficiency in Novel Non-Tumor Adjacent and Tumor Cell Lines Suggests a New Paradigm of Breast Cancer Etiology	\$114,000
BC033125	Reed	Scott	Portland State University	Nanoparticle Enhanced Optical Diagnosis and Treatment of Breast Cancer	\$106,500
BC033132	Detty	Michael	New York, State University, Buffalo	Thio and Seleno Rhodamine Derivatives as Reversal Agents of Multidrug Resistance in Breast Cancer	\$110,488
BC033149	Nie	Daotai	Wayne State University	A Tissue Engineering Approach to Study the Progression of Breast Cancer Metastasis in Bone	\$112,725
BC033154	Liu	Jingwen	Palo Alto Institute	Breast Cancer Specific Gene 1 is a Potential Novel Biomarker for Selected Application of Anti-Microtubule Drugs for the Treatment of Breast Cancer Patients	\$90,900
BC033168	Sytkowski	Arthur	Beth Israel Deaconess Medical Center	Selenium and Breast Cancer Growth	\$127,500
BC033171	Yu	Dihua	University of Texas M.D. Anderson Cancer Center	The Role of HER-2 in Breast Cancer Bone Metastasis	\$113,250

BC033174	Iwamoto	Keisuke	California, University of, Los Angeles	The Mechanistic Role of Iodine in Breast Carcinogenesis	\$115,313
BC033189	Sinha	Subhash	Scripps Research Institute	HerTax, A Novel HER2-Targeting mAb Construct	\$140,775
BC033198	Linden	Hannah	University of Washington	T1 Androgen-AR Axis in ER+ Breast Cancer	\$113,689
BC033203	Kaliberov	Sergey	University of Alabama at Birmingham	Therapy of Breast Cancers Using Conditionally Replicating Adenovirus	\$108,750
BC033226	La Riviere	Patrick	University of Chicago	Development of Protease-Activable Imaging Agents for In Vivo Optoacoustic Molecular Tomography of Breast Cancer	\$108,131
BC033258	Tomita	York	Georgetown University	A Universal Screening System for Discovering Selective Kinase Inhibitors	\$116,400
BC033262	Adhami	Vaqar	University of Wisconsin	Association between Microtubule Associated Protein-2 and the EGRF Signaling in Breast Cancer	\$109,125
BC033270	Wilson	Cindy	California, University of, Los Angeles	Role of the ROR1 Receptor Tyrosine Kinase in Basal, ER-Negative Breast Cancer	\$115,251
BC033275	Maslen	Cheryl	Oregon Health & Science University	The Role of CRELD1 Isoform 9B in the Pathogenesis of Breast Cancer	\$113,250
BC033278	Wilson	Cindy	California, University of, Los Angeles	Signaling from a Novel Receptor Tyrosine Kinase and the Control of Multi-potent Mammary Progenitor Cells	\$115,251
BC033280	Yount	Garret	California Pacific Medical Center Research Institute	Novel Migration Behavior of Breast Cancer Cells May Predict Metastatic Potential	\$120,000
BC033289	Ljungman	Mats	University of Michigan	Use of Nascent RNA and DNA Microarrays to Study Inducible Gene Expression in Breast Cancer Cells	\$114,750
BC033297	Chrivia	John	St. Louis University	Chromatin Regulation of Estrogen-Mediated Transcription in Breast Cancer: Rules for Binding Sites in Nucleosomes and Modified Histones that Enhance ER Binding	\$110,250
BC033306	Hursting	Stephen	National Cancer Institute	The Effects of Obesity on Mammary Tumorigenesis, Metastases and Hormones in Transgenic Mice	\$75,000
BC033311	Ghosh	Sajal	Boston University	Do EBV Encoded Small RNAs Interfere with Tumor Suppressor APC in EBV Associated Breast Cancers?	\$121,125
BC033334	MacDonald	Carolyn	State University of New York, Albany	Wide Field Coherent Scatter Mammographic Imaging	\$104,988
BC033336	Chepko	Gloria	Georgetown University	Role of the Stem Cell Niche in Hormone-Induced Tumorigenesis in Fetal Mouse Mammary Epithelium	\$116,400
BC033353	Lu	Weixin	University of Texas M.D. Anderson Cancer Center	Pathogenesis and Blood-Brain Barrier Heterogeneity of Breast Cancer Brain Metastasis	\$113,160

BC033378	Wu	Dongdong	BioStar, LLC	Retrotransposon Targeting of Tumor Cells	\$120,000
BC033380	Peterson	Blake	Pennsylvania State University	Novel Anticancer Agents that Block Dissociation of Hsp90 from Estrogen Receptors in Breast Cancers	\$106,927
BC033382	Bromberg	Michael	Temple University	Targeting Protease Activated Receptor 2 in Human Breast Cancer	\$112,875
BC033394	Li	Tonglei	University of Kentucky	Development of Novel Ligand-Drug Hybrid Nanocrystals to Target Breast Cancer	\$107,882
BC033399	Telmer	Cheryl	SpectraGenetics LLC	Test for Sensitive Detection and Accurate Assignment of TP53 Variants in Tumor DNA	\$103,500
BC033410	Gewirtz	David	Virginia Commonwealth University	Stimulation of Breast Tumor Cell Proliferative Recovery by the Peptide Hormone Erythropoietin	\$107,750
BC033413	Yang	Chia-Ping	Albert Einstein College	Taxol Mediates Overexpression and Modification of a Mitotic Checkpoint Protein CENP-E in Breast Cancer Cells	\$125,250
BC033416	Gu	Lina	Beth Israel Deaconess Medical Center, Boston	Mechanisms of ErbB2 Tyrosine Kinase Regulation in Breast Cancer	\$127,500
BC033427	Avraham	Hava	Beth Israel Deaconess Medical Center	CD133 (AC133) as a Marker for Breast Cancer Stem Cells in Human Breast Tumors	\$127,500
BC033433	Kaminski	Rafal	Beth Israel Deaconess Medical Center	The Role of Mammary Stem Cells in Neu/erbB2 Mediated Carcinogenesis	\$127,500
BC033451	Mistry	Sucharita	Mount Sinai School of Medicine	Mitotic Spindle-Directed Therapeutics for Early Stage Breast Carcinoma	\$127,125
BC033458	Chada	Kiran	University of Medicine and Dentistry of New Jersey	HMGA2 and Cyclin A in the Progression of Breast Cancer	\$116,625
BC033464	Berger	Sondra	University of South Carolina	Nutritional Status, DNA Damage, and Tumor Pathology	\$109,125
BC033468	Schoenlein	Patricia	Medical College of Georgia	Antiestrogen Resistance in Breast Cancer and the Role of ErbB-4	\$107,250
BC033496	Cavalli	Luciane	Georgetown University	Detection of Genetic Alterations in Breast Sentinel Lymph Node by Array-CGH	\$116,400
BC033501	Vishwanatha	Jamboor	University of Nebraska	Breast Cancer Therapy with Annexin II Nanoparticles	\$110,250
BC033521	Bathe	Oliver	University of Calgary	Vaccination against Novel Antigens on Breast Cancer Vascular Endothelium	\$93,738
BC033538	Menendez	Javier	Evanston Northwestern Healthcare	Characterization of Fatty Acid Synthase (FAS) as a Predictive Marker of Breast Cancer Sensitivity to Chemotherapy	\$114,000

BC033540	Foulkes	William	McGill University	Breast Cancer in Three Dimensions: Revealing Telomere Dysfunction in Breast Cancer	\$80,611
BC033553	Lupu	Ruth	Evanston Northwestern Healthcare	Development of a Universal Chemo-Sensitizer to Support Breast Cancer Treatment Based on the Heregulin Sequence	\$114,000
BC033568	Stearns	Tim	Stanford University	Creating Tumor-Specific Breast Cancer Therapeutics: An Assay for Tubulin Isotype-Specific Antimicrotubule Drugs	\$106,190
BC033570	Benjamin	Laura	Beth Israel Deaconess Medical Center	Transformation-Dependent Regulation of Signaling	\$127,500
BC033600	Ahmed	Maryam	Wake Forest University	Sensitivity of Breast Tumors to Oncolytic Viruses	\$107,559
BC033605	Muthuswamy	Senthil	Cold Spring Harbor Laboratory	Rapid Mouse Models to Investigate Genetic Interactions between Regulators of Epithelial Cell Polarity and Oncogenes during Mammary Tumorigenesis	\$126,953
BC033624	Daniel	Larry	Wake Forest University	Platelet Activating Factor: A Growth Factor for Breast Cancer	\$107,625
BC033632	Zhang	Xiao-kun	Burnham Institute	Bcl-2 Conformational Change as an Indicator of Chemotherapy Response	\$143,250
BC033636	Hann	Stephen	Vanderbilt University	Potential Therapeutic Uses of p19ARF Mimics in Mammary Tumorigenesis	\$113,250
BC033639	Shafirstein	Gal	University of Arkansas	Intraoperatively, In Vivo, Optical Diagnosis of Negative Margins, following Thermal Ablation	\$106,233
BC033641	Adams	Swann	University of South Carolina	Co-occurrence of Diabetes and Breast Cancer among Women by Ethnicity	\$90,834
BC033645	Zhu	Jian-Ming	Wake Forest University	Fast and Accurate MR Spectroscopic Imaging for Early Detection of Breast Cancer	\$107,051
BC033651	Bedalov	Antonio	Fred Hutchinson Cancer Research Center	Novel Compounds Targeting Chromatin as Therapy in Breast Cancer: A Chemical Genetic Approach	\$129,750
BC033653	Wen	Yue-Jin	University of Arkansas	Therapeutic Potential of a Novel ER Ligand Estren in Breast Cancer	\$106,500
BC033654	Hrushesky	William	VA Medical Center, Columbia, SC	Sage Gene Expression Profiles Characterizing Cure	\$86,250
BC033665	Aloyz	Raquel	McGill University	Disruption of Brca2-Rad51 Complex in Breast Cancer Cells: Therapeutic Implications	\$74,264
BC033684	Tong	William	University of Texas M.D. Anderson Cancer Center	In Vivo Imaging Agent for Histone Deacetylase	\$113,244
BC033693	Sharp	David	Albert Einstein College	Chromokinesins: Possible Generators of Cancer-Associated Aneuploidy	\$116,640

BC033696	Oberai	Assad	Boston University	Towards the Early Detection of Breast Cancer in Young Women	\$121,125
BC033698	Petti	Lisa	Albany Medical College	Identification of a Potent Apoptotic Peptide Produced by Fibroblasts; Studies Towards the Design of a Novel Agent for Breast Cancer Therapy	\$118,500
BC033701	Banka	Carole	La Jolla Institute for Molecular Medicine	Estrogen-Host Interactions: A Novel Approach to Analyze the Role of Sex Steroids in Tumor Metastasis	\$146,621
BC033714	Batist	Gerald	McGill University	Chemical Modulators of Keap1/Nrf2 Interaction as Breast Cancer Prevention Agents	\$92,719
BC033717	Latimer	Jean	University of Pittsburgh	Identification of Stem Cells in a Novel Human Mammary Epithelial Culture HMEC System that Reproducibly Demonstrates Ductal Organotypic Architecture in 3 Weeks	\$114,000
BC033728	Boyd	Jeff	Memorial Sloan-Kettering Cancer Center	Prediction of Breast Cancer Risk by Whole Genome Profiling	\$126,375
BC033733	Muimo	Richmond	University of Sheffield	Phosphohistidine Signalling in Breast Epithelia	\$95,037
BC033737	Pagel	Mark	Case Western Reserve University	Novel Molecular Imaging Agents to Detect Biomarkers of Metastatic Breast Cancer	\$114,750
BC033740	Qi	Chao	Northwestern University	Identification of Novel Tumor Suppressor Genes for Breast Cancer	\$111,375
BC033745	Batist	Gerald	McGill University	The Small RNAs Profile of Breast Cancer Versus Normal Cells	\$101,460
BC033761	Yang	Victor	University of Michigan	Novel Approach for Simultaneous Imaging and Protein Transduction Therapy for Breast Cancer	\$112,532
BC033764	Batist	Gerald	McGill University	Induction of Ephs/Ephrins-Mediated Tumor Cells-Endothelial Cells Repulsion as an Anti-Cancer Therapeutic Approach	\$101,460
BC033768	Creighton	Donald	University of Maryland, Baltimore	Using Glutathione Transferase to Generate Nitric Oxide in MDR Breast Tumors	\$110,250
BC033780	Penn	Sharron	Nanoplex Technologies, Inc.	Particles for Nanoscale Proteomics	\$145,800
BC033788	Azizkhan-Clifford	Jane	Drexel University	Role of Ca ²⁺ in Homologous Recombination and Response to DNA Damage in Breast Cancer	\$111,939
BC033799	Yang	Shanmin	University of Rochester	Targeting of Breast Cancer with Triptolide Nanoparticle	\$117,000

Idea Awards

Log Number	PI Last Name	PI First Name	Institution	Title	Final Budget
BC030012	Chen	Xiaoyuan	University of Southern California	Alpha-v Integrin Targeted PET Imaging of Breast Cancer Angiogenesis and Low-Dose Metronomic Anti-Angiogenic Chemotherapy Efficacy	\$487,566
BC030053	Carson	Dennis	University of California, Los Angeles	Optimized NSAIDs for Breast Cancer Prevention	\$456,000
BC030061	Tycko	Benjamin	Columbia University	Chromosome 21 and Breast Cancer Suppression	\$490,500
BC030076	Gould	Michael	University of Wisconsin	Characterizing a Rat Brca2 Knockout Model	\$436,159
BC030139	Ashing-Giwa	Kimlin	University of California, Los Angeles	Reducing the Burden of Breast Cancer: A Focus on African-American and Latina Survivors	\$945,889
BC030167	Spanjaard	Remco	Boston University	Role of ei24/PIG8, a Putative Pro-Apoptotic Tumor Suppressor, in Breast Cancer Development and Resistance to Drug Therapy	\$484,500
BC030214	Wicha	Max	University of Michigan	Chemo Resistance of Breast Cancer Stem Cells	\$421,365
BC030242	Weihs	Karen	George Washington University	Longitudinal Effects of Intimate Partner Relationship Quality on Serum Oxytocin Levels in Newly Diagnosed Breast Cancer Patients	\$899,513
BC030254	Leahy	Daniel	Johns Hopkins University School of Medicine	Structure and Mechanism-Based Design of ErbB Receptor Inhibitors	\$490,499
BC030377	Wells	Alan	University of Pittsburgh	An Organotypic Liver System for Tumor Progression	\$361,241
BC030499	Neufeld	Gera	Technion - Israel Institute of Technology	The Role of the Lysyl-Oxidases as Inducers of Desmoplasia and Tumor Invasion in Breast Cancer	\$340,630
BC030507	Weatherman	Ross	Purdue University	Chemical Probes of Rapid Estrogen Signaling in Breast Cancer Treatment and Chemoprevention	\$434,110
BC030518	Jeong	Jong-Hyeon	University of Pittsburgh	Statistical Modeling on Life Expectance of Breast Cancer Patients	\$231,170
BC030523	Bornhop	Darryl	Texas Tech University	Molecularly Targeted Agents for Improved Breast Cancer Diagnosis	\$400,830
BC030542	Lu	Bo	Vanderbilt University	Radiation Sensitization in Breast Cancer via Targeting Survivin Expression	\$453,000
BC030545	Yaswen	Paul	Lawrence Berkeley National Laboratory	Functional Analysis of BORIS, a Novel DNA-Binding Protein	\$508,790

BC030697	Beebe	David	University of Wisconsin - Madison	The Development and Use of Micro-Scale Experimental Constructs to Study Mouse Mammary Epithelial Progenitor Cell Regulation Mechanisms	\$423,895
BC030705	Dai	Xing	University of California, Irvine	Role of the Mouse Pygopus 2 Gene and Wnt Signaling in Normal and Malignant Development of Mammary Glands and Hair Follicles	\$456,000
BC030727	Gabrielson	Kathleen	Johns Hopkins University School of Medicine	Akt Rescue in Cardiomyocytes but not Breast Cancer Cells after Doxorubicin and Anti-erbB2 Treatment	\$490,495
BC030737	Zhao	Wei	State University of New York at Stony Brook	SAPHIRE: A New Flat-Panel Digital Mammography Detector with Avalanche Photoconductor and High-Resolution Field Emitter Readout	\$406,212
BC030755	Li	Yi	Baylor College of Medicine	Developing a Novel Mouse Model for Breast Cancer by Targeting Oncogenes to Mammary Progenitor Cells	\$433,321
BC030756	Oesterreich	Steffi	Baylor College of Medicine	The Scaffold Attachment Factor SAFB1: A New Player in G2/M Checkpoint Control?	\$450,840
BC030757	Keri	Ruth	Case Western Reserve University	Id2 as an Integrator of Oncogenic Stimuli in Breast Cancer	\$457,953
BC030797	Hovey	Russell	University of Vermont	A New and Authentic Model for Human Breast Development and Breast Cancer	\$374,925
BC030798	Iyer	Vishwanath	University of Texas at Austin	Genome-Wide Chromosomal Targets of Oncogenic Transcription Factors	\$432,513
BC030802	Raatz	Susan	University of Minnesota	Dietary Fat, Eicosanoids and Breast Cancer Risk	\$421,314
BC030856	Hu	Jifan	GMR Epigenetics	DNA Methylation-Induced Transcriptional Repression of the HER2 Oncogene for the Treatment of Metastatic Breast Cancer	\$419,163
BC030870	Thomas	Michael	University of California, Los Angeles	Biochemical and Anatomical Correlates of Human Breast Cancer In Vivo	\$424,299
BC030928	Lockley	Steven	Brigham and Women's Hospital	Reproductive and Hormonal Risk Factors for Breast Cancer in Blind Women	\$374,766
BC030946	Stampfer	Martha	Lawrence Berkeley National Laboratory	Regulation of hTERT Expression and Function in Newly Immortalized p53(+) Human Mammary Epithelial Cell Lines	\$535,625
BC030947	Erramilli	Shyamsunder	Boston University	Development of Nanomechanical Sensors for Breast Cancer Biomarkers	\$484,500
BC030968	Arcasoy	Murat	Duke University School of Medicine	Role of Erythropoietin and Erythropoietin Receptor Expression and Function in the Pathobiology of Breast Cancer	\$462,000
BC030994	Smith	Carolyn	Baylor College of Medicine	Negative Regulation of Estrogen Receptor-alpha Expression in Breast Cancer	\$451,500
BC030997	Gemignani	Mary	Memorial Sloan-Kettering Cancer Center	PET and Hormone Receptor Ligands in Breast Cancer	\$410,481

BC031010	Vuori	Kristiina	The Burnham Institute	Cas Signaling in Breast Cancer	\$576,000
BC031057	Yao	Tso-Pang	Duke University	Modulating EGFR Signaling by Targeting the Deacetylase HDAC6-Hsp90 Complex in Breast Tumors	\$453,670
BC031067	Jacobson	Herbert	Albany Medical College	Exploiting for Breast Cancer Control a Proposed Unified Mechanism for Reduction of Human Breast Cancer Risk by the Hormones of Pregnancy	\$474,000
BC031079	Reisfeld	Ralph	The Scripps Research Institute	An Oral DNA Vaccine Encoding Endoglin Eradicates Breast Tumors by Blocking Their Blood Supply	\$563,100
BC031080	Joukov	Vladimir	Dana-Farber Cancer Institute	The Role of BRCA1/BARD1 Heterodimers in the Mitosis-Interphase Transition	\$513,000
BC031105	Lee	Jiing-Dwan	The Scripps Research Institute	Molecular Action of a Potential Tumor Suppressor in Mammary Carcinogenesis	\$563,100
BC031107	Sgroi	Dennis	Massachusetts General Hospital	Prediction of Breast Cancer Outcome Using a Gene Expression Signature	\$519,000
BC031127	Brown	J. Martin	Stanford University	A Novel Yeast Genomics Method for Identifying New Breast Cancer Susceptibility Genes	\$469,242
BC031205	Marmorstein	Ronen	The Wistar Institute	Structure-Based Design of Molecules to Reactivate Tumor-Derived p53 Mutations	\$468,446
BC031209	Selander	Katri	University of Alabama at Birmingham	Bisphosphonate Activation of MAP-Kinases in Breast Cancer	\$435,000
BC031226	Millhorn	David	University of Cincinnati-Genome Research Institute	Role of Hypoxia-Induced Gene Expression in Breast Cancer Metastasis	\$460,464
BC031231	Maltese	William	Medical College of Ohio	Functional Analysis of the Beclin-1 Tumor Suppressor Interaction with hVps34 (Type-III PI 3' -Kinase) in Breast Cancer Cells	\$441,000
BC031247	Sieber	Fritz	Medical College of Wisconsin	Proteinated Subnano Particles of Elemental Selenium for the Treatment of Breast Cancer	\$450,000
BC031248	Hanson	Robert	Northeastern University	Development of Novel Technetium-99m-Labeled Steroids as Estrogen-Responsive Breast Cancer Imaging Agents	\$386,322
BC031263	Miele	Lucio	University of Illinois at Chicago	Gamma-Secretase and Notch Signaling: Novel Therapeutic Targets in Breast Cancer	\$467,610
BC031272	Baylin	Stephen	The Johns Hopkins University	Hypermethylation of AP-2alpha as a Prognostic Marker for DCIS	\$490,500
BC031275	Valdimarsdottir	Heiddis	Mount Sinai School of Medicine	Emotional, Biological, and Cognitive Impact of a Brief Expressive Writing Intervention for African American Women at Familial Breast Cancer Risk	\$928,137
BC031437	Evan	Gerard	University of California, San Francisco	A Novel Mouse Model for Genetic Validation of Therapeutic Targets in Breast Cancer	\$454,462

BC031489	Wei	Wei-Zen	Wayne State University	Amplification of Anti-Tumor Immunity Without Autoimmune Complications	\$453,000
BC031526	Rosenberg	Susan	Baylor College Of Medicine	DNA Double-Strand Break-Repair and Breast Cancer: Improved Identification of Caretaker Genes and Their Functions	\$451,500
BC031604	Ross	Theodora	University of Michigan	Identification of Potential Therapeutic Mechanisms for HIP1 Inhibition in Breast Cancer	\$426,660
BC031649	Baccala	Roberto	The Scripps Research Institute	Homeostatic T Cell Expansion to Induce Anti-Tumor Autoimmunity in Breast Cancer	\$563,100
BC031685	Antich	Peter	University of Texas Southwestern Medical Center at Dallas	Investigation of Metastatic Breast Tumor Heterogeneity and Progression Using Dual Optical/SPECT Imaging	\$467,886
BC031686	Kassis	Amin	Harvard Medical School	Radiodetection and Radiotherapy of Breast Cancer	\$503,294
BC031694	Colicelli	John	University of California, Los Angeles	Therapeutic Insights From a Novel Breast Tumor Suppressor Pathway	\$447,255
BC031713	Yull	Fiona	Vanderbilt University Medical Center	Manipulation of NF-kappaB Activity in the Macrophage Lineage as a Novel Therapeutic Approach	\$453,000
BC031745	Walker	William	University of Virginia	Constrained Adaptive Beamforming for Improved Contrast in Breast Ultrasound	\$342,638
BC031786	Gulsen	Gultekin	University of California, Irvine	3D Tomographic Bioluminescence System for Noninvasive Assessment of Molecular Mechanisms Underlying Metastatic Progression in Mice	\$288,722
BC031799	Ebbinghaus	Scot	University of Arizona	Specific Inhibition of HER-2/neu Transcription Initiation	\$452,000
BC031828	Coyne	James	University of Pennsylvania	Using the Internet to Collaborate with Consumers in Redefining a Psychosocial Agenda for Families with Hereditary Breast Cancer	\$473,519
BC031841	Chodosh	Lewis	University of Pennsylvania	Role of Snail in Breast Cancer Progression	\$474,571
BC031865	Ford	James	Stanford University School of Medicine	Loss of Nucleotide Excision Repair as a Source of Genomic Instability in Breast Cancer	\$480,000
BC031866	Mohammed	Sulma	Purdue University	Canine Model for ER-Negative Breast Cancers in Women	\$450,000
BC031880	Romesberg	Floyd	The Scripps Research Institute	Inhibition of Mutation: A Novel Approach to Preventing and Treating Cancer	\$563,100
BC031920	Holt	Shawn	Virginia Commonwealth University	Defining the Regulation of Telomerase through Identification of Mammary-Specific Telomerase Interacting Proteins	\$441,684
BC031926	Chung	Gina	Yale University School of Medicine	Quantitative in Situ Assessment of the Somatostatin Receptor in Breast Cancer to Assess Response to Targeted Therapy with 111-in-Pentetreotide	\$490,447

BC031962	Lin	Weei-Chin	University of Alabama at Birmingham	The Role of TopBP1 in Breast Cancer	\$435,000
BC031964	Broome	Carolyn	Howard University	Gene Expression in African American Breast Cancer	\$447,000
BC031982	Conklin	Douglas	University at Albany	Functional Genomic Analysis of Breast Cancer Cell Tumorigenicity Using a Novel Gene Silencing Resource	\$448,442
BC031983	Yazici	Birsen	Drexel University	Concurrent MR-NIR Imaging for Breast Cancer Diagnosis	\$348,848
BC031992	Pauli	Bendicht	Cornell University	Rho, NHE, and Fibronectin Cooperate to Promote Pulmonary Metastasis	\$474,000
BC032012	Polyak	Kornelia	Dana-Farber Cancer Institute	The Role of CXCL12 and CXCL14 Chemokines in Epithelial Stromal Cell Interactions during Breast Tumor Progression	\$513,000
BC032026	Kitajewski	Jan	Columbia University	Role of Notch/VEGF-Receptor 3 in Breast Tumor Angiogenesis and Lymphangiogenesis	\$452,032
BC032032	Hardman	Wanda	Pennington Biomedical Research Center	Omega 3 Fatty Acids to Retard Breast Cancer Progression	\$429,173
BC032075	Ranscht	Barbara	The Burnham Institute	Stromal T-cadherin as a Regulator of Breast Cancer Growth	\$576,000
BC032090	Smith	Jeffrey	The Burnham Institute	Orlistat as a Novel Anti-Tumor Agent	\$340,140
BC032125	Couch	Fergus	Mayo Foundation	AURORA-A as a Modifier of Breast Cancer Risk in BRCA1/2 Mutation Carriers	\$438,000
BC032138	Penn	Linda	Ontario Cancer Institute University of Toronto	Detecting and Targeting Oncogenic Myc in Breast Cancer	\$388,647
BC032144	Shi	Yuenian	North Shore-Long Island Jewish Research Institute	Stimulation of Estrogen Receptor Signaling in Breast Cancer by a Novel Chaperone Gamma Synuclein	\$476,320

Idea-Epidemiology Awards

Log Number	Last Name	First Name	Institution	Title	Final Budget
BC030208	Kaaks	Rudolf	International Agency for Research on Cancer	Fatty Acid Synthesis Gene Variants and Breast Cancer Risk; a Study within the European Prospective Investigation into Cancer and Nutrition (EPIC)	\$367,639
BC030295	Muti	Paola	New York, State University of, Buffalo	Endogenous 6-Hydroxymelatonin Excretion and Subsequent Risk of Breast Cancer: A Prospective Study	\$471,000
BC030551	Ziv	Elad	California, University of, San Francisco	Admixture and Breast Cancer Risk among Latinas	\$767,171
BC031746	Chen	Jia	Mount Sinai School of Medicine	One-Carbon Metabolism and Breast Cancer Survival in a Population-Based Study	\$854,578
BC032028	Le Marchand	Loic	University of Hawaii	Nutritional and Genetic Determinants of Early Puberty	\$848,218

***Historically Black Colleges and Universities/Minority Institutions
(HBCU/MI) Partnership Training Award***

Log Number	PI Last Name	PI First Name	PI Institution	Title	Final Budget
BC030300	Rosenzweig	Nitsa	Xavier University of Louisiana	Developing Breast Cancer Program at Xavier; Genomic and Proteomic Analysis of Signaling Pathways Involved in Xenohormone and MEK5 Regulation of Breast Cancer	\$1,387,865

Physician-Scientist Training Awards

Log Number	PI Last Name	PI First Name	Institution	Title	Final Budget
BC030128	DeMore	Nancy	University of North Carolina at Chapel Hill	Characterization of Gene Expression in Human Breast Tumor Endothelium	\$552,169
BC031660	Park	Catherine	University of California, San Francisco	Tailoring Radiation Therapy for Breast Cancer	\$700,000
BC031789	Palomares	Melanie	University of Washington	Clinical Correlation of a Quantitative Molecular Method to Monitor Circulating Breast Cancer Cells	\$596,662
BC031803	Moulder	Stacy	H. Lee Moffitt Cancer Center and Research Institute	The Use of DNA Microarray to Determine Pathways of Metastasis, Immune Modulation and Resistance to Therapy in Breast Cancer	\$314,544

Predocctoral Traineeship Awards

Log Number	PI Last Name	PI First Name	Institution	Title	Final Budget
BC030018	Huang	Yafei	The University of Texas Medical Branch	Early Markers for Breast Cancer Risk in Nipple Aspirate Fluid	\$89,898
BC030019	Klein	Daryl	University of Pennsylvania School of Medicine	Mechanisms of Inhibition of the Epidermal Growth Factor Receptor: Implications for Novel Anti-Cancer Therapies	\$90,000
BC030039	Campoli	Michael	Roswell Park Cancer Institute	CTL-Tumor Cell Interaction: The Generation of Molecular Probes Capable of Monitoring the HLA-A*0201-HER-2/neu Peptide Complex	\$89,907
BC030048	Skala	Melissa	University of Wisconsin Madison	Optical Spectroscopy and Multiphoton Imaging for the Diagnosis and Characterization of Hyperplasias in the Mouse Mammary Gland	\$89,922
BC030089	Walton	Katherine	Duke University	Gene Networks Involved in Epithelial to Mesenchymal Transitions	\$90,000
BC030134	Santi-Ruiz	Luisel	Georgetown University	DNA Repair Gene Polymorphisms in Hereditary and Sporadic Breast Cancer	\$89,955
BC030168	Nunez	Sabrina	Cold Spring Harbor Laboratory	Senescence Evasion during Cancer Progression	\$90,000
BC030169	Salant	Talya	University of Chicago	Ethnic and Cultural Dimensions of Risk Assessment and Preventive Decision-Making in a High Risk Breast Cancer Clinic	\$89,997
BC030177	Dobrzycka	Klaudia	Baylor College of Medicine	The Role of Scaffold Attachment Factor SAFB1 in Breast Tumor Suppression	\$90,000
BC030194	Lubawy	Carmalyn	University of Wisconsin	Near Infrared Spectroscopy for Improving Breast Core Needle Biopsy	\$85,943
BC030217	Wagener	Brant	University of New Mexico Health Sciences Center	The Role of CXCR4 and Arrestins in Breast Cancer Signaling and Apoptosis	\$90,000
BC030234	Hattrup	Christine	Mayo Clinic Arizona	Interaction of the MUC1 Tumor Antigen and the Adenomatous Polyposis Coli Tumor Suppressor in Human Breast Cancer	\$90,000
BC030241	Bentle	Melissa	Case Western Reserve University	Exploiting Novel Calcium-Mediated Apoptotic Processes for the Treatment of Human Breast Cancers with Elevated NQO1 Levels	\$79,084
BC030266	Facciponte	John	Roswell Park Cancer Institute	Characterization of Binding by Heat Shock Protein 110 to Bone Marrow-Derived Dendritic Cells and Identification of Receptor(s)	\$89,988
BC030305	Singh	Reshma	University of Pennsylvania	Evaluation of Listeria Monocytogene Based Vaccines for HER-2/neu in Mouse Transgenic Models of Breast Cancer	\$90,000
BC030315	Deye	Emily	University of Cincinnati College of Medicine	The Role of RB in the Therapeutic Response of Breast Cancer	\$90,000

BC030330	Bellovin	David	Beth Israel Deaconess Medical Center	Mechanism of Cadherin Switching in Breast Carcinoma	\$90,000
BC030349	Smith	Christopher	University of California, Irvine	ErbB-2/Her2/neu Overexpression and Estrogen-Dependency in Breast Carcinogenesis	\$90,000
BC030367	Yang	Annie	Harvard Medical School	Role of the p53 Tumor Suppressor Homolog, p63, in Breast Cancer	\$90,000
BC030381	Haakenson	Christine	Georgetown University	Polyphosphate Affects on Breast Cancer Cell Survival	\$90,000
BC030429	Su	Dan	Cornell University Weill Medical College	The Role of Lecithin: Retinol Acyltransferase (LRAT) -Mediated Esterification of Vitamin A in Regulating Human Breast Cancer Cell Proliferation and Differentiat	\$90,000
BC030443	Sha	Zhe	Baylor College of Medicine	INT6 May Influence Breast Cancer Formation by Regulating the 26S Proteasome	\$90,000
BC030451	Pledge	Allison	Johns Hopkins Bloomberg School of Public Health	Role of Polyamine Oxidase (PAOh1/SMO) in Human Breast Cancer	\$90,000
BC030462	Sprague	Jennifer	Washington University	PET Imaging of MMP-2 and MMP-9 Expression in a Mouse Breast Cancer Model Using Selective Gelatinase Inhibitors	\$90,000
BC030506	Sankala	Heidi	Virginia Commonwealth University	The Role of Sphingosine Kinase 2 in Apoptosis of Human Breast Cancer Cells	\$86,886
BC030522	Xu	Junkang	Indiana University	Functional Form of Breast Cancer Resistance Protein	\$90,000
BC030541	McNaughton	Kelly	University of Alabama at Birmingham	Mechanisms of p53-Mediated Apoptosis	\$90,000
BC030560	Laganiere	Josee	McGill University, Royal Victoria Hospital	Functional Genomic Analysis of Estrogen Receptor alpha and Estrogen-Related Receptor alpha Action in Breast Cancer Cells	\$75,497
BC030582	Horwitz	Andrew	Harvard Medical School	BRCA1 Protein Complexes: Dynamic Changes and Functions Important in Breast Cancer	\$90,000
BC030587	Gupta	Gaorav	Sloan-Kettering Institute	Elucidating General Mechanisms of Breast Cancer Metastasis to Bone and Therapeutic Implications	\$88,927
BC030600	Boka	Valerie	University of Texas Health Science Center at San Antonio	A Mouse Model to Investigate the Role of DBC2 in Breast Cancer	\$90,000
BC030631	Hensley Alford	Sharon	University of Michigan School of Public Health	Significance of Pathways Leading to RhoC Overexpression in Breast Cancer	\$90,000
BC030633	Heimburg	Jamie	University at Buffalo	Active Immunization Using a Peptide Mimic of a Carbohydrate Tumor Antigen	\$89,999
BC030640	Zarabi	Bahar	University of Maryland, Baltimore	Magnetic Resonance Imaging of Polymeric Drug Delivery Systems in Breast Cancer Solid Tumors	\$90,000

BC030646	Dillon	Rachelle	McGill University	Role of the EGR Family of Transcription Factors in ErbB-2 Induced Mammary Tumorigenesis	\$67,255
BC030716	Saunders	Robert	Duke University	Task-Specific Optimization of Mammographic Systems	\$90,000
BC030722	Wolf	Kerstin	University of Chicago	Estrogen Receptor Alpha G525L Knock-In Mice	\$90,000
BC030739	Janjic	Jelena	University of Pittsburgh School of Pharmacy	Design, Synthesis and Biological Evaluation of Focused Combinatorial Libraries of Antiestrogens	\$90,000
BC030752	Wang	Youhong	Georgetown University	Transcription Factor Stat5 in Invasion and Metastasis of Human Breast Cancer	\$90,000
BC030762	Lu	Yipin	University of Michigan	Discovery and Test of Small Molecule Inhibitors of XIAP as Potential Novel Therapy for the Treatment of Breast Cancer	\$90,000
BC030768	Butler	Kimberly	University of New Mexico School of Medicine	The Role of Telomeric Repeat Binding Factor 1 (TRF1) in Telomere Maintenance and as a Potential Prognostic Indicator in Human Breast Cancer	\$89,797
BC030789	Farago	Marganit	BUSM/Boston Medical Center	The Role of DN-GSK3beta in Mammary Tumorigenesis	\$90,000
BC030793	Yu	Yue	Washington University	The Opposing Roles of Nucleophosmin and the ARF Tumor Suppressor in Breast Cancer	\$90,000
BC030796	Forget	Anthony	University of Massachusetts Medical School	The Use of RNAi to Examine Recombinational DNA Repair in Human Cells	\$90,000
BC030806	Lenertz	Lisa	University of Texas Southwestern Medical Center	The Biochemical Characterization of with No Lysine (WNK): A Recently Identified Serine/Threonine Protein Kinase Involved in Epithelial Ion Transport	\$88,800
BC030827	Dunphy	Karen	University of Massachusetts	Affects of Prepubescent Exposure to Estrogen on p53 Activity and Resistance to Mammary Tumors	\$90,000
BC030837	Fowler	Amy	University of Wisconsin - Madison	Estrogen Receptor-Alpha Concentration: Non-Classical Modulation of Receptor Function in Breast Cancer	\$89,976
BC030875	Park	Na-Jin	University of Alabama at Birmingham	Genetic Risk of Breast Cancer, Distress, and Immune Response	\$59,972
BC030889	Turnquist	Heth	University of Nebraska Medical Center	Secondary Lymphoid Tissue Chemokine as an Immunotherapeutic against Primary and Metastatic Breast Cancer	\$60,000
BC030901	Bussen	Wendy	University of Texas Health Science Center at San Antonio	The Role of BLM Helicase in Homologous Recombination and DNA Repair	\$85,467
BC030903	Hiremath	Minoti	New York University	Beta-Catenin in Hormone Receptor Negative Breast Cancer	\$89,997
BC030921	Kloos	Bryan	Mount Sinai School of Medicine	The Role of VEGF-C in Breast Cancer Metastasis	\$90,000

BC030934	Earley	Sarah	Rensselaer Polytechnic Institute	The Role of Focal Adhesion Kinase Signaling in Migration of AU-565 Breast Cancer Cells through Lung Microvessel Endothelium	\$90,000
BC030941	Han	Liangfeng	Johns Hopkins University	Characterization of the Role of HEYL in Angiogenesis and Breast Cancer Development	\$90,000
BC030989	Chu	Isabel	University of Miami School of Medicine	cSrc and Her2 Signaling Pathways Cooperate with Estrogen to Promote ER Phosphorylation, Ubiquitination and Proteolysis in ER Negative Breast Cancers	\$90,000
BC031031	Donnelly	David	University at Buffalo	Heavy-Atom Rhodamine Derivatives as Photosensitizers for Use in Photodynamic Therapy against Breast Cancer	\$85,176
BC031037	Sfeir	Agnel	University of Texas Southwestern Medical Center	Altering Telomere-End Processing: A Novel Breast Cancer Therapeutic Approach	\$89,982
BC031048	Keleti	David	University of Pennsylvania School of Medicine	Identification of Novel Molecular Targets for Pleckstrin Homology (PH) Domains Found in Oncogenes Implicated in Breast Cancer	\$90,000
BC031066	Mani	Aparna	Georgetown University	Targeting of the Nuclear Receptor Coactivator Isoform Delta3AIB1 in Breast Cancer	\$90,000
BC031097	Xia	Mengna	University of Texas at Arlington	Simultaneous Monitoring of Vascular Oxygenation and Tissue Oxygen Tension of Breast Tumors under Hyperbaric Oxygen Exposure	\$89,994
BC031098	Krakowski	Ariel	University of California, Berkeley	The Role of SnoN and Ski in Mammary Epithelial Cell Transformation	\$90,000
BC031116	O'Byrne	Sheila	Columbia University	Loss of Vitamin A Storage Results in a Predisposition to Mammary Carcinoma?	\$90,006
BC031118	de Assis	Sonia	Georgetown University	Pregnancy Leptin Levels and Breast Cancer Risk	\$89,993
BC031133	Meyer	Damon	Beckman Research Institute of the City of Hope	Examining the Role of Msh2 and Mre11 in Telomere Rescue	\$90,000
BC031137	Munoz	Marcia	Garvan Institute of Medical Research	Characterization of the EDD Protein: A Novel Interacting Partner of the DNA Damage Checkpoint Protein CHK2	\$90,777
BC031149	Nelson	Stephanie	University of Wisconsin-Madison	A Comparative Genetic Approach to Identify Human Breast Cancer Resistance Genes	\$89,783
BC031171	Lim	Kian-Huat	Duke University	Ras Signaling in Maintenance of Human Breast Cancers	\$90,000
BC031241	Cooper	Charlton	University of Manitoba	The Role of hGCP3-Psoriasin Interaction in Human Breast Cancer	\$76,796
BC031258	Christensen	Devin	University of Washington	Identifying Substrates and Functional Roles of the BRCA1 Ubiquitin Ligase	\$90,000
BC031271	Perez	Carmen	Vanderbilt University School of Medicine	p63 Regulation of Gene Expression in the Breast Myoepithelium	\$90,000

BC031309	Woditschka	Stephan	University of Wisconsin-Madison	Identification of Surrogate Biomarkers for Hormonally Non-Responsive Breast Cancer Using a RXR Inhibitor and COX-2 Inhibitor as Chemopreventive Agents	\$90,009
BC031348	Nehra	Ruchi	Georgetown University	Activation of NFkappaB in Breast Cancer Cells	\$90,000
BC031350	Chong	Curtis	Johns Hopkins Pharmacology	Methionine Aminopeptidase II as a Pharmacologic Target in Breast Cancer	\$90,000
BC031381	Gauger	Michele	University of North Carolina at Chapel Hill	Determining the Effect of Cryptochrome Loss and Circadian Clock Disruption on Tumorigenesis in Mice	\$90,000
BC031425	McCall	Chad	University of North Carolina School of Medicine	Function and Mechanism of Cullin 4A in Breast Cancer Development	\$90,000
BC031502	Green	Brian	University of California at San Francisco	DNA Damage and Genomic Instability Induced by Inappropriate DNA Re-replication	\$90,000
BC031524	Byun	Tony	Leland Stanford Jr. University	The Role of Replication in Activation of the DNA Damage Checkpoint	\$90,000
BC031551	Chu	Leslie	University of California, San Francisco	Molecular Analysis of the Inheritance of Transcriptional Silencing	\$90,000
BC031614	Tu	Andrea	University of California, Berkeley	Smad Acetylation: A New Level of Regulation in TGF-beta Signaling	\$90,000
BC031656	Yuan	Baohong	University of Connecticut	Fluorescence Imaging of Near Infrared Diffusive Light with the Localization of Ultrasound	\$90,000
BC031753	Wingate	Hannah	University of Texas M.D. Anderson Cancer Center	The Role of the Low Molecular Weight (LMW) Isoforms of Cyclin E in Breast Cancer Tumorigenesis	\$90,000
BC031757	Nagy	Tamas	College of Veterinary Medicine, Cornell University	Investigating the Role of FIP200 in Mammary Carcinogenesis Using a Transgenic Mouse Model	\$90,000
BC031822	Phelps	A. Mitchell	The Ohio State University	Riboflavin Carrier Protein and Riboflavin in Breast Tumor Targeting	\$83,776
BC031840	Krager	Kimberly	University of Iowa	Genetically Targeted Radiotherapy Utilizing the Human Sodium Iodide Symporter in Human Breast Carcinoma Cells	\$91,500
BC031876	Chien	Yuchen	University of Texas Southwestern Medical Center at Dallas	Critical Contribution of Ral GTPases to Growth and Survival of Breast Cancer Cells	\$89,982
BC031891	Azios	Nicolas	University of Texas at Austin	Phytoestrogen Effects on Cytoskeletal Morphology and Motility in Breast Cancer Progression	\$89,994
BC031906	Hoffmeyer	Michaela	University of Texas Austin	In Vivo Fluorescence Confocal Microscopy to Investigate the Role of RhoC in Inflammatory Breast Cancer	\$89,994
BC031912	Pozner	Sharon	Yale University	Met Nuclear Localization and Signaling in Breast Cancer	\$90,000

BC031921	Liao	Debbie	University of California, San Diego	The Role of the Hypoxic Microenvironment on Tumor Formation in the Mammary Gland	\$79,273
BC032013	Sampat	Mehul	The University of Texas at Austin	Detection of Spiculated Masses and Architectural Distortions in Digitized Mammograms	\$89,250
BC032106	Tran	Andy	Columbia University	The Role of Dynamic Microtubules and Their Selective Stabilization in Focal Adhesion Disassembly	\$90,000
BC032133	Shamieh	Lara	Oregon Health and Science University	Domain Specific Effects of Herstatin, an Alternative HER-2 (erbB-2) Product, on erbB Positive Breast Cancer	\$90,000
BC032139	Chen	Qing	Roswell Park Cancer Institute	Role of Proinflammatory Cytokines in Thermal Activation of Lymphocyte Recruitment to Breast Tumor Microvessels	\$89,993
BC032148	Hu	Xiaoyi	Johns Hopkins School of Medicine	Human Methionine Aminopeptidase 1 (MetAP1) as a New Anticancer Target	\$90,000
BC032178	Poynter	Kennon	Virginia Commonwealth University	Mechanism of Telomerase Inhibition Using Small Inhibitory RNAs and Induction of Breast Tumor Cell Sensitization	\$90,000
BC032196	Swift-Scanlan	Theresa	Johns Hopkins University School of Nursing	Epigenetic Modifiers of Breast Cancer Risk	\$90,000

Postdoctoral Awards

Log Number	PI Last Name	PI First Name	Institution	Title	Final Budget
BC030478	Spencer	Virginia	Lawrence Berkeley National Laboratory	The Influence of the Extracellular Matrix on Beta-Casein Gene Expression in Normal Mammary Epithelial Cells	\$306,946
BC030471	Nanda	Rita	University of Chicago	The Characterization and Treatment of Aggressive Breast Cancer	\$240,141
BC030500	Bentires-Alj	Mohamed	Beth Israel Deaconess Medical Center	Role of Gab2 in Breast Cancer	\$324,000
BC030547	Yi	Ping	Baylor College of Medicine	The Regulation of Nuclear Receptor Coactivator SRC-3 Activity through Membrane Receptor Mediated Signaling Pathways	\$260,343
BC030558	Teitelbaum	Susan	Mount Sinai School of Medicine	Gene-Environment Interaction and Breast Cancer on Long Island, NY	\$404,874
BC030602	Wiezorek	Jeffrey	California Institute of Technology	NF-kappaB/RelB in Murine Mammary Development and Transformation	\$486,000
BC030671	Yen	Lily	University of California, Davis	The ErbB3 Suppressor Protein Nrdp1 as an Inhibitor of Breast Tumor Progression	\$313,388
BC030892	de Bruin	Alain	Ohio State University	The Role of Retinoblastoma within the Microenvironment of Breast Cancer	\$442,500
BC030938	You	Youngjae	State University of New York, at Buffalo	Structure Optimization of 21,23-Core-Modified Porphyrins Absorbing Long-Wavelength Light as Potential Photosensitizers against Breast Cancer Cells	\$395,620
BC030963	Sharma	Dipali	Johns Hopkins University	Elucidation of Chromatin Remodeling Machinery Involved in Regulation of Estrogen Receptor Alpha Expression in Human Breast Cancer Cells	\$246,768
BC031002	Allred	Clinton	University of Kentucky	Defining the Molecular Actions of Dietary Fatty Acids in Breast Cancer: Selective Modulation of Peroxisome Proliferator-Activated Receptor Gamma	\$299,398
BC031004	Smith	Philip	Cold Spring Harbor Laboratory	Exonic Splicing Enhancer Motifs as Predictive Tools for Characterizing Mutations that Cause Aberrant Splicing in Breast Cancer	\$324,000
BC031027	Carlson	Coby	University of Wisconsin - Madison	Use of Bifunctional Immunotherapeutic Agents to Target Breast Cancer	\$299,974
BC031095	Katz	Elad	University of Pennsylvania	The Contribution of Viral Envelope Protein Signaling to Oncogenesis of Mammary Epithelial Cells	\$235,984

BC031114	Noren-Hooten	Nicole	The Burnham Institute	Anti-Breast Cancer Activity of the Ephrin-B2 Protein	\$324,000
BC031132	Gouaze	Valerie	John Wayne Cancer Institute	Mechanisms of Chemoresistance in Breast Cancer Cells	\$412,638
BC031141	Sunaga	Noriaki	The University of Texas Southwestern Medical Center	Use of RNA Interference to Study Candidate Therapeutic Gene Targets in Human Breast Cancer	\$205,728
BC031168	Wang	Min	University of Pennsylvania	Recurrent Mammary Tumorigenesis in c-myc Transgenic Mice	\$323,956
BC031277	Provenzano	Paolo	University of Wisconsin, Madison	Regulation of Breast Cell Phenotype, Signaling, and Gene Expression by Physical Properties of the Extracellular Matrix: A Multidisciplinary Approach	\$409,298
BC031288	Bailey	L. Charles	Children's Hospital of Philadelphia	Mammary Stem Cells in Normal Development and Tumorigenesis	\$510,000
BC031304	Simpson	Kaylene	Beth Israel Deaconess Medical Center	Rho GTPase Involvement in Breast Cancer Migration and Invasion	\$510,000
BC031315	Seo	Hye-Sook	Baylor College of Medicine	Molecular Mechanism by Which Retinoids Prevent Breast Cancer Development	\$420,270
BC031392	Lu	Huimei	University of New Mexico Health Sciences Center	Roles of BCCIP, a BRCA2-Interacting Protein, in DNA Repair and Breast Cancer	\$366,961
BC031441	Aiyar	Sarah	University of Virginia	Analysis of Co-Factor of BRCA1 (COBRA1) in Hormone-Dependent Gene Regulation and Its Role in Breast Cancer	\$421,209
BC031442	Zhou	Longen	University of Texas Health Science Center	Small Molecules Targeting Hec1 and Nek2 Interaction for Breast Cancer Treatment	\$285,312
BC031506	Tudorica	Luminita	State University of New York at Stony Brook	Clinically Practical Magnetic Resonance Protocol for Improved Specificity in Breast Cancer Diagnosis	\$427,868
BC031544	Edwards	Darrin	University of Chicago	Investigation of Three-Group Classifiers to Fully Automate Detection and Classification of Breast Lesions in an Intelligent CAD Mammography Workstation	\$450,971
BC031567	Carroll	Jason	Dana-Farber Cancer Institute	Promoter and Cofactor Requirements for SERM-ER Activity	\$356,922
BC031671	Park	Woo-Hyun	Brigham and Women's Hospital and Harvard Medical School	BRCA1 Regulation of Fanconi Anemia Proteins in DNA Damage Repair	\$223,964

BC031678	Sheen	Joon-Ho	Whitehead Institute for Biomedical Research	Role of the Nutrient-Sensitive mTOR Signaling Pathway in Breast Cancer Development and Growth	\$296,568
BC031712	Messick	Troy	The Wistar Institute University of Pennsylvania	Structural and Biochemical Studies of the Ovarian Tumor Domain	\$441,764
BC031798	Wei	Jun	University of Michigan	Development of a Computer-Aided Diagnosis System for Early Detection of Masses Using Retrospectively Detected Cancers on Prior Mammograms	\$453,454
BC031885	Dasgupta	Ramanuj	Harvard Medical School	Functional Genomic Analysis of the Wingless/Wnt Signaling Pathway and Its Role in Oncogenesis	\$234,043
BC031895	Crowell	Kevin	The Burnham Institute	Structure, Function and Inhibition of Human Telomerase: Novel Approaches for Breast Cancer Therapy	\$251,304
BC031989	Sauane	Moira	Columbia University	Breast Cancer Cell Selective Apoptosis Induced by the Novel Activity of an IL-10 Related Cytokine	\$164,800
BC032014	Carraway	Hetty	Johns Hopkins University	Promoter Hypermethylation as a Molecular Marker for Breast Cancer	\$327,000
BC032047	Chen	Xiaowei	Fox Chase Cancer Center	BRCC36, a Novel Subunit of a BRCA1 E3 Ubiquitin Ligase Complex: Candidates for BRCA3	\$257,189

Postdoctoral-Multidisciplinary Awards

Log Number	Last Name	First Name	Institution	Title	Final Budget
BC030992	Badr	Hoda	University of Texas M.D. Anderson Cancer Center	Spousal Relationships and Pain in Metastatic Breast Cancer	\$404,892
BC031019	Kwate	Naa Oyo	Mt. Sinai School of Medicine	Cultural and Contextual Determinants of Alcohol Use among African American Women: A Multidisciplinary Approach to Breast Cancer Risk	\$402,206
BC031482	Birgul	Ozlem	University of California, Irvine	Comparison of the Specificity of MR-EIT and Dynamic Contrast-Enhanced MRI in Breast Cancer	\$557,639
BC032040	Lu	Zhongxian	University of California, Irvine	Combined Biology and Bioinformatics Approaches to Breast Cancer	\$420,324

**Fiscal Year 2003 Breast Cancer Research Program
Peer Reviewers**

Peer Reviewer	Degree	Affiliation
Aaronson, Stuart	M.D.	Mount Sinai Medical Center
Aarsvold, John	Ph.D.	Nuclear Medicine Service, Atlanta VA Medical Center
Abraham, George	M.D.	University of Rochester School of Medicine
Aft, Rebecca	M.D., Ph.D.	Washington University School of Medicine
Agurs-Collins, Tanya	Ph.D.	Howard University Cancer Center
Ahles, Tim	Ph.D.	Dartmouth Medical School, Dartmouth Hitchcock Medical Center
Ahmad, Nihal	Ph.D.	University of Wisconsin
Ahsan, Habibul	M.D.	Columbia-Presbyterian Medical Center, School of Public Health
Alberts, Arthur	Ph.D.	Van Andel Research Institute
Alexander, Caroline	Ph.D.	McArdle Lab for Cancer Research, University of Wisconsin Medical School
Alligood, Martha		University of Tennessee
Andersen, Bogi	M.D.	University of California, Irvine
Andre, Michael	Ph.D.	University of California, San Diego
Andrykowski, Michael	Ph.D.	University of Kentucky
Angtuaco, Teresita	M.D.	University of Arkansas for Medical Sciences
Armer, Jane		Oncology Nursing Society
Arslan, Alan	M.D.	New York University School of Medicine
Bachelder, Robin	Ph.D.	Beth Israel Deaconess Medical Center
Baer, Richard	Ph.D.	Columbia University
Bailey, Howard	M.D.	University of Wisconsin School of Medicine
Bain, David	Ph.D.	University of Colorado Health Sciences Center
Banerjee, Debabrata	Ph.D.	University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School
Barlow, William	Ph.D.	Cancer Research and Biostatistics
Basu, Alakananda	Ph.D.	University of North Texas Health Science Center

Peer Reviewer	Degree	Affiliation
Batra, Surinder	Ph.D.	University of Nebraska Medical Center, Eppley Cancer Center
Beck, William	Ph.D.	University of Illinois at Chicago
Beckman, Barbara	Ph.D.	Tulane Medical Center
Beerman, Christine		CMOC Waiting Room Breast Cancer Support Group
Belinsky, Steven	Ph.D.	Lovelace Respiratory Research Institute
BenComo, Jose	Ph.D.	University of Texas M.D. Anderson Cancer Center
Benjamin, Laura	Ph.D.	Harvard Medical School
Ben-Jonathan, Nira	Ph.D.	University of Cincinnati
Bennett, James	Ph.D.	Albany Medical College
Berbaum, Kevin	Ph.D.	University of Iowa
Berger, Ann	Ph.D.	University of Nebraska Medical Center
Berman, Barbara	Ph.D.	University of California-Los Angeles
Bernett, Renee		Living Beyond Breast Cancer
Berwick, Marianne	Ph.D., M.P.H.	Memorial Sloan-Kettering Cancer Center
Birge, Raymond	Ph.D.	University of Medicine and Dentistry of New Jersey
Blanchard, Rebecca	Ph.D.	Fox Chase Cancer Center
Boland, Michael	M.D., Ph.D.	University of Iowa
Boldt, David	M.D.	University of Texas Health Science Center
Bolinger, Lizann	Ph.D.	National Research Council Canada
Bolla, Janet		University of Alabama, Birmingham
Boothman, David	Ph.D.	Case Western Reserve University
Bos, Timothy	Ph.D.	Eastern Virginia Medical School
Bourguignon, Lilly Y.	Ph.D.	University of California at San Francisco
Bouton, Amy	Ph.D.	University of Virginia
Bowman, Susan		Grand Rapid's Coalition for Breast Health
Bright, Robert	Ph.D.	Texas Tech University Health Sciences Center
Brown, David	Ph.D.	University of Texas Medical Branch

Peer Reviewer	Degree	Affiliation
Brown, Kevin	Ph.D.	Louisiana State University Health Sciences Center
Brown, Powel	M.D., Ph.D.	Baylor College of Medicine
Brown, Stephen	Ph.D.	Henry Ford Health System
Cancro, Michael	Ph.D.	University of Pennsylvania School of Medicine
Cantrell, Margaret		Cancer Society of Greenville County
Carolin, Kathryn	M.D.	Wayne State University
Carraway, Coralie	Ph.D.	University of Miami School of Medicine
Carraway, Kermit	Ph.D.	University of Miami School of Medicine
Cassell, Delanie	Ph.D.	Bayer Healthcare
Celis, Esteban	M.D., Ph.D.	Mayo Clinic
Chai, Karl	Ph.D.	University of Central Florida
Chamness, Gary	Ph.D.	Baylor College of Medicine
Chan, Heang-Ping	Ph.D.	University of Michigan
Chang, Chawnshang	Ph.D.	University of Rochester Medical Center
Chang, Jenny	M.D.	Baylor College of Medicine
Chatterjee, Malaya	Ph.D.	University of Cincinnati
Chatterjee, Sunil	Ph.D.	University of Cincinnati
Chatterton, Robert	Ph.D.	Northwestern University Medical School
Chavez, Noel	Ph.D.	University of Illinois, Chicago
Chen, Jin	M.D., Ph.D.	Vanderbilt University School of Medicine
Chen, Shiuan	Ph.D.	Beckman Research Institute of the City of Hope
Chen, Si-Yi	M.D., Ph.D.	Baylor College of Medicine
Chen, Xinbin	Ph.D.	University of Alabama at Birmingham
Cheng, Shi-Yuan	Ph.D.	University of Pittsburgh
Chirgwin, John	Ph.D.	University of Virginia
Chrysogelos, Susan	Ph.D.	University of Michigan
Churchill, Mair	Ph.D.	University of Colorado Health Sciences Center

Peer Reviewer	Degree	Affiliation
Cianfrocca, Mary	D.O.	Fox Chase Cancer Center
Ciavarra, Richard	M.Sc., Ph.D.	Eastern Virginia Medical School
Clarke, Robert	Ph.D., D.Sc.	Lombardi Cancer Center, Georgetown University Medical School
Clevenger, Charles	M.D., Ph.D.	University of Pennsylvania Medical School
Cline, J. Mark	D.V.M., Ph.D.	Wake Forest University School of Medicine
Clinton, Gail	Ph.D.	Oregon Health Sciences University
Clynes, Raphael	M.D., Ph.D.	Columbia University
Cochrane, Barbara	Ph.D., R.N.	Fred Hutchinson Cancer Research Center
Cohen, Harvey	M.D., Ph.D.	Stanford University Medical School
Cohen, Susan		New York State Breast Cancer Network
Cohick, Wendie	Ph.D.	Rutgers University
Cole, Jack	Ph.D.	Scientific Review Administrator
Collinge, William	Ph.D.	Collinge & Associates
Coney, PonJola	M.D.	Meharry Medical College
Conti, Claudio	D.V.M., Ph.D.	University of Texas M.D. Anderson Cancer Center
Conzen, Suzanne	M.D.	University of Chicago School of Medicine
Cordingley, Beth		Y-Me National Breast Cancer Organization, Northeastern Oklahoma Affiliate
Corry, Peter	Ph.D.	William Beaumont Hospital
Crane-Okada, Rebecca	Ph.D., R.N.	Joyce Eisenberg Keefer Breast Center, Saint John's Health Center
Crockett, Susan		Mid-Kansas Chapter of The Susan G. Komen Breast Cancer Foundation
Cryns, Vincent	M.D.	Northwestern University
Cutler, Mary Lou	Ph.D.	Uniformed Services University of the Health Sciences
Daar, Ira	Ph.D.	National Cancer Institute/Frederick
Dacey, Barbara		Canadian Breast Cancer Network
Dadachova, Ekaterina	Ph.D.	Albert Einstein College of Medicine
Dahiya, Rajvir	Ph.D.	University of California at San Francisco and VAMC

Peer Reviewer	Degree	Affiliation
Dai, Wei	Ph.D.	New York Medical College
Dainiak, Nicholas	M.D.	Bridgeport Hospital
Daniel, Juliet	Ph.D.	McMaster University
Danielpour, David	Ph.D.	Case Western Reserve University
Daniels, Nancy		National Breast Cancer Coalition
Daoud, Sayed	Ph.D.	Washington State University
Davidson, Nancy	M.D.	Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins
Davis, Barry	Ph.D.	Scientific Review Administrator
De Benedetti, Arrigo	Ph.D.	Louisiana State University Health Sciences Center
Dean, Elaine		Canadian Breast Cancer Network
Deining, Prescott	Ph.D.	Tulane University Medical Center
Delapine, Maryellen		Living Beyond Breast Cancer
DeMayo, Francesco	Ph.D.	Baylor College of Medicine
Denko, Nicholas	M.D., Ph.D.	Stanford University
Dent, Paul	Ph.D.	Virginia Commonwealth University
Desai, Pankaj	Ph.D.	University of Cincinnati
Devine, Margaret		University of California, San Francisco, Breast SPORE Advocate
Diana, John	Ph.D.	Scientific Review Administrator
Diefenbach, Michael	Ph.D.	Fox Chase Cancer Center
DiPersio, C. Michael	Ph.D.	Albany Medical College
DiRenzo, James	Ph.D.	Dartmouth Medical School
Dolgin, Jill		Living Beyond Breast Cancer
Dong, Jin-Tang	Ph.D.	Emory University, Winship Cancer Institute
Douglas, Joanne	Ph.D.	University of Alabama at Birmingham
Doweyko, Arthur	Ph.D.	Bristol-Myers Squibb
Duda, Rosemary	M.D., M.P.H.	Beth Israel Hospital

Peer Reviewer	Degree	Affiliation
Dufour, D. Robert	M.D.	Veterans Affairs Medical Center
Durdik, Jeannine	Ph.D.	University of Arkansas
Dutta, Anindya	M.D., Ph.D.	University of Virginia School of Medicine
Eastman, Alan	Ph.D.	Dartmouth Medical School
Ebbinghaus, Scot	M.D.	Arizona Cancer Center, University of Arizona
Eckhardt, Laurel	Ph.D.	Hunter College of the City University of New York
Eidens, Richard		The Susan G. Komen Breast Cancer Foundation
Eisen, Arlene		California Pacific Medical Center/Breast Health Center
El-Ashry, Dorraya	Ph.D.	University of Michigan Health System
Elliott, Bruce	Ph.D.	Queens University
Engel, Daniel	Ph.D.	University of Virginia School of Medicine
Evans, Lemuel	Ph.D.	Scientific Review Administrator
Fan, Weimin	M.D., M.P.H.	Medical University of South Carolina
Fasco, Michael	Ph.D.	Wadsworth Center
Felding-Habermann, Brunhilde	Ph.D.	The Scripps Research Institute
Felix, Juan	M.D.	University of Southern California, Keck School of Medicine
Feng, Lili	M.D.	Baylor College of Medicine
Fenton, Bruce	Ph.D.	University of Rochester School of Medicine
Fingleton, Barbara	Ph.D.	Vanderbilt University Medical Center
Fisher, Paul	M.D., Ph.D.	State University of New York at Stony Brook
Forbes, Digna	M.D.	Meharry Medical College
Ford, Heide	Ph.D.	University of Colorado Health Sciences Center
Foster, Janet		Sioux Valley Clinic Breast and Bone Heal
Franklin, Renty	Ph.D.	University of Maryland Dental School
Freedman, Jeffrey	Ph.D.	Scientific Review Administrator
Frew, Ralph	D.D.S., M.P.H.	Scientific Review Administrator
Friedland, Joan		Breast Cancer Action

Peer Reviewer	Degree	Affiliation
Friedman, Sue		FORCE: Facing Our Risk of Cancer Empowered
Fuchs, Ephraim	M.D.	Sidney Kimmel Cancer Center at Johns Hopkins University
Fuchs-Young, Robin	Ph.D.	University of Texas M.D. Anderson Cancer Center
Funston-Dillon, Diane		Surviving Breast Cancer Support Group
Fuqua, Suzanne	Ph.D.	Baylor College of Medicine
Gabrielson, Edward	M.D.	John Hopkins Oncology Center
Gabrilovich, Dmitry	M.D., Ph.D.	H. Lee Moffitt Cancer Center, University of South Florida
Galanis, Evanthia	M.D.	Mayo Clinic
Ganapathi, Ram	Ph.D.	Cleveland Clinic Foundation
Garabedian, Michael	Ph.D.	New York University School of Medicine
Garber, Judy	M.D., M.P.H.	Dana Farber Cancer Institute
Gendler, Sandra	Ph.D.	Mayo Clinic Scottsdale-Tumor Biology Program
George, Donna	Ph.D.	University of Pennsylvania
Gerald, William L.	M.D., Ph.D.	Memorial Sloan-Kettering Cancer Center
Gerlach, James	Ph.D.	Queens University
Gewirtz, David	Ph.D.	Virginia Commonwealth University
Ghandehari, Hamid	Ph.D.	University of Maryland
Ghoda, Lucy	Ph.D.	University of Colorado Health Sciences Center
Giardina, Charles	Ph.D.	University of Connecticut
Gibbs, Richard	Ph.D.	Purdue University
Gillespie, Theresa	Ph.D.	Winship Cancer Institute, Emory University
Gimotty, Phyllis	Ph.D.	University of Pennsylvania School of Medicine
Ginsberg, Mara		To Life!
Gius, David	M.D., Ph.D.	National Institutes of Health Center for Cancer Research
Gladstone, Andi		Ithaca Breast Cancer Alliance
Glaspie, Janette		Women of Essence Breast Cancer Support
Gobel, Stephen	D.D.S.	Scientific Review Administrator

Peer Reviewer	Degree	Affiliation
Gollahon, Lauren	Ph.D.	Texas Tech University
Good, Walter	Ph.D.	University of Pittsburgh
Goodall Strawderman, Patricia		Virginia Breast Cancer Foundation
Goodman, Alan	Ph.D.	Scientific Review Administrator
Gopalkrishnan, Rahul	Ph.D.	Columbia University
Gottardis, Marco	Ph.D.	Bristol-Myers Squibb Pharmaceutical Institute
Gralow, Julie	M.D.	University of Washington
Green, Lori		Y-Me Ladies of Courage
Griffith, Jeffrey	Ph.D.	University of New Mexico School of Medicine
Groden, Joanna	Ph.D.	University of Cincinnati, HHMI
Groschen, Susan	Ph.D.	University of Southern California-Norris Cancer Center
Grossman, Ruth	D.D.S.	Scientific Review Administrator
Grossman, Ruth	D.D.S.	Scientific Review Administrator
Gulati, Jag	Ph.D.	Scientific Review Administrator
Gullapalli, Purnachandra	Ph.D.	University of Maryland Medical Center
Gumerlock, Paul	Ph.D.	University of California Davis Cancer Center
Guttridge, Denis	Ph.D.	Ohio State University
Guvakova, Marina	Ph.D.	University of Pennsylvania
Hagedorn, Curt	M.D.	Emory University School of Medicine
Hahn, Peter	Ph.D.	State University of New York Upstate Medical University
Halazonetis, Thanos	D.D.S., Ph.D.	The Wistar Institute
Hall, Lynn		University of Virginia Cancer Center
Hamburger, Anne	Ph.D.	University of Maryland Baltimore School of Medicine
Hampton, Deborah		Y-ME of Chattanooga
Hanash, Samir	M.D., Ph.D.	University of Michigan
Hann, Stephen	Ph.D.	Vanderbilt University School of Medicine
Hansen, Marc	Ph.D.	University of Connecticut Health Center

Peer Reviewer	Degree	Affiliation
Harvey, Jennifer	M.D.	University of Virginia
Hasan, Tayyaba	Ph.D.	Wellman Laboratories of Photomedicine
Hathaway, Helen	Ph.D.	University of New Mexico School of Medicine
Haut, Michael	M.D.	Pennsylvania Hospital
Hayes, Colleen	Ph.D.	University of Wisconsin
Helferich, William	Ph.D.	University of Illinois
Helman, Sandy	Ph.D.	Scientific Review Administrator
Hickey, Robert	Ph.D.	Indiana University School of Medicine
Higgins, Paul	Ph.D.	Albany Medical College
Hilf, Russell	Ph.D.	University of Rochester School of Medicine and Dentistry
Hill, Steven	Ph.D.	Tulane University School of Medicine
Hollingsworth, Michael	Ph.D.	University of Nebraska Medical Center
Holmes, Paula		Partnership for Breast Care
Holt, Jeffrey	M.D.	University of Colorado Health Sciences Center
Holt, Shawn	Ph.D.	Medical College of Virginia Commonwealth University
Hoopes, Paul	D.V.M., Ph.D.	Dartmouth Medical School
Horton, Linda		Vanderbilt - Ingram Cancer Center
Htun, Han	Ph.D.	David Geffen School of Medicine at the University of California, Los Angeles
Hudis, Clifford	M.D.	Memorial Sloan-Kettering Cancer Center
Hunt, Jay	III, Ph.D.	Louisiana State University Health Sciences Center
Hurwitz, Arthur	Ph.D.	State University of New York Upstate Medical Center
Hylton Watson, Nola	Ph.D.	University of California, San Francisco
Ioffe, Olga	M.D.	University of Maryland Medical System
Ip, Margot	Ph.D.	Roswell Park Cancer Institute
Ittmann, Michael	M.D., Ph.D.	Houston Veterans Affairs Medical Center
Jackson, Cynthia	Ph.D.	Rhode Island Hospital

Peer Reviewer	Degree	Affiliation
Jacob, James	Ph.D.	Organomed Corporation
Jacobs, Lisa	M.D.	University of Missouri
Jara, Hernán	Ph.D.	Boston University Medical Center
Jeffrey, Stefanie	M.D.	Stanford University School of Medicine
Jeng, Meei-Huey	Ph.D.	Indiana University
Jensen, Katherine		Oregon Breast & Cervical Cancer Screening Program
Jensen, Roy	M.D.	Vanderbilt University Medical Center
Jhanwar, Suresh	Ph.D.	Memorial Sloan-Kettering Cancer Center
Johnson, Carolyn	Ph.D.	Tulane University School of Public Health and Tropical Medicine
Johnson, Michael	Ph.D.	Georgetown University
Jones, Elva		Appalachian Cancer Network
Jorgensen, Carolyn		The Susan G. Komen Breast Cancer Foundation
Justice, Mary		Breast Cancer Alliance of Greater Cincinnati
Kachnic, Lisa	M.D.	Boston Medical Center
Kallergi, Maria	Ph.D.	Department of Radiology, University of South Florida
Kane, Madeleine	M.D., Ph.D.	Department of Medicine and Medical Oncology, University of Colorado Health Sciences Center
Kane, Susan	Ph.D.	Graduate Studies and Research, California State University
Kannan, Perry	Ph.D.	MetroHealth Medical Center/Case Western Reserve University
Katzenellenbogen, John	Ph.D.	University of Illinois
Keenan, Edward	Ph.D.	Oregon Health and Science University
Keith, Verna	Ph.D.	Arizona State University
Kelly Jr., Thomas	Ph.D.	University of Arkansas for Medical Sciences
Kennedy, Ronald	Ph.D.	Texas Tech University Health Sciences Center
Kenney, Nicholas	Ph.D.	Hampton University
Keppel, Cynthia	Ph.D.	Hampton University
Keri, Ruth	Ph.D.	Case Western Reserve University

Peer Reviewer	Degree	Affiliation
Kerns, Robert	Ph.D.	University of Iowa
Key, Nancy		Evergreen Healthcare
Khan, Sohaib	Ph.D.	University of Cincinnati
Khosravi-Far, Roya	Ph.D.	Beth Israel Deaconess Hospital
Killary, Ann	Ph.D.	University of Texas M.D. Anderson Cancer Center
Kimler, Bruce	Ph.D.	University of Kansas Medical Center
Kirschner, Marvin	M.D.	UMDNJ New Jersey Medical School
Klinge, Carolyn	Ph.D.	University of Louisville School of Medicine
Knight, Julia	Ph.D.	Samuel Lunenfeld Research Institute, Mount Sinai Hospital
Knudsen, Erik	Ph.D.	University of Cincinnati
Knutson, Keith	Ph.D.	University of Washington Tumor Vaccine Group
Koller, Beverly	Ph.D.	University of North Carolina, Chapel Hill
Kothari, Manish	Ph.D.	Synarc
Krupinski, Elizabeth	Ph.D.	University of Arizona
Kumar, Rakesh	Ph.D.	University of Texas M.D. Anderson Cancer Center
Kurzer, Mindy	Ph.D.	University of Minnesota
Kute, Timothy	Ph.D.	Wake Forest University School of Medicine
Kutner, Susan		Barnes-Jewish Hospital/Washington University
Kyprianou, Natasha	Ph.D.	University of Kentucky College of Medicine
Lacefield, James	Ph.D.	University of Western Ontario
Laham, Roger	M.D.	Beth Israel Deaconess Medical Center
LaHann, Thomas	Ph.D.	Mitretek Systems
LaMarche, Martha		Ann's Place, The Home of I Can
Lamph, William	Ph.D.	Ligand Pharmaceuticals Incorporated
Lange, Carol	Ph.D.	University of Minnesota Cancer Center
Langer, Mark	M.D.	Indiana School of Medicine
Larner, James	M.D.	University of Virginia

Peer Reviewer	Degree	Affiliation
Larsson, Stephan	M.D.	Vancouver Island Cancer Centre
Lau, Lester	Ph.D.	University of Illinois at Chicago
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Glossary of Terms

Breast Cancer Center of Excellence Awards: The Breast Cancer Center of Excellence Awards are intended to support the establishment of a directed multi-institutional collaboration among highly accomplished scientists from diverse backgrounds and areas of expertise to create a critical mass of talent focused on the solution of a major overarching problem in breast cancer research. Breast cancer consumer/survivor groups should be active participants in these multidisciplinary efforts. The results generated from these awards should have a major impact on the prevention, detection, diagnosis, and/or treatment of breast cancer.

Clinical Research Nurse Awards: Clinical Research Nurse Awards are intended to facilitate the preparation of nurses for active careers in breast cancer research and testing. The overall goal of this award is to prepare nurses for the breast cancer clinical research profession through mentored research training. Eligible applicants should have a bachelor, master's, or doctoral degree in nursing with an interest in breast cancer clinical research.

Clinical Translational Research (CTR) Awards: The intent of CTR Awards is to extend recent findings in breast cancer research that offer the potential to revolutionize the practice of breast cancer care. CTR Awards support projects only in the areas of chemoprevention and therapeutics that are likely to have a major impact on breast cancer by applying promising and well-founded laboratory or other preclinical research findings to the clinical care of patients with, or populations at risk for, breast cancer. Applicants must include preliminary data to support the feasibility of their hypotheses and approaches and a plan to conduct a prospective clinical trial or study during the course of the award.

Concept Awards: The intent of the Concept Award is to fund the exploration of an initial concept or theory that could give rise to a testable hypothesis. These awards provide investigators with the opportunity to pursue serendipitous observations; it is anticipated that research completed through a Concept Award may provide sufficient preliminary data to enable the investigator to prepare a hypothesis-based proposal for future research. Proposals must describe how the new concept or theory will enhance existing knowledge of breast cancer. Because these awards are designed for preliminary investigations, projects involving human subjects or human anatomical substances will not be supported through this mechanism unless they are exempt under 32 CFR 219.101(b)(4).¹

Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Partnership Training Awards: These awards are intended to provide assistance at an institutional level. A major goal of this award is to support collaborations between an applicant HBCU/MI and an institution with established investigators in breast cancer research for the purpose of creating an environment that fosters breast cancer research in which HBCU/MI investigators will receive

¹ Title 32, Code of Federal Regulations, Part 219, Section 101(b)(4). Research involving collection or study of existing data, documents, records, pathological specimens, or diagnostic specimens, if these sources are publicly available or if the information is recorded by the investigator in such a manner that subjects cannot be identified, is considered to be exempt under 32 CFR 219.101(b)(4).

training toward establishing successful breast cancer research careers. A long-term goal is to assist HBCU/MI investigators in submitting competitive breast cancer research proposals.

Idea Awards: The intent of Idea Awards is to encourage innovative approaches to breast cancer research. Innovation will receive 50% of the emphasis in the first tier of review. These proposals may represent a new paradigm in the study of breast cancer, challenge existing paradigms, or look at an existing problem from a new perspective. The proposed studies may be untested but they should have a high probability of revealing new avenues of investigation. Idea Awards do not require preliminary or pilot data but they should be based on a sound scientific rationale established through a critical review and analysis of the literature and/or logical reasoning.

Innovator Awards: The intent of the Innovator Award is to provide accomplished and visionary scholars/investigators from the academic, government, and the private sector with funding and the freedom to pursue creative, potentially breakthrough research that could ultimately accelerate the eradication of breast cancer. Applicants are to be nominated by executives and/or leaders in diverse fields including, but not limited to, professional schools, advocacy groups, governmental agencies, the media, appropriate professional societies, and/or cancer detection and treatment centers. The primary criterion for making these awards will be the record and potential for accomplishment of the applicant rather than the merits of a specific research project. Experience in breast cancer research is not required; applicants can be either established breast cancer investigators or new to the field of breast cancer research. It is expected that the Innovator Award recipient will commit a minimum of 50% of his/her full-time professional effort to breast cancer research during the period of this award.

Physician-Scientist Training Awards: Physician-Scientist Training Awards address the critical shortage of physicians performing clinical breast cancer research. Eligible applicants are physicians in the last year of oncology graduate medical education or in the first 3 years as a junior faculty member. This award is intended to provide a mentored training experience that will prepare physicians for active careers in clinical breast cancer research. The training must take place at an institution or organization in the United States at which clinical research is performed. Key elements of this award are the involvement of a mentor with an established cancer research program with an emphasis in clinical breast cancer research and the aggressive protection of the Principal Investigator's time.

Postdoctoral Awards: The intent of Postdoctoral Traineeship Awards is to enable recent doctoral or medical degree graduates with limited postdoctoral experience (i.e., under 5 years) to extend either ongoing research related to breast cancer or to broaden the scope of their research to include work relevant to breast cancer under the guidance of a designated mentor. In FY03, Postdoctoral Award applications that included a multidisciplinary training program were given special consideration. Funds also were provided for research supplies in addition to salary, tuition, and travel. Eligible applicants should have been in the laboratory in which this research is to be performed no longer than 2 years at the time of submission. The research focus of Postdoctoral Awards should address an issue relevant to breast cancer biology, etiology, prevention, detection, diagnosis, and/or therapy. Individuals with a doctoral degree in any area are encouraged to apply.

Predoctoral Traineeship Awards: The intent of Predoctoral Traineeship Awards is to support promising graduate students studying breast cancer under the guidance of a designated mentor. The overall goal of Predoctoral Traineeship Awards is to prepare individuals for careers in breast cancer research. The award is targeted to individuals enrolled in an M.D. or Ph.D. program.