



**Department of Defense
US Army Medical Research
and Materiel Command**



**Fiscal Year 2004 (FY04)
Breast Cancer Research Program (BCRP)
Funded Awards List**

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Introduction

The US Army Medical Research and Materiel Command (USAMRMC) is pleased to present the awards list of funded projects for the fiscal year 2004 (FY04) Breast Cancer Research Program (BCRP). Award negotiations were completed on September 30, 2005. The awards listed in this document were selected in a competitive, two-tier review process. Funding decisions were based on evaluations of scientific excellence in the first tier, followed by determinations of programmatic relevance in the second tier. 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 FY04 specified \$150 million for breast cancer research. Following the receipt of funds, a programmatic strategy was developed, proposals were solicited and evaluated, award recommendations were made and contract negotiations were completed. A total of 227 awards was made.

The Training/Recruitment Award category includes Predoctoral Traineeship, Multidisciplinary Postdoctoral, and Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Partnership Training Awards. Predoctoral Traineeship Awards are intended to support promising graduate students studying breast cancer under the guidance of a designated mentor. The intent of the Multidisciplinary Postdoctoral Award is to enable recent medical or other doctoral degree graduates to obtain significant training and experience in at least two major disciplines so that they may pursue an independent career at the forefront of breast cancer research. HBCU/MI Partnership Training Awards are designed to support collaborations between multiple faculty-level investigators at an applicant HBCU/MI and a collaborating institution with investigators established in breast cancer research. The goal is to foster meaningful breast cancer research through which HBCU/MI faculty investigators will receive training toward establishing successful, independent breast cancer research programs.

The Research Award category consists of Idea and Concept Awards. The intent of the Idea Award is to support innovative, high-risk/high-reward breast cancer research that represents a new paradigm in the study of breast cancer. 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. Concept Awards provide investigators with the opportunity to pursue serendipitous observations and may produce preliminary data sufficient to enable the investigator to prepare a hypothesis-based proposal for future research.

The Infrastructure Award category consists of Center of Excellence Pilot and Breast Cancer Center of Excellence Awards. The Center of Excellence Pilot Award was offered for the first time in FY04. The intent of this award is to provide support for the recruitment of an integrated, synergistic, multi-institutional team of investigators who will work together to develop the preliminary infrastructure that will provide the foundation for a Breast Cancer Center of Excellence. The Breast Cancer Center of Excellence Award is 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 Innovator Award category encompasses the Innovator and Era of Hope Scholar Awards. The intent of the Innovator Award is to provide accomplished and visionary scholars/investigators with the funding and freedom to pursue creative, potentially breakthrough research that could ultimately accelerate the eradication of breast cancer. In FY04, the BCRP also initiated the Era of Hope Scholar Award. Candidates for this award are exceptionally talented, early-career scientists who have demonstrated that they are the “best and brightest” in their field(s) through extraordinary creativity, vision, and productivity, and who have shown both a strong potential for leadership in the breast cancer research community and a vision for the eradication of breast cancer. The award will provide sufficient funding to allow these emerging innovators to implement their vision and assume leadership roles in the breast cancer research community.

As the funded investigators embark on these projects, the Department of Defense and the US Army gratefully acknowledge the participation of their scientific, clinical, and consumer advisors. The expertise, vision, and diversity of perspective of all individuals who contributed to this program were vital to 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 body of research.

Predocctoral Traineeship Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC043052	Kusdra	Leonard	University of California, Berkeley	The Role of Src in Mammary Epithelial Tumorigenesis	\$90,000
BC043090	Iliopoulos	Dimitrios	Kimmel Cancer Center, Thomas Jefferson University	Wwox -Ap2 Signal Pathways: Effects on Life and Death of Breast Cancer Cells	\$90,000
BC043145	Hoadley	Katherine	University of North Carolina at Chapel Hill	Development of Biologically Based Therapies for Basal-Like Tumors	\$90,000
BC043170	Singh	Swatee	Duke University	Computer Aided Detection (CAD) of Breast Masses in Digital Tomosynthesis	\$90,000
BC043171	Jesneck	Jonathan	Duke University	A Computer-aided Diagnosis System for Breast Cancer Combining Digital Mammography and Genomics	\$90,000
BC043239	Brogard	John	University of California, San Diego	Regulation of Akt/protein Kinase B Signaling by a Novel Protein Phosphatase in Breast Cancer Cells	\$90,000
BC043242	Bunt	Stephanie	University of Maryland, Baltimore County	Immune Suppression and Inflammation in the Progression of Breast Cancer	\$90,000
BC043245	Diaz-Martinez	Laura	University of Minnesota	Role of Rad23 and Dsk2 in Nucleotide Excision Repair and Spindle Pole Body Duplication	\$89,999
BC043255	Fang	Wei	Vanderbilt University	EphA2 Receptor Tyrosine Kinase in Breast Cancer Invasion and Metastasis	\$90,000
BC043257	Hardee	Matthew	Duke University Medical Center	The Role of Her2 Signaling in Tumor Oxygenation and Breast Cancer Angiogenesis	\$90,000
BC043261	Frech	Maria	Georgetown University	Role of Cyclin D1 in Progression and Response to Chemoprevention of Estrogen Receptor alpha Initiated Hyperplasia and DCIS	\$90,000
BC043274	Blish	Kimberly	Wake Forest University Health Sciences	A Bone Morphogenetic Protein Antagonist as a Breast Cancer Growth Suppressor	\$89,975
BC043284	Cardenas-Navia	Laura	Duke University	Characterization and Modeling of Fluctuant Hypoxia in Breast Cancer	\$90,000
BC043304	Furuta	Saori	University of California, Irvine	Roles of Breast Cancer Susceptibility Genes BRCA's in Mammary Epithelial Cell Differentiation	\$90,000

BC043334	Waldman	Lynne	Whitehead Institute for Biomedical Research	Role of the Telomere-Binding Protein hPot1 in the Senescence of Human Mammary Epithelial Cells	\$85,601
BC043335	Reinicke	Kathryn	Case Western Reserve University	Developing a beta-Lapachone Prodrug for Therapy Against NQO1-Overexpressing Breast Cancers	\$89,999
BC043356	Lahusen	John	Georgetown University Medical Center	Interaction of AIB1 and BRCA1 in the Development of Breast Cancer	\$90,000
BC043365	Schuh	Natasha	University of Virginia	Deciphering the Roles of p130Cas (BCAR1) and c-Src in Antiestrogen Resistance: Potential Targets for Novel Therapeutics	\$89,445
BC043370	Chooniedass	Shilpa	University of Manitoba	Characterization of Steroid Receptor RNA Activator Protein Function in Modulating the Estrogen Signaling Pathway	\$87,297
BC043431	Farady	Christopher	University of California, San Francisco	Structural Characterization and Determinants of Specificity of Single-Chain Antibody Inhibitors of Membrane-Type Serine Protease 1	\$90,000
BC043453	Weinberg	Brent	Case Western Reserve University	Multimodality CT/SPECT Evaluation of Micelle Drug Carriers for Treatment of Breast Tumors	\$90,000
BC043467	Mull	Benjamin	University of Texas M.D. Anderson Cancer Center	Specific, Reversible Cytostatic Protection of Normal Cells Against Chemotherapeutics in Breast Cancer Therapy	\$90,000
BC043477	Muramatsu	Chisako	University of Chicago	Psychophysical Measures for Selection of Similar Images for Diagnosis of Masses and Clustered Microcalcifications on Mammograms	\$90,000
BC043532	Murchison	Elizabeth	Cold Spring Harbor Laboratory	Dicer in Mammary Tumor Stem Cell Maintenance	\$90,000
BC043551	Rosenberg	Avi	Cold Spring Harbor Laboratory	In-Vivo Characterization of Mammalian Polarity Genes as Novel Tumor Suppressors Involved in Breast Cancer Development and Progression in a Mouse Model	\$90,000
BC043574	Heaphy	Christopher	University of New Mexico School of Medicine	Evaluation of Genomic Instability as an Early Event in the Progression of Breast Cancer	\$89,982
BC043591	Cheng	Christine	University of California, San Diego	Regulated Ubiquitinylation-dependent Corepressor and Coactivator Complex Exchange as a Potential Target in Estrogen-dependent Breast Cancer	\$90,000
BC043607	Poczobutt	Joanna	University of Colorado Health Sciences Center	Human Mammary Epithelial Cells Transformed by Integrin-Linked Kinase Confer Malignant Phenotype to Adjacent Normal Cells	\$90,000
BC043609	Liu	Xiaoyu	The Regents of the University of California	MR Echo-Planar Imaging Based 2D Correlated Spectroscopy of Breast Tumors	\$90,000

BC043661	Ou	Jao	Vanderbilt University	Development of an Automated Modality-Independent Elastographic Image Analysis System for Tumor Screening	\$90,000
BC043717	Arulanandam	Rozanne	Queen's University, Kingston	A Novel Pathway for Stat3 Activation in Breast Cancer	\$90,000
BC043758	Soohoo	Christina	Beth Israel Deaconess Medical Center, Harvard Medical School	Role of the Telomerase Inhibitor PinX1 in Breast Cancer	\$89,910
BC043761	Daniel	Andrea	University of Minnesota	Exploring the Role of Ubiquitination in Progesterone Receptor Transcriptional Activation and Turnover in Breast Cancer Cells	\$90,000
BC043773	Thibodeaux	Clare	Georgetown University	Regulation of hTERT Expression in Primary Mammary Epithelial Cells	\$90,000
BC043786	Reddy	Haritha	Temple University	Role of CDK4 in Breast Development and Cancer	\$90,000
BC043793	Whitsett	Timothy	University of Alabama at Birmingham	Chemoprevention Against Breast Cancer with Genistein and Resveratrol	\$90,000
BC043794	Otchere	Abena	McMaster University	The Role of the POZ-ZF Transcription Factor Kaiso in Breast Cell Proliferation and Tumorigenesis	\$89,986
BC043813	Winters	David	University of Wisconsin-Madison	Microwave Imaging for Breast Cancer Detection: Time-Domain Inverse Scattering with Basis Functions	\$90,000
BC043871	Kristiansen	Troels	Johns Hopkins University School of Medicine	Characterization of Odin, a Novel Inhibitory Molecule, in EGF Receptor Signaling	\$87,918
BC043880	Zubairy	Simeen	Baylor College of Medicine	Estrogen-Induced Down-Regulation of Genes Role of ER(alpha) and Corepressors	\$90,000
BC043892	Saelzler	Matthew	Massachusetts Institute of Technology	The Origins and Potential Functions of Myofibroblasts in Breast Carcinoma	\$85,601
BC043943	Boudreau	Aaron	Lawrence Berkeley National Laboratory	Signaling Crosstalk: A Live in Situ Analysis of the Temporal and Spatial Regulation of Key Pathways in Human Breast Cancer Progression	\$90,000
BC043952	Lee	Dung-Fang	University of Texas M.D. Anderson Cancer Center	Inhibition of Mad1 by Akt Promotes HER-2/neu Oncogenic Signaling	\$90,000
BC043956	Onder	Tamer	Whitehead Institute/Massachusetts Institute of Technology	Role of Beta-catenin Signaling in Breast Cancer Invasiveness and Metastasis	\$84,371
BC044022	Miermont	Anne	Georgetown University	Role of Stat5a Loss in Progression of ER-alpha-Initiated Mammary Ductal Hyperplasia and DCIS	\$90,000

BC044066	Lilla	Jennifer	University of California, San Francisco	Biological Function of Plasma Kallikrein in Mammary Gland Stromal Development and Tumor Metastasis	\$90,000
BC044099	Stoddard	Amy	University of Wisconsin-Madison	A Biochemical Model for the Development of Tamoxifen Resistance in Breast Cancer Cells	\$90,000
BC044102	Pageau	Gayle	University of Massachusetts Medical School	The Relationship of BRAC1 to X-Chromosome Inactivation and XIST RNA in Normal Cells and Breast Cancer	\$90,000
BC044129	Ying	Haoqiang	Boston University School of Medicine	Regulation of Retinoblastoma Protein by Prolyl Isomerase Pin1	\$90,000
BC044139	Xia	Jessie	Duke University	Image Processing and Computer Aided Diagnosis in Computed Tomography of the Breast	\$90,000
BC044144	Veillet	Adeline	University of Wisconsin-Madison	Using Comparative Genomics to Find Breast Cancer Modifier Genes: Characterization of the Mcs5c Genetic Locus	\$89,208
BC044162	Li	Lin	Manitoba Institute of Cell Biology	The Role of Sp1 and Sp3 in the Regulation of Estrogen Responsive Genes in Breast Cancer Cell Lines	\$51,864
BC044199	Wafai	Razan	University of Melbourne	Epithelial to Mesenchymal Transitions in Human Breast Cancer	\$89,926
BC044267	Bansal	Niharika	Duke University	Molecular Mechanism of Action of RTA (Repressor of Tamoxifen Activity)	\$90,000
BC044338	Mitchell	Dianne	Texas A&M University System Health Science Center Research Foundation	Inhibition of Mammary Tumor Metastasis through Signaling Pathways Mediated by KiSS-1 G-Protein Coupled Receptor	\$90,000
BC044339	Min	Chengyin	Boston University School of Medicine	Cooperativity of NF-(kappa)B and DMBA in Mammary Tumorigenesis	\$90,000
BC044378	McKinley	Randolph	Duke University	Design, Implementation, and Characterization of a Dedicated Breast Computed MammoTomography System for Enhanced Lesion Imaging	\$90,000
BC044382	O'Neill	Erin	University of Chicago	Extranuclear Signaling Effects Mediated by the Estrogen Receptor	\$90,000
BC044395	Yalcin	Abdullah	University of Louisville Research Foundation, Inc.	ROLE of Inducible 6-Phosphofructo-2-Kinase (iPFK-2) in Controlling Metabolic Flux and Growth Activated by Ras in Breast Adenocarcinomas	\$90,000
BC044401	Zhu	Changfang	University of Wisconsin-Madison	Fluorescence and Diffuse Reflectance Spectroscopy for Breast Cancer Diagnosis during Core Needle Biopsy	\$89,764

BC044413	Bistulfi	Gaia	Roswell Park Cancer Institute	Vitamin A Metabolism and Silencing of a Tumor Suppressor Gene in Breast Cancer	\$89,987
BC044433	Xu	Chen	University of Connecticut	Problems and Solutions of Optical Tomography with a Priori Ultrasound Anatomic Information	\$90,000
BC044529	Mabb	Angela	University of Wisconsin-Madison	Characterization of a SUMO Ligase that is Essential for DNA Damage-Induced NF-Kappa B Activation	\$90,000
BC044533	Liu	Irwin	Duke University Medical Center	Defining the Role of Periostin in Breast Cancer Progression	\$90,000
BC044590	Kirkbride	Kellye	Duke University	Elucidating the Role of the Type III Transforming Growth Factor-beta Receptor in Bone Morphogenetic Signaling in Breast Cancer	\$90,000
BC044598	O'Brien	Mary Ann	McMaster University	Enhancing Involvement in Treatment Decision Making by Women with Breast Cancer	\$87,790

Multidisciplinary Postdoctoral Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC043057	Linggi	Bryan	Vanderbilt University	Biochemical and Computational Analysis of ErbB-4	\$400,668
BC043206	Jechlinger	Martin	Sloan-Kettering Institute for Cancer Research	Identification of Mechanisms of Breast Cancer Metastasis Using Tissue Specific Virus Delivery	\$293,388
BC043291	Li	Hua	Dartmouth Medical School	Identification of Pro-differentiation p53 Target Genes and Evaluation of Expression in Normal and Malignant Mammary Gland	\$375,331
BC043416	Kozlow	Wende	University of Virginia	Effect of a High Bone Turnover State Induced by Estrogen Deficiency on the Development and Progression of Breast Cancer Bone Metastases	\$405,000
BC043418	Kandere-Grzybowska	Kristiana	Northwestern University	Focal Adhesion Regulation by Microtubule Plus Ends in Breast Cancer Migration	\$207,360
BC043720	Harrell	Permila	Duke University	Do RARbeta2 and CBP Promote Apoptosis in Acutely Damaged Normal Mammary Epithelial Cells through Induction of IRF-1?	\$397,800
BC043864	Morimoto	Libby	Fred Hutchinson Cancer Research Center	Epidemiologic, Pathologic, and Genomic Influences on Breast Cancer Outcomes	\$490,482
BC044119	El-Sayed	Mohamed	University of Washington	"Smart" Polymeric Carriers for Enhanced Antisense Breast Cancer Therapy	\$433,565
BC044176	Song	Hong	Johns Hopkins University School of Medicine	Combination Treatment of HER2/neu Expressing Breast Cancer Metastasis by Targeted alpha-Particle Radioimmunotherapy and Cancer Vaccine	\$398,289

***Historically Black Colleges and Universities/Minority Institutions (BCU/MI)
Partnership Training Awards***

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC043167	Wang	Paul	Howard University	A Partnership Training Program in Breast Cancer Research Using Molecular Imaging Techniques	\$1,312,246
BC043180	Vadgama	Jaydutt	Charles R. Drew University of Medicine/University of California, Los Angeles	DREW-UCLA Breast Cancer Research and Training Partnership: Molecular/Cellular Pathogenesis Model	\$1,454,534

Idea Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC043093	Konieczny	Stephen	Purdue University	Identification of Mist1 as a Key Transcription Factor Controlling Mammary Epithelial Cell Growth	\$436,629
BC043125	Vander Jagt	David	University of New Mexico Health Sciences Center	Inhibition of the Pro-survival State in Breast Cancer Cells	\$450,000
BC043199	Carpenter	Janet	Indiana University School of Nursing	The Role of Serotonin in Hot Flashes After Breast Cancer	\$454,500
BC043301	Rohan	Thomas	Albert Einstein College of Medicine	Proteomic Prediction of Breast Cancer Risk: A Cohort Study	\$1,020,698
BC043548	Stein	Stanley	Ernest Mario School of Pharmacy	EPR Assembly of Microgel for FRET Imaging of Breast Cancer	\$463,273
BC043817	Braun	Rodney	Wayne State University School of Medicine	Use of Mitochondria-Specific Dye MKT-077 as a Radiosensitizer to Preoperatively Treat Locally Advanced Breast Cancer	\$449,147
BC043834	Kodibagkar	Vikram	University of Texas Southwestern Medical Center at Dallas	Novel Paracast MRI Contrast Agents for Prognostic Evaluation of Antiangiogenic Therapy of Breast Cancer	\$468,000
BC043843	Burgess	Richard	University of Wisconsin-Madison	Estrogen-related Receptor alpha (ERR[alpha])-Coactivator Interactions as Targets for Discovery of New Anti-breast Cancer Therapeutics	\$427,938
BC043908	Giorgio	Todd	Vanderbilt University	Surface Functionalized Nanoparticles and Nanocrystals for Proximity-Modulated, Early Neoplasia Detection, Imaging, and Treatment of Breast Cancer	\$453,000
BC043918	Cunningham	Albert	Louisiana State University	A Novel Approach for the Identification of Pharmacophores through Differential Toxicity Analysis of Estrogen Receptor Positive and Negative Cell Lines	\$372,542
BC043921	Griffith	Jeffrey	University of New Mexico Health Sciences Center	Prognostic Significance of Telomere Attrition in Ductal Carcinoma in Situ of the Breast	\$562,102
BC044010	Giorgio	Todd	Vanderbilt University	Discovery and Assessment of Novel Therapeutic and Imaging Agents for Breast Cancer: Differential Nuclear Targeting Peptides	\$453,000
BC044016	Sommer	Steve	Beckman Research Institute of the City of Hope	Do Structural Missense Variants in the ATM Gene Found in Women with Breast Cancer Cause Breast Cancer in Knock-In Mouse Strains?	\$507,000

BC044087	Bissell	Mina	Lawrence Berkeley National Laboratory	Use of HA-Metal Nanoparticles to Identify and Characterize Tumorigenic Progenitor Cell Subsets in Breast Tumors	\$386,569
BC044104	Symons	Marc	North Shore-Long Island Jewish Research Institute	Role of Rac GTPases in Chemokine-Stimulated Breast Carcinoma Metastasis	\$488,975
BC044177	Clarke	Christina	Northern California Cancer Center	The Hygiene Hypothesis and Breast Cancer: A Novel Application of an Etiologic Theory for Allergies, Asthma, and Other Immune Disorders	\$588,738
BC044225	Lemmon	Mark	University of Pennsylvania School of Medicine	Harnessing Novel Secreted Inhibitors of EGF Receptor Signaling for Breast Cancer Treatment	\$475,500
BC044260	Ludueno	Richard	University of Texas Health Science Center	Development of a Novel Chemotherapeutic Approach to Breast Cancer	\$388,957
BC044268	Ram	Prahlad	University of Texas M.D. Anderson Cancer Center	Functional Proteomic Analysis of Signaling Networks and Response to Targeted Therapy	\$453,000
BC044350	Muller	Alexander	Lankenau Institute for Medical Research	Development of a Novel Therapeutic Paradigm Utilizing a Mammary Gland-Targeted, Bin1-Knockout Mouse Model	\$479,575
BC044370	Watabe	Kounosuke	Southern Illinois University School of Medicine	The Role of Tumor Metastases Suppressor Gene, Drg1, in Breast Cancer	\$425,887
BC044440	Ponnazhagan	Selvarangan	University of Alabama at Birmingham	Gene Therapy for Osteolytic Breast Cancer Bone Metastasis	\$435,000
BC044468	Prives	Carol	Columbia University	Design and Testing of Bi-functional, P-loop-Targeted MDM2 Inhibitors	\$490,500
BC044551	Yamamoto	Fumiichiro	The Burnham Institute	Identification of Tumor Suppressor Genes by Genetic and Epigenetic Genome-Scanning	\$573,000
BC044616	Liu	Cheng	Scripps Research Institute	Legubicin, a Tumor-Activated Prodrug for Breast Cancer Therapy	\$563,100
BC044650	Songyang	Zhou	Baylor College of Medicine	A Proteomic Approach to Identify Phosphorylation-Dependent Targets of BRCT Domains	\$451,500
BC044669	Manfredi	James	Mount Sinai School of Medicine	Role of cdc25 Phosphatases in Human Breast Cancer	\$508,477
BC044690	Mousses	Spyro	Translational Genomics Research Institute	Accelerated Discovery and Validation of Novel Tumor Suppressor Genes in Breast Cancer	\$554,309
BC044693	Faris	Gregory	SRI International	Tumor Boundary Optical Labeling Using Fluorescence	\$574,814

BC044695	Barry	Michael	Baylor College of Medicine	Development of Adenoviral Ligand Libraries for Vector Targeting	\$448,566
BC044709	Krag	David	University of Vermont College of Medicine	Development of Methods for Selection of Phage-displayed Ligands on Microdissected Tumor Tissue	\$448,110
BC044716	Band	Vimla	Evanston Northwestern Healthcare Research Institute	Human Mammary Epithelial Cell Transformation by Rho GTPase through a Novel Mechanism	\$456,000
BC044721	Hauschka	Peter	Children's Hospital Corporation	Cathepsin K-Specific in Vivo Imaging of Breast Cancer Metastases	\$506,253
BC044744	Shin	Seung-Uon	University of Miami School of Medicine	Breast Cancer Therapy Using Antibody-Endostatin Fusion Proteins	\$454,499

Concept Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC044916	Spiegelman	Vladimir	University of Wisconsin - Madison	The Role of beta-TrCP Ubiquitin Ligase Receptor in the Development of Breast Cancer	\$108,375
BC044918	Hsu	Victor	Brigham and Women's Hospital	Downregulation of ErbB2 by Perturbing its Endocytic Recycling	\$131,125
BC044945	Tung	Ching-Hsuan	Massachusetts General Hospital	Protease-Mediated Anti-Cancer Therapy	\$130,770
BC044966	Zhang	Wei	University of Texas M.D. Anderson Cancer Center	The Cellular Localization of IGFBP5 Determines its Oncogenic Functions in Breast Cancer	\$112,500
BC044998	Hinshaw	Jerald	University of Utah	Epstein Barr Virus, Stem Cells, and Breast Cancer	\$112,125
BC045004	Yu	Dihua	University of Texas M.D. Anderson Cancer Center	The Role of ErbB2 in Breast Cancer Bone Metastasis: Inhibition of Hematopoiesis	\$112,500
BC045070	Feldman	Laurie	Beth Israel Deaconess Medical Center	The Significance of Erythropoietin Receptor (EpoR) Acquisition by Breast Cancer Cells	\$127,500
BC045095	Sood	Ashwani	Roswell Park Cancer Institute	Prostate-Derived Ets Factor, An Immunogenic Breast Cancer Antigen	\$127,250
BC045114	Rui	Hallgeir	Georgetown University	Building a Better Mouse for Human Breast Cancer Drug Testing	\$116,400
BC045147	Lee	Amy	University of Southern California	Novel Mechanism for Anti-Estrogen Resistance in Breast Cancer	\$121,937
BC045152	Carpenter	Graham	Vanderbilt University	Role of the Sec61 Translocon in ErbB-1 Trafficking to the Nucleus	\$114,000
BC045160	Ran	Sophia	Southern Illinois University School of Medicine	Improving Therapeutic Gains in Patients with Breast Cancer after Treatment with Paclitaxel	\$107,250
BC045234	Panning	Barbara	University of California, San Francisco	X Chromosome Inactivation and Breast Cancer: Epigenetic Alterations in Tumor Initiation and Progression	\$113,625
BC045250	Orkin	Stuart	Children's Hospital Boston	Mouse Model of Human Breast Cancer Initiated by a Fusion Oncogene	\$126,563
BC045265	Demaria	Sandra	New York University School of Medicine	Immunotherapy Targeting a Metastasis Regulator	\$126,750

BC045286	Parks	Christine	National Institute for Occupational Safety and Health	Telomere Length and Chronic Stress in the NIEHS Sister Study: Comparing Questionnaire Data on Stress with Biological Markers in Women at Risk of Breast Cancer	\$46,200
BC045295	Hu	Mickey	University of Texas M.D. Anderson Cancer Center	Targeting Malignant Breast Cancer Cells with a Tumor-Specific Neurotropic Peptide-Toxin	\$112,500
BC045315	Wu	Mei	University of Michigan	Development of Small-Molecule Inhibitors of RhoC GTPase for Treatment of Inflammatory Breast Cancer	\$112,104
BC045321	Covic	Lidija	New England Medical Center, Boston	Pepducin-Based Intervention of Breast Cancer Invasion	\$122,250
BC045324	Rizki	Aylin	Lawrence Berkeley National Laboratory	Effects of Extracellular Matrix on DNA Repair in Vivo	\$127,136
BC045336	Nahta	Rita	University of Texas M.D. Anderson Cancer Center	BTG1, a Novel Mediator of Chemosensitivity in Breast Cancer	\$112,500
BC045345	Chen	Fanqing	Lawrence Berkeley National Laboratory	Ultrasensitive Breast Cancer Imaging Using Anti-ErbB2-conjugated, Xenon Nanocage-coated Quantum Dots	\$127,063
BC045349	Eliopoulos	Nicoletta	McGill University	Bone Marrow Stromal Cells Genetically Engineered to Secrete Soluble Erythropoietin Receptor for Cell and Gene Therapy of Breast Cancer	\$110,266
BC045360	Walter	Louise	Northern California Institute for Research and Education	Targeting of Screening Mammography to Healthy Elderly Women	\$123,750
BC045370	Prasad	Nagendra	Purdue University School of Veterinary Medicine	Linking Obesity to Breast Cancer Metastasis: A Leptin - SHIP2-CXCR4 Axis	\$113,999
BC045393	Klostergaard	Jim	University of Texas M.D. Anderson Cancer Center	Magnetically Vectored Nanoparticles for Loco-Regional Treatment of Breast Cancer	\$112,500
BC045396	Anderson	Robin	Peter MacCallum Cancer Centre	BMP4 - A Potential Therapy for Breast Cancer Metastasis	\$80,986
BC045418	Mo	Yin-Yuan	Southern Illinois University	Dysregulation of RNA Interference in Breast Cancer	\$107,250
BC045437	Zhao	Feng-Qi	University of Vermont	Aberrant Expression of Germline-Specific Transcription Factor Oct-3/4 and Mammary Tumorigenesis	\$90,650
BC045453	Craig	Ruth	Dartmouth College	Therapeutic Conversion of Viability-Promoting MCL1 to Death-Inducing Forms: A Novel Strategy for Breast Cancer	\$119,925
BC045458	Stagg	John	McGill University	Characterization of the Immune Modulatory Effect of Regulatory T Cells on NK Cells during Breast Cancer for the Development of Novel Therapeutic Strategies	\$81,000

BC045490	Torres	Andrew	GE Research and Development Center	Minimum Description Length Sequence Analysis to Identify Relationships between Gene Mutations, microRNA Efficacy and Risk for Breast Cancer	\$172,641
BC045521	Zucker	Stanley	Northport VA Medical Center	Development of Chemokine (SDF-1/CXCL12)-Enhanced Transgenic Mouse Metastasis Model for Preclinical Testing of Novel Anti-Cancer Drugs	\$89,801
BC045529	Rui	Hallgeir	Georgetown University	Early Detection of Breast Cancer	\$116,400
BC045530	Hyder	Salman	University of Missouri - Columbia	Will Activation of Non-Functional p53 Protein in Breast Cancer Cells Arrest Tumor Progression?	\$110,250
BC045534	Gautier	Jean	Columbia University College of Physicians and Surgeons	Tumor Suppression by BRCA1: A Critical Role at DNA Replication Forks?	\$120,750
BC045536	Zimmers	Teresa	University of Miami School of Medicine	Does Skeletal Muscle Mass Influence Breast Cancer? Evaluating Mammary Tumorigenesis and Progression in Genetically Hyper-Muscular Mice	\$113,625
BC045539	Hauschka	Peter	Children's Hospital Boston	Hypoxic Tumor Progression of Bone-Metastatic Breast Cancer Is Induced by RANKL	\$126,563
BC045544	Neamati	Nouri	University of Southern California	Synergistic Inhibition of Her2/neu and p53-MDM2 Pathways	\$121,935
BC045550	Krasnykh	Victor	University of Texas M.D. Anderson Cancer Center	Affibody-Targeted Adenovirus Vectors for Gene Therapy and Imaging of Breast Tumors	\$28,125
BC045656	Horne	Mary	University of Iowa	Investigating the Function of Cyclin G2 Expression and Centrosomal Localization during Breast Cell Growth and the Consequences of Its Repression by Estrogen	\$110,625
BC045664	Dash	Alekha	Creighton University	A Novel in Situ GEL Drug Delivery System for Breast Cancer Treatment	\$106,875
BC045666	Galaktionov	Konstantin	Baylor College of Medicine	MicroRNA and Breast Cancer Progression	\$112,500
BC045670	Camarillo	Ignacio	Purdue University	Breast Cancer and Early Onset Childhood Obesity: Cell-Specific Gene Expression in Mammary Epithelia and Adipocytes	\$114,001
BC045696	Nimnual	Anjaruwee	Stony Brook University	Characterization of the Role of Breast Tumor Kinase (BRK) in Breast Cancer Cells Non-Responsive to EGFR-Targeted Agents	\$115,125
BC045699	Martin	Stuart	University of Maryland, Baltimore	Does Apoptotic Resistance Provide an Opportunity for Independent Tumor Evolution?	\$110,447

BC045704	Schedin	Pepper	AMC Cancer Research Center	Validation of a Pre-Clinical Model for the Investigation of Menarcheal Age on Breast Cancer Risk	\$120,000
BC045743	Rittling	Susan	Rutgers University	Stem Cells in Murine Mammary Cancer and Metastasis	\$134,250
BC045748	Samad	Fahumiya	La Jolla Institute for Molecular Medicine	Adipose Estrogen and Increased Breast Cancer Risk in Obesity: Regulation by Leptin and Insulin	\$155,475
BC045755	Padgett	Richard	Rutgers University	Role of MicroRNA Genes in Breast Cancer Progression	\$100,000
BC045756	Qi	Haiyan	University of Medicine and Dentistry of New Jersey - Robert Wood Johnson Medical School	RNA G-Quadruplexes as Novel Antitumor Agents for Breast Cancer	\$116,625
BC045773	Darimont	Beatrice	University of Oregon	A Non-Nuclear Role of the Estrogen Receptor-alpha in the Regulation of Cell-Cell Interactions	\$106,862
BC045779	Parker	Belinda	Peter MacCallum Cancer Centre	The Role of Stefin A in Breast Cancer Metastasis	\$80,412
BC045783	Klifa	Catherine	University of California, San Francisco	MRI Study of Uninvolved Breast Tissue for Patients with Locally Advanced Breast Cancer Undergoing Pre-Operative Chemotherapy	\$112,888
BC045788	Segal	Daniel	Tel Aviv University	Extrachromosomal Circular DNA in Breast Cancer - Role of BRCA Genes and Effect of Chemotherapy	\$103,000
BC045797	Deininger	Prescott	Tulane University	The Human L1 Element Causes DNA Double-Strand Breaks in Breast Cancer	\$111,375
BC045808	Latimer	Jean	University of Pittsburgh	A New Paradigm for African American Breast Cancer Involving Stem Cell Differentiation in a Novel Cell Culture System	\$114,000
BC045819	Weisz	Judith	Penn State University, Milton S. Hershey Medical Center	Lipid Peroxidation, Chronic Oxidative Stress, and Breast Cancer Incidence: Implication for Breast Cancer Prevention	\$109,875
BC045830	Iwamoto	Keisuke	University of California, Los Angeles	The "Big Bang" in Breast Oncology: The Origin of Mammary Tumors	\$115,875
BC045844	Cabot	Myles	John Wayne Cancer Institute	A Dual-Action Approach to Multidrug-Resistant Breast Cancer: Prophylaxis to Ensure Therapeutic Effect	\$141,600
BC045850	Murdoch	Fern	University of Wisconsin - Madison	The Impact of Long-Term Hormonal Therapy on Chromatin Structure in Breast Cancer Cells	\$106,622

BC045876	Marasco	Wayne	Dana-Farber Cancer Institute	Does Combination Immunotherapy with Human Monoclonal Antibodies against Her2 and CXCR4 Augment Breast Cancer Cell Killing in Vitro and in Vivo?	\$126,186
BC045940	Afaq	Farrukh	University of Wisconsin - Madison	Delphinidin: A Novel Agent for Inhibition of Breast Tumor Kinase Signaling by Targeting EGFR	\$109,125
BC045956	Blumenthal	Rosalyn	Garden State Cancer Center	Anti-Metastatic Effects of NCA-90 Antibody on Breast Cancer	\$138,819
BC045958	Darsey	Jerry	University of Arkansas for Medical Sciences	Noninvasive Phosphorus-31 Magnetic Resonance Spectral Characterization of Breast Tissue Anomalies Using Pattern Recognition and Artificial Intelligence	\$103,273
BC045978	Cai	Qiuyin	Vanderbilt University	Physical Activity, Oxidative Stress, and Breast Cancer Risk	\$114,000
BC046011	Rahman	K.	Wayne State University	Chemosensitization of Breast Cancer Cells to Chemotherapeutic Agents by 3,3'-Diindolylmethane (DIM)	\$113,250
BC046021	Lewis	Michael	Baylor College of Medicine	Unmasking Stem/Progenitor Cell Properties in Differentiated Epithelial Cells Using Short-Term Transplantation	\$112,487
BC046030	McIntire	William	Northern California Institute for Research and Education	A Polyamine-Oxidizing Enzyme as a Drug to Treat Breast Cancer	\$123,750
BC046053	Saha	Margaret	College of William and Mary	In Vivo Molecular Imaging of Mammary Tumorigenesis in Murine Model Systems	\$107,015
BC046063	Swartz	Melody	Swiss Federal Institute of Technology	An in Vitro Study of Breast Cancer Invasion into the Lymphatics	\$67,932
BC046103	Sokol	Sergei	Mount Sinai School of Medicine	Restoration of Epithelial Polarity in Metastatic Tumors	\$127,125
BC046108	Reddy	Thipparthi	Wayne State University	Sam68 and Breast Cancer	\$113,250
BC046113	Elmore	Lynne	Virginia Commonwealth University	A Novel Drug-Induced Bystander Effect in Breast Tumor Cells	\$111,741
BC046142	Erdman	Susan	Massachusetts Institute of Technology	Are Anti-inflammatory Lymphocytes Able to Induce Remission of Breast Cancer?	\$121,500
BC046151	Rijnkels	Monique	Baylor College of Medicine	Histone Modifications as Markers for Persistent Changes in the Mammary Gland after Pregnancy	\$101,250
BC046161	Gorski	Sharon	British Columbia Cancer Agency	The Role of Autophagy in Breast Cancer	\$80,918

BC046207	Dobrovic	Alexander	Peter MacCallum Cancer Centre	Predicting Breast Cancer Risk by Assaying Peripheral Blood Methylation	\$81,000
BC046220	Shields	George	Hamilton College	Development of a Computational Assay for the Estrogen Receptor	\$113,620
BC046227	Yim	John	University of Pittsburgh	Transcription Activator Reprogramming Gene Therapy (TARGET) of Breast Cancer Cells with Adenoviral Vectors for Interferon Regulatory Factors	\$105,589
BC046249	Lindeman	Geoffrey	Walter and Eliza Hall Institute of Medical Research	Breast Stem Cell Markers and Tumor Stem Cells in BRCA1, BRCA2, and Non-BRCA1/2 Women	\$81,000
BC046291	Westerlind	Kim	AMC Cancer Research Center	Muscle Contraction Arrests Tumor Growth	\$118,722
BC046292	Wang	Zhen-Guo	Evanston Northwestern Healthcare Research Institute	Creating Oncolytic Adenovirus Targeting Tumor Lymphatics	\$114,000
BC046294	Avraham	Shalom	Beth Israel Deaconess Medical Center	A Novel Mechanism for Anti-Breast Cancer Effect of Tumor-Associated Macrophage Mannose Receptor on Anti-Inflammatory JAK1-STAT3/SOCS Pathway	\$127,500
BC046324	Wulf	Gerburg	Beth Israel Deaconess Medical Center	Mapping Mammary Epithelial Cell Transformation in BRCA1 Mutant Mice	\$127,500
BC046325	Ganju	Ramesh	Beth Israel Deaconess Medical Center	Identification and Characterization of CXCR4-Positive Breast Cancer Stem Cells	\$127,500
BC046345	Sun	Lizhi	University of Iowa	Fluorescence-Enhanced Elasto-Optical Tomography for Molecular Imaging of Breast Cancer	\$106,416
BC046349	Mecozzi	Sandro	University of Wisconsin - Madison	Development of Hyperstable Micelles as Carriers for Sparingly Soluble Anticancer Drugs	\$74,909
BC046355	McGowan	Eileen	Garvan Institute of Medical Research	Regulation of Progesterone Receptors in Normal and Breast Cancer Cells through Differential Expression of microRNAs	\$105,992
BC046390	Li	Yi	Baylor College of Medicine	ID4 is a Critical Regulator of Breast Cancer Stem Cells	\$112,500
BC046402	Pullela	Phani	Marquette University	Estrogen Receptor Driven Inhibitor Synthesis	\$101,057
BC046403	Kumar	Jayant	University of Massachusetts Lowell	Enzymatically Synthesized Novel Oligomeric Catechins for Breast Cancer Treatment	\$114,750
BC046411	Rao	Subrahmanyewara	University of Nebraska	Filling in the Gap in Galectin-1 Export	\$110,250

Center of Excellence Pilot Award

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC043148	Clarke	Robert	Georgetown University School of Medicine	Obesity and Breast Cancer	\$147,500

Breast Cancer Center of Excellence Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC043120	Neugut	Alfred	The Trustees of Columbia University in the City of New York	Racial Disparities in the Initiation and Intensity of Adjuvant Therapy for Breast Cancer	\$9,974,795
BC043200	Chodosh	Lewis	University of Pennsylvania	Biological and Functional Imaging Approaches to Understanding Breast Cancer Metastasis, Progression, and Response to Therapy	\$9,999,995

Innovator Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC044779	Trichopoulos	Dimitrios	Harvard University	Early Life Processes, Endocrine Mediators, and Number of Susceptible Cells in Relation to Breast Cancer Risk	\$5,882,663
BC044788	Tsien	Roger	University of California, San Diego School of Medicine	Targeting Contrast and Therapeutic Agents to Tumors via Selective Unleashing of Polycationic Uptake Peptides	\$7,537,198
BC044798	Slamon	Dennis	The Regents of the University of California	An Integrated Program in Translational Research in Human Breast Cancer	\$7,719,166
BC044808	Pike	Malcolm	University of Southern California	Chemoprevention of Breast Cancer by Mimicking the Protective Effect of Early First Birth	\$6,462,659

Era of Hope Scholar Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
BC044776	Ramanujam	Nirmala	University of Wisconsin	Miniature and Molecularly Specific Optical Screening Technologies for Breast Cancer	\$2,342,591
BC044778	Burg	Karen	Clemson University	3-D Test Systems: New Tools for Unlocking the Mysteries of Breast Cancer	\$2,815,184
BC044782	Chang	Geoffrey	The Scripps Research Institute	Discovery of Potent Inhibitors for Breast Cancer Multidrug Resistance	\$4,239,475
BC044784	Donnenberg	Vera	University of Pittsburgh	Breast Cancer Stem Cells: A Novel Therapeutic Target	\$3,689,626
BC044791	Weaver	Valerie	University of Pennsylvania	A Biophysico-Computational Perspective of Breast Cancer Pathogenesis and Treatment Response	\$3,742,900
BC044793	Rahman	Nazneen	Institute of Cancer Research	Identification, Characterisation, and Clinical Development of the New Generation of Breast Cancer Susceptibility Alleles	\$3,143,728
BC044797	Brown	Edward	Massachusetts General Hospital	Angiogenic Signaling in Living Breast Tumor Models	\$2,431,348
BC044819	Skobe	Mihaela	Mount Sinai School of Medicine	Lymphatic Vasculature: Role in Breast Cancer Metastasis and New Therapeutic Opportunities	\$4,237,500
BC045034	Li	Christopher	Fred Hutchinson Cancer Research Center	Use of Depo-Medroxyprogesterone Acetate and Risk of Premenopausal Breast Cancer	\$4,324,986
BC045081	Chen	Junjie	Mayo Clinic and Foundation, Rochester	Genomic Instability and Breast Cancer	\$3,725,000

**Fiscal Year 2004 Breast Cancer Research Program
Peer Reviewers**

Peer Reviewer	Degree	Institution/Affiliation
Aaronson, Stuart	M.D.	Mount Sinai School of Medicine
Abate, Anne		Inflammatory Breast Cancer Research Foundation
Abbey, Craig	Ph.D.	University of California, Davis
Abdel-Mageed, Asim	D.V.M., Ph.D.	Tulane University Health Sciences Center
Abraham, Donald	Ph.D.	Virginia Commonwealth University
Abraham, George	M.D.	University of Rochester School of Medicine
Abraham, Robert	Ph.D.	The Burnham Institute
Achenbach, Carolyn		University of Virginia
Achilefu, Samuel	Ph.D.	Washington University
Adams, David	Ph.D.	Duke Comprehensive Cancer Center
Aft, Rebecca	M.D., Ph.D.	Washington University School of Medicine
Ahmad, Nihal	Ph.D.	University of Wisconsin
Ahmed, Khalil	Ph.D.	University of Minnesota/VA Medical Center
Ahmed, Mansoor	Ph.D.	University of Kentucky Medical Center
Ahsan, Habibul	M.D.	Columbia University Medical Center, School of Public Health
Akporiaye, Emmanuel	Ph.D.	University of Arizona Health Sciences Center
Alberts, Arthur	Ph.D.	Van Andel Research Institute
Algren, Leslie		American Cancer Society: Capital Area Service Center
Allan, Alison	Ph.D.	University of Western Ontario
Alligood, Martha		East Carolina University School of Nursing
Allworth, Ann	Ph.D.	Howard University College of Medicine
Andersen, Bogi	M.D.	University of California, Irvine
Angtuaco, Teresita	M.D.	University of Arkansas for Medical Sciences
Armato, Samuel III	Ph.D.	University of Chicago
Armer, Jane		Oncology Nursing Society
Artemov, Dmitri	Ph.D.	Johns Hopkins University School of Medicine
Bachelder, Robin	Ph.D.	Beth Israel Deaconess Medical Center

Badano, Aldo	Ph.D.	Food and Drug Administration
Baer, Richard	Ph.D.	Columbia University
Bai, Wenlong	Ph.D.	University of South Florida College of Medicine
Banerjee, Debabrata	Ph.D.	University of Medicine and Dentistry of New Jersey, Cancer Institute of New Jersey, Robert Wood Johnson Medical School
Banerjee, Partha	Ph.D.	Georgetown University Medical Center
Bar-Eli, Menashe	Ph.D.	University of Texas M.D. Anderson Cancer Center
Bargonetti, Jill	Ph.D.	Hunter College-City University of New York
Barlow, William	Ph.D.	Cancer Research and Biostatistics
Bartholomew, Blaine	Ph.D.	Southern Illinois University
Basu, Alakananda	Ph.D.	University of North Texas Health Science Center
Bates, Paula	Ph.D.	University of Louisville
Batra, Surinder	Ph.D.	University of Nebraska Medical Center, Eppley Cancer Center
Baumgartner, Kathy	Ph.D.	University of New Mexico
Beck, William	Ph.D.	University of Illinois at Chicago
Beerman, Christine		CMOC Waiting Room Breast Cancer Support Group
BenComo, Jose	Ph.D.	University of Texas M.D. Anderson Cancer Center
Bernett, Renee		Living Beyond Breast Cancer
Bertino, Joseph	M.D.	Cancer Institute of New Jersey
Bird, R. Curtis	Ph.D.	Auburn University
Birge, Raymond	Ph.D.	University of Medicine and Dentistry of New Jersey-New Jersey Medical School
Birshtein, Barbara	Ph.D.	Albert Einstein College of Medicine
Bissell, Mina	Ph.D.	Lawrence Berkeley National Laboratory
Blagg, Brian	Ph.D.	University of Kansas
Blay, Jonathan	Ph.D.	Dalhousie University Faculty of Medicine
Blomberg, Bonnie	Ph.D.	University of Miami School of Medicine
Boczko, Erik	Ph.D.	Vanderbilt University
Bolander, Franklyn Jr.	M.D., Ph.D.	University of South Carolina
Boldt, David	M.D.	University of Texas Health Science Center

Bolinger, Lizann	Ph.D.	National Research Council Canada
Bolla, Janet		University of Alabama at Birmingham, Comprehensive Cancer Center
Bolton, Judy	Ph.D.	University of Illinois at Chicago
Boothman, David	Ph.D.	Case Western Reserve University
Borgstahl-Kramer, Gloria	Ph.D.	University of Nebraska Medical Center, Eppley Cancer Center
Bos, Timothy	Ph.D.	Eastern Virginia Medical School
Bose, Shikha	M.D.	Cedars Sinai Medical Center
Bourguignon, Lilly Y.	Ph.D.	University of California, San Francisco
Bowman, Susan		Grand Rapid's Coalition for Breast Health
Brattain, Michael	Ph.D.	Roswell Park Cancer Institute
Braunhut, Susan	Ph.D.	University of Massachusetts Lowell
Bridges, Kenneth	M.D.	Harvard Medical School
Briehl, Margaret	Ph.D.	University of Arizona
Bright, Robert	Ph.D.	Texas Tech University Health Sciences Center
Broome, Carolyn	Ph.D.	Howard University
Brown, Anthony	Ph.D.	Weill Medical College of Cornell University
Brown, Diane	Ph.D.	University of Medicine and Dentistry of New Jersey-School of Public Health
Brown, Edward	Ph.D.	Massachusetts General Hospital
Brown, Kevin	Ph.D.	Louisiana State University Health Sciences Center
Brown, Myles	M.D.	Harvard Medical School
Brundage, Jane		Ann's Place, The Home of I Can
Bryan, Fredda		Sisters Network, Inc.
Bubb, Michael	M.D.	University of Florida
Buczko, Ellen	Ph.D.	Scientific Review Administrator
Bulinski, Jeannette	Ph.D.	Columbia University
Burke, George	M.D.	Medical College of Georgia
Burkett, Argyra		Susan G. Komen Breast Cancer Foundation
Butterfield, Lisa	Ph.D.	University of Pittsburgh

Cairns, Paul	Ph.D.	Fox Chase Cancer Center
Canales-Higgins, Doña		Sibley Memorial Hospital
Cancro, Michael	Ph.D.	University of Pennsylvania School of Medicine
Cangiarella, Joan	M.D.	New York University Medical Center
Canin, Beverly		Breast Cancer Options
Cannon, Martin	Ph.D.	University of Arkansas for Medical Sciences
Cantor, Alan	Ph.D.	University of South Florida, H. Lee Moffitt Cancer Center
Caplan, Elyse		Living Beyond Breast Cancer
Cargill, Mary Jo		Breast Cancer Recovery Foundation, Inc.
Carpenter, John Jr.	M.D.	University of Alabama at Birmingham
Cassell, Delanie	Ph.D.	Bayer Healthcare, LLC
Cassidy, Pamela	Ph.D.	University of Utah
Catling, Andy	Ph.D.	Louisiana State University Health Science Center
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, Helena	M.D.	University of California, Los Angeles School of Medicine
Chang, Jenny	M.D.	Baylor College of Medicine
Chatterjee, Malaya	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, Xinbin	Ph.D.	University of Alabama, Birmingham
Cheng, Shi-Yuan	Ph.D.	University of Pittsburgh
Chingos, Diana		University of Southern California-Norris Cancer Survivorship Advisory Council
Chrysogelos, Susan	Ph.D.	University of Michigan
Cianfrocca, Mary	D.O.	Northwestern University
Clinton, Gail	Ph.D.	Oregon Health Sciences University

Coats, Steven	Ph.D.	Amgen, Inc.
Cohen, Harvey	M.D., Ph.D.	Stanford University Medical School
Cohen, Marion	Ph.D.	University of Medicine and Dentistry of New Jersey
Cohick, Wendie	Ph.D.	Rutgers University
Collinge, William	Ph.D.	Collinge & Associates
Conboy, John	Ph.D.	Lawrence Berkeley National Laboratory
Coney, PonJola	M.D.	Meharry Medical College
Conover, Cheryl	Ph.D.	Mayo Clinic
Conti, Claudio	D.V.M., Ph.D.	University of Texas M.D. Anderson Cancer Center
Cornwall, Gail	Ph.D.	Texas Tech University Health Sciences Center
Corry, Peter	Ph.D.	William Beaumont Hospital
Cox, Adrienne	Ph.D.	University of North Carolina
Cramer, Scott	Ph.D.	Wake Forest School of Medicine
Cress, Douglas	Ph.D.	University of South Florida, H. Lee Moffitt Cancer Center
Crockett, Susan		Mid-Kansas Chapter of Susan G. Komen Breast Cancer Foundation
Cross, Sandra		Marin Breast Cancer Watch
Cryns, Vincent	M.D.	Northwestern University, Feinberg School of Medicine
Culliton, Barbara		Genome News Network
Cunningham, Joan	Ph.D.	University of South Carolina, Arnold School of Public Health
Cutler, Mary Lou	Ph.D.	Uniformed Services University of the Health Sciences
Daar, Ira	Ph.D.	National Cancer Institute/Frederick
Dadachova, Ekaterina	Ph.D.	Albert Einstein College of Medicine
Dahiya, Rajvir	Ph.D.	University of California, San Francisco/VAMC
Daniel, Juliet	Ph.D.	McMaster University
Daoud, Sayed	Ph.D.	Washington State University
Das, Anita	Ph.D.	Pacific Data Designs, Inc.
Das, Gokul	Ph.D.	Roswell Park Cancer Institute
Davis, Barry	Ph.D.	Scientific Review Administrator

Day, Agnes	Ph.D.	Howard University Cancer Center
Day, Mark	Ph.D.	University of Michigan
De Benedetti, Arrigo	Ph.D.	Louisiana State University Health Sciences Center
Dean, Elaine		Canadian Breast Cancer Network
Dehghani, Hamid	Ph.D.	Dartmouth College
Deininger, Prescott	Ph.D.	Tulane University Health Sciences Center
Delapine, Maryellen		Living Beyond Breast Cancer
DeMayo, Francesco	Ph.D.	Baylor College of Medicine
Deneka, Rhonda		Wisconsin Breast Cancer Coalition
Denko, Nicholas	M.D., Ph.D.	Stanford University
Dent, Paul	Ph.D.	Virginia Commonwealth University
Devine, Margaret		University of California, San Francisco, Breast SPORE Advocate
Diana, John	Ph.D.	Scientific Review Administrator
Diebold, Gerald	Ph.D.	Brown University
Diefenbach, Michael	Ph.D.	Fox Chase Cancer Center
DiPersio, C. Michael	Ph.D.	Albany Medical College
DiRenzo, James	Ph.D.	Dartmouth Medical School
Dong, Jin-Tang	Ph.D.	Emory University, Winship Cancer Institute
Donkor, Isaac	Ph.D.	University of Tennessee
Douglas, Joanne	Ph.D.	University of Alabama, Birmingham
Doxsey, Stephen	Ph.D.	University of Massachusetts Medical Center
D'Souza-Schorey, Crislyn	Ph.D.	University of Notre Dame
Dudley, Jaquelin	Ph.D.	University of Texas at Austin
Dunn, Sandra	Ph.D.	University of British Columbia
Eckhart, Walter	Ph.D.	Salk Institute
Eder, Joseph Jr.	M.D.	Dana Farber Cancer Institute
Edwards, Christopher	Ph.D.	Duke University Medical Center
El-Ashry, Dorraya	Ph.D.	University of Michigan Health System

Elliott, Bruce	Ph.D.	Queens University
Elmaleh, David	Ph.D.	Massachusetts General Hospital
Engel, Daniel	Ph.D.	University of Virginia School of Medicine
Eppstein, Margaret	Ph.D.	University of Vermont
Evans, Lemuel	Ph.D.	Scientific Review Administrator
Faraci, Christine		Breast Buds, Inc.
Fasco, Michael	Ph.D.	Wadsworth Center
Fawwaz, Rashid	M.D., Ph.D.	New York Presbyterian Hospital
Fehrman, Sandra		Cancer Society of Greenville County
Felding-Habermann, Brunhilde	Ph.D.	The Scripps Research Institute
Felix, Juan	M.D.	University of Southern California, Keck School of Medicine
Finken, Nancy		Virginia Breast Cancer Foundation
Fisher, Melissa		CARE Advocates at Tufts-New England Medical Center
Floyd, Carey Jr.	Ph.D.	Duke University
Folkman, Judah	M.D.	Harvard Medical School/Children's Hospital Boston
Formenti, Silvia	M.D.	New York University School of Medicine
Fornabaio, Louise		Ann's Place The Home of I Can
Foster, Barbara	Ph.D.	Roswell Park Cancer Institute
Foster, David	Ph.D.	Hunter College, City University of New York
Foster, Janet		Sioux Valley Clinic Breast and Bone Health
Franklin, Richard	Ph.D.	East Carolina University, Brody School of Medicine
Freedman, Jeffrey	Ph.D.	Scientific Review Administrator
Freedman, Jeffrey	Ph.D.	Scientific Review Administrator
Freedman, Matthew	M.D., MBA	Georgetown University Medical Center
Frew, Ralph	D.D.S., M.P.H.	Scientific Review Administrator
Friedman, Sue		FORCE: Facing Our Risk of Cancer Empowered
Frost, Andra	M.D.	University of Alabama at Birmingham
Funston-Dillon, Diane		Surviving Breast Cancer Support Group

Fuqua, Suzanne	Ph.D.	Baylor College of Medicine
Gabel, Molly	M.D.	Cancer Institute of New Jersey/University of Medicine and Dentistry of New Jersey
Gabrielson, Edward	M.D.	John Hopkins Cancer Center
Gabrilovich, Dmitry	M.D., Ph.D.	University of South Florida, H. Lee Moffitt Cancer Center
Galanis, Evanthia	M.D.	Mayo Clinic
Gammon, Marilie	Ph.D.	University of North Carolina
Ganapathi, Ram	Ph.D.	Cleveland Clinic Foundation
Gendler, Sandra	Ph.D.	Mayo Clinic Scottsdale
Gewirtz, David	Ph.D.	Virginia Commonwealth University, MCV Campus
Ghandehari, Hamid	Ph.D.	University of Maryland, Pharmacy School
Ghoda, Lucy	Ph.D.	University of Colorado Health Science Center
Gimotty, Phyllis	Ph.D.	University of Pennsylvania School of Medicine
Ginsberg, Mara		To Life!
Giorgio, Todd	Ph.D.	Vanderbilt University
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
Goins, William	Ph.D.	University of Pittsburgh School of Medicine
Goldblatt, Muriel		SHARE
Gollahon, Lauren	Ph.D.	Texas Tech University
Good, Walter	Ph.D.	University of Pittsburgh
Goodman, Alan	Ph.D.	Scientific Review Administrator
Goss, Kathleen	Ph.D.	University of Cincinnati
Graham, David	M.D.	Carle Cancer Center
Grant, Stephen	Ph.D.	University of Pittsburgh Graduate School of Public Health
Gray, Alice		Breast Cancer Network of WNY, Inc.
Gregor, Polly	Ph.D.	Memorial Sloan-Kettering Cancer Center
Griffin, Robert	Ph.D.	University of Minnesota

Griffith, Jeffrey	Ph.D.	University of New Mexico School of Medicine
Groden, Joanna	Ph.D.	University of Cincinnati, HHMI
Grossman, Ruth	D.D.S.	Scientific Review Administrator
Guillermo, Romero	Ph. D.	University of Pittsburgh School of Medicine
Gulati, Jag	Ph.D.	Scientific Review Administrator
Gullapalli, Purnachandra	Ph.D.	University of Maryland Medical Center
Gupta, Rishab	Ph.D.	John Wayne Cancer Institute
Guvakova, Marina	Ph.D.	University of Pennsylvania
Haggerty, Deb		Florida Breast Cancer Coalition Research Foundation
Hahn, Peter	Ph.D.	State University of New York-Upstate Medical University
Haimovitz-Friedman, Adriana	Ph.D.	Memorial Sloan Kettering Cancer Institute
Hall, Lynn		University of Virginia Cancer Center
Hamburger, Anne	Ph.D.	University of Maryland Baltimore School of Medicine
Handley, Rita		Virginia Breast Cancer Foundation
Hann, Stephen	Ph.D.	Vanderbilt University School of Medicine
Hardy, Robert	Ph.D.	University of Alabama at Birmingham
Harris, Jules	M.D.	Rush University
Hartline, Anne		Providence Everett Medical Center - Comprehensive Breast Center
Hasan, Tayyaba	Ph.D.	Harvard Medical School/ Massachusetts General Hospital
Haut, Michael	M.D.	Pennsylvania Hospital
Havlin, Kathleen	M.D.	Evanston Northwestern Healthcare
Hayes, Colleen	Ph.D.	University of Wisconsin
Helferich, William	Ph.D.	University of Illinois
Helman, Sandy	Ph.D.	Scientific Review Administrator
Higgins, Paul	Ph.D.	Albany Medical College
Hilf, Russell	Ph.D.	University of Rochester School of Medicine and Dentistry
Hollingsworth, Michael	Ph.D.	University of Nebraska Medical Center
Holt, Jeffrey	M.D.	University of Colorado Health Sciences

Holt, Shawn	Ph.D.	Virginia Commonwealth University School of Medicine
Hoopes, P. Jack	D.V.M., Ph.D.	Dartmouth Medical School
Hopmeier, Michael	M.S.	Innovative & Unconventional Concepts
Horowitz, Karen		Metro West Medical Center
Horwitz, Susan	Ph.D.	Albert Einstein College of Medicine
Hosick, Howard	Ph.D.	Washington State University
Hostetter, Eunice		Evergreen Hospital Medical Center
Hoye, Thomas	Ph.D.	University of Minnesota
Hsieh, Jer-Tsong	Ph.D.	University of Texas Southwestern Medical Center at Dallas
Hsu, Tien	Ph.D.	Hollings Cancer Center, Medical University of South Carolina
Hu, Guo-Fu	Ph.D.	Harvard Medical School
Hu, Mickey	Ph.D.	University of Texas M.D. Anderson Cancer Center
Huet-Hudson, Yvette	Ph.D.	University of North Carolina, Charlotte
Huff, Vicki	Ph.D.	University of Texas M.D. Anderson Cancer Center
Hunt, Jay III	Ph.D.	Louisiana State University Health Sciences Center
Hunt, Kelly	M.D.	University of Texas M.D. Anderson Cancer Center
Hurwitz, Arthur	Ph.D.	National Cancer Institute
Ip, Margot	Ph.D.	Roswell Park Cancer Institute
Ittmann, Michael	M.D., Ph.D.	Houston VAMC
Jackson, Cynthia	Ph.D.	Rhode Island Hospital
Jacobs, Lisa	M.D.	Johns Hopkins University
James, Claudine		Sisters Network, Inc., Houston Chapter
Jara, Hernán	Ph.D.	Boston University Medical Center
Jeng, Meei-Huey	Ph.D.	Indiana University
Jenski, Laura	Ph.D.	Marshall University
Jernigan, Cheryl		The Susan G. Komen Breast Cancer Foundation
Jhanwar, Suresh	Ph.D.	Memorial Sloan Kettering Cancer Center
Jiang, Yulei	Ph.D.	The University of Chicago

John, Gilbert	Ph.D.	Oklahoma State University
John, Lauren		Breast Cancer Action
Johnson, Carolyn	Ph.D.	Tulane University School of Public Health and Tropical Medicine
Johnson, Michael	Ph.D.	Georgetown University, Lombardi Cancer Center
Johnston, Randal	Ph.D.	University of Calgary
Jones, Elva		Appalachian Cancer Network
Jones, Frank	Ph.D.	Tulane University Health Sciences Center
Justice, Mary		Breast Cancer Alliance of Greater Cincinnati
Kachnic, Lisa	M.D.	Boston Medical Center
Kandpal, Raj	Ph.D.	Fordham University
Kane, Madeleine	M.D., Ph.D.	University of Colorado Health Science Center
Kane, Susan	Ph.D.	California State University
Katdare, Meena	Ph.D.	Weill Medical College of Cornell University
Keely, Patricia	Ph.D.	University of Wisconsin
Keiser, Hope		Arkansas Affiliate of the Susan G. Komen
Keith, Verna	Ph.D.	Arizona State University
Kelly, Thomas Jr.	Ph.D.	University of Arkansas for Medical Sciences
Kemp, Christopher	Ph.D.	Fred Hutchinson Cancer Research Center
Kerans, Lori		Decatur Memorial Hospital
Keri, Ruth	Ph.D.	Case Western Reserve University
Kern, Francis	Ph.D.	Lexicon Genetics, Inc.
Key, Nancy		Evergreen Healthcare
Killary, Ann	Ph.D.	University of Texas M. D. Anderson Cancer Center
Kim, Hyeong-Reh	Ph.D.	Wayne State University
Kim, Katherine		Susan G. Komen Breast Cancer Foundation
Kimler, Bruce	Ph.D.	University of Kansas Medical Center
Kimmel, Marek	Ph.D.	Rice University
Kinch, Michael	Ph.D.	MedImmune, Inc.

Kiyokawa, Hiroaki	M.D., Ph.D.	University of Illinois-Chicago
Klinge, Carolyn	Ph.D.	University of Louisville School of Medicine
Knudsen, Erik	Ph.D.	University of Cincinnati
Knutson, Keith	Ph.D.	University of Washington
Kohlmeier, Hermann	M.D., Ph.D., D.Sc.	University of North Carolina-Chapel Hill
Kosek, Kathryn		Ann's Place, the Home of I Can
Kramer, Elissa	M.D.	New York University Medical Center
Krupinski, Elizabeth	Ph.D.	University of Arizona
Kubo, Ralph	Ph.D.	Gemini Science, Inc.
Kumar, M. Vijay	Ph.D.	Medical College of Georgia
Kumar, Rakesh	Ph.D.	University of Texas M.D. Anderson Cancer Center
Kute, Timothy	Ph.D.	Wake Forest University School of Medicine
Kyprianou, Natasha	Ph.D.	University of Kentucky College of Medicine
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
Lamb, Dolores	Ph.D.	Baylor College of Medicine
Lamph, William	Ph.D.	Ligand Pharmaceuticals Incorporated
Landsittel, Doug	Ph.D.	Duquesne University
Lane, Timothy	Ph.D.	UCLA School of Medicine
Lange, Carol	Ph.D.	University of Minnesota Cancer Center
Larsson, Stephan	M.D.	Vancouver Island Cancer Centre
Latimer, Jean	Ph.D.	University of Pittsburgh School of Medicine
Leach, Robin	Ph.D.	University of Texas Health Science Center
Lechleider, Robert	M.D.	Georgetown University Medical School
Lee, Chung	Ph.D.	Northwestern University Medical School
Lee, Eva	Ph.D.	Georgia Institute of Technology
Lee, Jiing-Dwan	Ph.D.	Scripps Research Institute

Lee, Sam	Ph.D.	Harvard Institutes of Medicine/Beth Israel Deaconess Medical Center
Lee, William	M.D., Ph.D.	University of Pennsylvania
Lehman, Constance	M.D., Ph.D.	Seattle Cancer Care Alliance
Lelievre, Sophie	Ph.D., D.V.M.	Purdue University
Leung, Benjamin	Ph.D.	Scientific Review Administrator
Lewis, Michael	Ph.D.	Baylor College of Medicine
Li, Rong	Ph.D.	University of Virginia
Liebhaber, Stephen	M.D.	University of Pennsylvania
Liebler, Daniel	Ph.D.	Vanderbilt University Medical Center
Lillard, James Jr.	Ph.D., M.B.A.	Morehouse School of Medicine
Lin, Young	D.V.M., Ph.D.	Ohio State University
Linden, Charles	Jr., Ph.D.	Unconventional Concepts, Inc.
Lingle, Wilma	Ph.D.	Mayo Clinic
Lingrel, Jerry	Ph.D.	University of Cincinnati College of Medicine
Lipkus, Isaac	Ph.D.	Duke University Medical Center
Littmann, Lori		American Cancer Society
Locker, Joseph	M.D., Ph.D.	Albert Einstein College of Medicine
Lopaczynski, Wlodek	M.D., Ph.D.	BBI Biotech Research Laboratories
Lorenzi, Matthew	Ph.D.	Bristol-Myers Squibb
Lostumbo, Liz		Metropolitan Washington Breast Cancer Coalition
Lowery, Dolores		Scientific Review Administrator
Lowrey, Christopher	M.D.	Dartmouth Medical School
Lu, Junxuan	Ph.D.	Hormel Institute, University of Minnesota
Lubaroff, David	Ph.D.	University of Iowa
Lubin, Bertram	M.D.	Children's Hospital Oakland Research Institute
Lum, Clark	Ph.D.	Scientific Review Administrator
Lupu, Ruth	Ph.D.	Evanston Northwestern Healthcare Research Institute
MacDonald, Carolyn	Ph.D.	University of Albany

Madalengoitia, Jose	Ph.D.	University of Vermont
Maddock, Jason	Ph.D.	University of Hawaii
Maidment, Andrew	Ph.D.	Hospital of the University of Pennsylvania
Malkas, Linda	Ph.D.	Indiana University School of Medicine
Malli, Sophie		Magee Women's' Hospital
Manfredi, James	Ph.D.	Mount Sinai School of Medicine
Manni, Andrea	M.D.	Penn State Milton S. Hershey Medical Center
Martin, Kim		Sisters Network Dayton
Mastro, Andrea	Ph.D.	Pennsylvania State University
Mauro, Laura	Ph.D.	University of Minnesota
Mayer, Bruce	Ph.D.	University of Connecticut Health Center
Mayo, Lindsey	Ph. D.	Case Western Reserve University
Mazzarella, Laurie		YWCA of the Middle Rio Grande
McCarthy, James	Ph.D.	University of Minnesota
McCarty, Kenneth Jr.	M.D., Ph.D.	University of Pittsburgh
McColl, Roderick	Ph.D.	University of Texas Southwestern Medical Center
McConkey, David	Ph.D.	University of Texas M.D. Anderson Cancer Center
McCubrey, James	Ph.D.	East Carolina University, Brody School of Medicine
McDaniel, Lisa	Ph.D.	University of Texas Southwestern Medical Center
McDonagh, Kevin	M.D.	University of Michigan
McGuffie, Eileen	Ph.D.	Scientific Review Administrator
McIntyre, Carrie		Cancer Community Outreach Board of New Hanover
McMahon, Steven	Ph.D.	Wistar Institute
McNeel, Douglas	M.D., Ph.D.	University of Wisconsin
Meadows, Gary	Ph.D.	Washington State University College of Pharmacy
Medrano, Estela	Ph.D.	Baylor College of Medicine
Mehta, Parmender	Ph.D.	University of Nebraska Medical Center
Mehta, Rajendra	Ph.D.	IIT Research

Mehta, Rajeshwari	Ph.D.	University of Illinois Medical Center
Meier, Kathryn	Ph.D.	Washington State University
Meluh, Pamela	Ph.D.	Johns Hopkins University School of Medicine
Meric-Bernstam, Funda	M.D.	University of Texas M.D. Anderson Cancer Center
Merkle, Carrie	Ph.D.	University of Arizona
Meyn, M. Stephen	M.D., Ph.D.	The Hospital for Sick Children
Michel, Loren	M.D.	Memorial Sloan-Kettering Cancer Center
Miele, Lucio	M.D., Ph.D.	University of Illinois at Chicago
Miller, Alexandra	Ph.D.	Armed Forces Radiobiology Research Institute
Mohamadzadeh, Mansour	Ph.D.	United States Army Medical Research Institute for Infectious Diseases
Moore, Anne	M.D.	New York Presbyterian Hospital
Moore, Dianne		Canadian Breast Cancer Network
Morris, Patricia	Ph.D.	Rockefeller University
Mueller, Barbara	Ph.D.	La Jolla Institute for Molecular Medicine
Mueller, Susette	Ph.D.	Georgetown University Medical School
Mukherjee, Pinku	Ph.D.	Mayo Clinic, Scottsdale
Mukherji, Bijay	M.D.	University of Connecticut
Mukhtar, Hasan	Ph.D.	University of Wisconsin, Medical School Comprehensive Cancer Center
Mulhern, Sally	Ph.D.	Scientific Review Administrator
Murphy, Laura	Ph.D.	Southern Illinois University School of Medicine
Muti, Paola	M.D.	State University of New York at Buffalo
Naines, Kristie		University of North Florida
Narayan, Satya	Ph.D.	University of Florida
Narla, Mohandas	Sc.D.	Lindsley F. Kimball Research Institute
Naylor, Susan	Ph.D.	University of Texas Health Science Center at San Antonio
Nelson, Colleen	Ph.D.	University of British Columbia, Jack Bell Research Centre
Nelson, Mark	Ph.D.	University of Arizona
Nephew, Kenneth	Ph.D.	Indiana University School of Medicine

Ness, Scott	Ph.D.	University of New Mexico Health Science Center
Neville, Margaret	Ph.D.	University of Colorado Health Science Center
Nishimura, Michael	Ph.D.	University of Chicago Medical Center
Nordeen, Steven	Ph.D.	University of Colorado Health Sciences Center
O'Connell, Peter	Ph.D.	Virginia Commonwealth University
Oesterreich, Steffi	Ph.D.	Baylor College of Medicine
Oliver, Dwight	M.D.	University of Texas-Houston Medical School
O'Rourke, Maureen	Ph.D.	University of North Carolina, Greensboro
Ouchi, Toru	Ph.D.	The Derald H. Rittenberg Cancer Center
Oursler, Merry Jo	Ph.D.	Mayo Clinic and Foundation
Ove, Peter	Ph.D.	Scientific Review Administrator
Ozer, Howard	M.D., Ph.D.	University of Oklahoma Health Sciences Center
Pacheco, Patricia		Ann's Place, The Home of I Can
Pakhomov, Serguei	Ph.D.	Mayo Foundation
Palecek, Freda		Palmetto Health Baptist - Bosom Buddies
Paliwal, Bhudatt	Ph.D.	University of Wisconsin
Palucka, A. Karolina	M.D., Ph.D.	Baylor Institute for Immunology Research
Pardo, Francisco	M.D.	University of California, San Diego
Park, Ben	M.D., Ph.D.	Johns Hopkins University
Parker, Alexander	Ph.D.	Mayo Clinic
Parsons, Ramon	M.D., Ph.D.	Columbia University
Pasche, Boris	M.D., Ph.D.	Northwestern University
Pasquale, Elena	Ph.D.	The Burnham Institute
Pasternack, Gary	M.D., Ph.D.	Johns Hopkins University School of Medicine
Patriotis, Christos	Ph.D.	Fox Chase Cancer Center
Paunesku, Tatjana	Ph.D.	Northwestern University
Penn, Linda	Ph.D.	Ontario Cancer Institute
Pentz, Lundy	Ph.D.	Scientific Review Administrator

Perlmutter, Jane		Y-ME National Breast Cancer Organization
Petty, Elizabeth	M.D.	University of Michigan School of Medicine
Picus, Joel	M.D.	Washington University School of Medicine
Pins, Michael	M.D.	Northwestern University
Pizzo, Salvatore	M.D., Ph.D.	Duke University Medical Center
Plymate, Stephen	M.D.	University of Washington
Poola, Indra	Ph.D.	Howard University Medical School
Portis, Natalie Compagni		Breast Cancer Action
Poston II, Walker S. Carlos	Ph.D.	University of Missouri at Kansas City
Potter, David	M.D., Ph.D.	Indiana University
Potter, Philip	Ph.D.	St. Jude Children's Research Hospital
Prestwich, Glenn	Ph.D.	University of Utah
Prochownik, Edward	M.D., Ph.D.	Children's Hospital of Pittsburgh
Putnam, David	Ph.D.	Cornell University
Qian, Wei	Ph.D.	University of South Florida, College of Medicine
Quelle, Dawn	Ph.D.	University of Iowa
Rabbani, Shafaat	M.D.	McGill University
Radany, Eric	M.D., Ph.D.	University of California, Irvine
Ramakrishnan, Sundaram	Ph.D.	University of Minnesota
Rana, Ajay	Ph.D.	Cancer and Cardiology Research Institute, Texas A&M University System Health Science Center
Rasenick, Mark	Ph.D.	University of Illinois at Chicago College of Medicine
Raylman, Raymond	Ph.D.	West Virginia University
Reddy, Kaladhar	Ph.D.	Wayne State University School of Medicine
Redmond, Carol	Sc.D.	University of Pittsburgh
Revell, Linda		Vermont Cancer Network
Riegel, Anna	Ph.D.	Lombardi Cancer Center, Georgetown University Medical Center
Riese, David	Ph.D.	Purdue University
Rillema, James	Ph.D.	Wayne State University

Rinker-Schaeffer, Carrie	Ph.D.	University of Chicago
Robbins, Paul	Ph.D.	University of Pittsburgh School of Medicine
Roberts, Charles Jr.	Ph.D.	Oregon Health and Science University
Roberts, Laura		American Cancer Society
Rocconi, Vicki		John Muir/Mt. Diablo Health System
Rodgers, Charles	Ph.D.	Scientific Review Administrator
Rodland, Karin	Ph.D.	Pacific Northwest National Lab
Roggenbuck, Kyle		Y-ME National Breast Cancer Organization - Chicagoland Affiliate
Rosenberg, Daniel	Ph.D.	University of Connecticut Health Center
Ross, Jeffrey	M.D.	McArdle Laboratory
Rowan, Brian	Ph.D.	Tulane University School of Medicine
Rudolph-Owen, Laura	Ph.D.	Vertex Pharmaceuticals, Inc.
Rui, Hallgeir	M.D., Ph.D.	Georgetown University, Lombardi Cancer Center
Rush, Laura	D.V.M., Ph.D.	The Ohio State University
Russo, Jose	M.D.	Fox Chase Cancer Center
Sabol, John	Ph.D.	Global Applied Science Laboratory
Samei, Ehsan	Ph.D.	Duke University
Sandberg, Anna	Dr.P.H.	Scientific Review Administrator
Sandberg, Howard	Ph.D.	Scientific Review Administrator
Sang, Qing-Xiang	Ph.D.	Florida State University
Sansone, Christine		Adelphi New York Statewide Breast Cancer Hotline
Sarb, Nan		Flynn Center, Providence Everett Medical
Sarkar, Fazlul	Ph.D.	Wayne State University School of Medicine
Sartorius, Carol	Ph.D.	University of Colorado Health Sciences Center
Sato, Taka-Aki	Ph.D.	Columbia University
Savage, Gale	M.D.	Scientific Review Administrator
Saw, Cheng	Ph.D.	UPMC Cancer Pavilion
Schaerdel, Arthur	D.V.M.	Scientific Review Administrator

Schaller, Mike	Ph.D.	University of North Carolina
Schmitt, Mark	Ph.D.	State University of New York, Upstate Medical University
Schneider, Barbara	Ph.D.	Louisiana State University Health Sciences Center
Schoenberger, Stephen	Ph.D.	La Jolla Institute for Allergy and Immunology
Schuemann, Margaret		Medical College of Wisconsin Breast Care Center
Schwartz, Marc	Ph.D.	Georgetown University/Lombardi Cancer Center
Sears-Pelz, Rosalie	Ph.D.	Oregon Health & Sciences University
Seewaldt, Victoria	M.D.	Duke University Medical Center
Segall, Jeffrey	Ph.D.	Albert Einstein College of Medicine
Segelken, Jane		Ithaca Breast Cancer Alliance
Sellers, Thomas	Ph.D.	H. Lee Moffitt Cancer Center and Research Institute
Sens, Donald	Ph.D.	University of North Dakota, School of Medicine and Health Sciences
Shaw, Leslie	Ph.D.	University of Massachusetts Medical School
Sheikh, M. Saeed	M.D., Ph.D.	State University of New York, Upstate Medical University
Shen, Zhiyuan	Ph.D.	University of New Mexico School of Medicine
Sheng, Shijie	Ph.D.	Wayne State University School of Medicine
Shi, Yufang	Ph.D.	Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey
Shively, John	Ph.D.	Beckman Research Institute of the City of Hope
Shore, Scott	Ph.D.	The Fels Institute, Temple University School of Medicine
Shridhar, Viji	Ph.D.	Mayo Clinic
Shtivelman, Emilyya	Ph.D.	University of California, San Francisco, Cancer Research Institute
Shuman, Nancy		Hadassah
Shupnik, Margaret	Ph.D.	University of Virginia
Shyamala-Harris, G.	Ph.D.	Lawrence Berkeley National Laboratory
Siegal, Gene	M.D., Ph.D.	University of Alabama at Birmingham
Siegel, Peter	Ph.D.	McGill University
Silberstein, Gary	Ph.D.	University of California, Santa Cruz
Silver, Eve		The Susan G. Komen Breast Cancer Foundation

Simon, Michael	M.D.	Wayne State University
Simpkins, Henry	M.D., Ph.D.	Temple University School of Medicine
Singh, Gurmit	Ph.D.	Juravinski Cancer Centre
Singh, Rakesh	Ph.D.	University of Nebraska Medical Center
Skapek, Stephen	M.D.	St. Jude Children's Research Hospital
Skinner, Jeanette		American Cancer Society
Sloboda, Walter		Scientific Review Administrator
Slovin, Susan	M.D., Ph.D.	Memorial Sloan Kettering Cancer Center
Smith, Allen		Scientific Review Administrator
Smith, Carolyn	Ph.D.	Baylor College of Medicine
Smith, David	Ph.D.	Mayo Foundation
Snyder, John	Ph.D.	Boston University
Sonenshein, Gail	Ph.D.	Boston University School of Medicine
Song, Robert	M.D., Ph.D.	University of Virginia
Sonnenschein, Carlos	M.D.	Tufts University School of Medicine
Spielmann, H. Peter	Ph.D.	University of Kentucky
Spieth, Michael	M.D.	Marshfield Clinic
Spindler, Linda		Arkansas Affiliate of the Susan G. Komen Foundation
Spira, James	Ph.D.	Navy Medical Center
Strivastava, Rakesh	Ph.D.	University of Maryland
Stanford, Sandi		Alamo Breast Cancer Foundation
Stearns, Mark	Ph.D.	Drexel University College of Medicine
Stern, Robert	M.D.	University of California, San Francisco
Stratton, M. Suzanne	Ph.D.	University of Arizona
Strohm Gunter, Meredith		University of Virginia Cancer Center
Strongin, Alex	Ph.D.	The Burnham Institute
Styblo, Toncred	M.D.	Emory University
Sukumar, Saraswati	Ph.D.	Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University

Sullivan, Holly		Evergreen Healthcare
Sun, LuZhe	Ph.D.	University of Texas Health Science Center
Sun, Yin	Ph.D.	University of Rochester
Sun, Zijie	Ph.D.	Stanford University School of Medicine
Sundaram, Sujatha	Ph.D.	Dartmouth Medical School
Swanson, Hollie	PhD	University of Kentucky
Swanson, Steven	Ph.D.	University of Illinois at Chicago
Swartz, Harold	M.D., Ph.D.	Dartmouth Medical School
Sweeney, Colleen	Ph.D.	University of California, Davis Medical Center
Swisshelm, Karen	Ph.D.	University of Washington-Seattle
Sylvester, Diane	Ph.D.	Mitretek Systems
Taisch, Judy		Alamo Breast Cancer Foundation
Talmadge, James	Ph.D.	University of Nebraska Medical Center
Taneja, Reshma	Ph.D.	Mount Sinai School of Medicine
Tang, Careen	Ph.D.	Lombardi Cancer Center, Georgetown University Medical Center
Tannous, Chrisina		Y-ME National Breast Cancer Org.
Tash, Galina		Wisconsin Breast Cancer Coalition
Taylor, Ann		Advanced Breast Cancer Support Group
Telang, Nityanand	Ph.D.	Strang Cancer Prevention Center
Tello, Richard	M.D., Ph.D.	Boston Medical Center
Templeton, Nancy	Ph.D.	Baylor College of Medicine
Terreros, Daniel	M.D., Ph.D.	Texas Tech University
Tervalon, Adrienne		Louisiana Breast Cancer Task Force
Thiagalingam, Sam	Ph.D.	Boston University, School of Medicine
Thomas, Albert	Ph.D.	University of California, Los Angeles, School of Medicine
Thomas, Kelwyn	Ph.D.	Morehouse School of Medicine
Thomas, Patricia		Patricia Thomas Science & Medical Communications
Thomas, Peter	Ph.D.	Boston University School of Medicine

Thompson, E. Aubrey	Ph.D.	Mayo Clinic
Thompson, Linda	Ph.D.	Oklahoma Medical Research Foundation
Thompson, Patricia	Ph.D.	University of Arizona
Thorburn, Andrew	Ph.D.	University of Colorado Health Sciences Center
Threadgill, David	Ph.D.	University of North Carolina
Tice, Patricia		After Breast Cancer Support Group
Tiwari, Raj	Ph.D.	New York Medical College
Tonetti, Debra	Ph.D.	University of Illinois at Chicago
Tornai, Martin	Ph.D.	Duke University Medical Center
Townsend, Alan	Ph.D.	Wake Forest University School of Medicine
Turley, Eva	Ph.D.	London Regional Cancer Centre
Tuszynski, George	Ph.D.	Temple University
Uchio, Edward	M.D.	Yale University School of Medicine
Umbreit, Jay	M.D., Ph.D.	Emory University, Winship Cancer Institute
Valdez, Benigno	Ph.D.	Baylor College of Medicine
Van Den Berg, Carla	Pharm.D.	University of Colorado, School of Pharmacy
van Golen, Kenneth	Ph.D.	University of Michigan
Vannier, Michael	M.D.	University of Chicago
Velicer, Wayne	Ph.D.	University of Rhode Island, Cancer Prevention Research Center
Vertino, Paula	Ph.D.	Emory University, Winship Cancer Institute
Vetter, John	Ph.D.	University of Wisconsin
Villegas, Carmen		Central Valley Affiliate, The Susan G. Komen Breast Cancer Foundation
Vuori, Kristiina	M.D., Ph.D.	The Burnham Institute
Waldman, Nadine		Linda Creed Breast Cancer Foundation
Walker, Eleanor	M.D.	Henry Ford Health System
Walker, Larry	Ph.D.	University of Mississippi
Walters, Curla	Ph.D.	Howard University
Walters, Kathryn		Community Breast Health Project

Walton, Clara		Bosom Buddies Breast Cancer Support Group of Georgia, Inc.
Waltz, Susan	Ph.D.	University of Cincinnati College of Medicine
Wang, Sheng	Ph.D.	Boston University School of Medicine, Cancer Research Center
Wang, Xiao Hui	M.D., Ph.D.	University of Pittsburgh
Waring, Patricia		BLOOMERS
Watkins Bruner, Deborah	Ph.D.	Fox Chase Cancer Center
Watson, Cheryl	Ph.D.	University of Texas Medical Branch
Watson, Peter		University of Manitoba
Wattenberg, Elizabeth	Ph.D.	University of Minnesota School of Public Health
Weatherman, Ross	Ph.D.	Purdue University
Weaver, Valerie	Ph.D.	University of Pennsylvania
Wei, Wei-Zen	Ph.D.	Wayne State University, Karmanos Cancer Institute
Weigel, Nancy	Ph.D.	Baylor College of Medicine
Weintraub, Steven	M.D.	Washington University School of Medicine
Weissman, Bernard	Ph.D.	University of North Carolina at Chapel Hill, Lineberger Comprehensive Cancer Center
Wells-Di Gregorio, Sharla	Ph.D.	Denison University
Welsh, JoEllen	Ph.D.	University of Notre Dame
Weng, David	M.D., Ph.D.	Cleveland Clinic Foundation
Wheaton, Cheryl		Iowa Breast Cancer Education
Wheelock, Margaret	Ph.D.	University of Nebraska Medical Center, Eppley Cancer Center
Whitfield-Roper, Jocelyn		Sisters Network Dayton
Whiting, Bruce	Ph.D.	Washington University School of Medicine
Wieder, Robert	M.D., Ph.D.	New Jersey Medical School, University of Medicine and Dentistry of New Jersey
Wiersma, Dorothy		Grand Rapids Coalition for Breast Health
Wiest, Jonathan	Ph.D.	Center for Cancer Research, National Cancer Institute
Wiley, Elizabeth	M.D.	Northwestern University Feinberg School of Medicine
Williams, Sara		Coda, Inc.
Wimalasena, Jay	Ph.D.	University of Tennessee Medical Center Knoxville

Windle, Jolene	Ph.D.	Massey Cancer Center, Virginia Commonwealth University
Wolff, Teresa		Breast Cancer Alliance of Greater Cincinnati
Wolgemuth, Debra	Ph.D.	Columbia University Medical Center
Woloschak, Gayle	Ph.D.	Northwestern University, Feinberg School of Medicine
Worsham, Maria	Ph.D.	Henry Ford Health System
Xiao, Zhi-Xiong (Jim)	Ph.D.	Boston University School of Medicine
Xie, Keping	M.D., Ph.D.	University of Texas M.D. Anderson Cancer Center
Xu, Liang	M.D., Ph.D.	University of Michigan Medical School
Yang, Lily	M.D., Ph.D.	Emory University School of Medicine
Yao, Yin	Ph.D.	John Hopkins School of Public Health
Yee, Amy	Ph.D.	Tufts University School of Medicine
Yee, Douglas	M.D.	University of Minnesota Cancer Center
Yee, Lisa	M.D.	The Ohio State University
Yeh, Shuyuan	Ph.D.	University of Rochester
Yen, Andrew	Ph.D.	Cornell University
Zebovitz, Eugene	Ph.D.	Scientific Review Administrator
Zhang, Jian-Ting	Ph.D.	Indiana University School of Medicine
Zhang, Ruiwen	M.D., Ph.D.	University of Alabama, Birmingham
Zhao, Wei	Ph.D.	State University of New York at Stony Brook
Zheng, Wei	M.D., Ph.D.	Vanderbilt University Medical Center
Zhou, Wei	Ph. D.	Emory University
Zhu, Kangmin	M.D., Ph.D.	United States Military Cancer Institute
Zhu, Liang	M.D., Ph.D.	Albert Einstein College of Medicine
Zimmer, Stephen	Ph.D.	University of Kentucky, Markey Cancer Center

**Fiscal Year 2004 Breast Cancer Research Program
Integration Panel (IP) Members**

IP Members	Degree	Institution/Affiliation
Barker, Anna D.	Ph.D.	National Cancer Institute
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Ferrari, Mauro	Ph.D.	The Ohio State University
Hinestrosa, M. Carolina		Nueva Vida
Lyerly, H. Kim	M.D.	Duke Comprehensive Cancer Center
Lythcott, Ngina	Dr.P.H.	National Black Women's Health Project/Mailman School of Public Health, Columbia University
Pasqualini, Renata	Ph.D	University of Texas M.D. Anderson Cancer Center
Plewes, Don	Ph.D.	University of Toronto Sunnybrook & Women's College Health Sciences Centre
Redd, William H.	Ph.D.	Mount Sinai Medical Center
Rosso, Rosemary		Greater Baltimore-Washington Breast Cancer Group
Shak, Steven	M.D.	Genomic Health, Inc.
Steeg, Patricia S.	Ph.D.	National Cancer Institute
Visco, Frances M.		National Breast Cancer Coalition

**Fiscal Year 2004 Breast Cancer Research Program
Ad Hoc Members**

Ad Hoc Reviewers	Degree	Institution/Affiliation
Ambrosone, Christine	Ph.D.	Roswell Park Cancer Institute
Anderson, Lois		Heartland Hospice
Bernstein, Leslie	Ph.D.	University of Southern California
Branch, Vernal		Y-Me National Breast Cancer Organization
Brawley, Ottis	M.D.	Emory University
Brunswick, Christine		National Breast Cancer Coalition
Canin, Beverly		Breast Cancer Options
Cavalieri, Ercole	D.Sc.	University of Nebraska Medical Center
Chambers, Ann	Ph.D.	London Health Sciences Center
Colvin, O. Michael	M.D.	Duke University Medical Center
Evan, Gerard	Ph.D.	University of California at San Francisco
Evers, Kathryn	M.D.	Fox Chase Cancer Center
Fugh-Berman, Adriane	M.D.	Georgetown University
Gralow, Julie	M.D.	University of Washington
Green, Geoffrey	Ph.D.	National Cancer Institute
Haffty, Bruce	M.D.	Yale University
Hartmann, Lynn	M.D.	Mayo Clinic
Haugen, Patricia		National Breast Cancer Coalition
Horwitz, Kathryn	Ph.D.	University of Colorado
Hudis, Clifford	M.D.	Memorial Sloan-Kettering Cancer Center
Lachman, Lawrence	Ph.D.	University of Texas M.D. Anderson Cancer Center
Lindahl, Lasse	Ph.D.	University of Maryland
Medina, Daniel	Ph.D.	Baylor College of Medicine
Miller, Kathy Durham	M.D.	Indiana University Medical Center
Morre, D. James	Ph.D.	Purdue University
Morse, Michael	M.D.	Duke University Medical Center
Nelson, Edward	M.D.	University of California, Irvine
Niles, Richard	Ph.D.	Marshall University
Noss, Karin		Y-Me National Capital Area
Press, Michael	M.D., Ph.D.	University of Southern California
Robson, Mark	M.D.	Memorial Sloan-Kettering Cancer Center

Ad Hoc Reviewers	Degree	Institution/Affiliation
Shields, Peter	M.D.	Georgetown University
Tew, Kenneth	Ph.D.	Medical University of South Carolina
Tornai, Martin	Ph.D.	Duke University Medical Center
Tripathy, Debasish	M.D.	University of Texas Southwestern Medical Center at Dallas
Vonderhaar, Barbara	Ph.D.	National Cancer Institute
Wakefield, Lalage	Ph.D.	National Cancer Institute
Walsh, Sandy		National Breast Cancer Coalition
Welch, Danny	Ph.D.	University of Alabama at Birmingham
Winer, Eric	M.D.	Dana-Farber Cancer Institute

Glossary of Terms

Breast Cancer Center of Excellence Award: The intent of the Breast Cancer Center of Excellence Award is to accelerate the solution of a major overarching problem in breast cancer research. A Breast Cancer Center of Excellence proposal must address a single, unifying question critical to the prevention, detection, diagnosis, or treatment of breast cancer through a synergistic, multidisciplinary research program. Breast cancer consumer/survivor groups must be active participants at all levels in these multidisciplinary efforts.

Center of Excellence Pilot Award: The intent of the Center of Excellence Pilot Award is to provide support for the recruitment of an integrated, synergistic, multi-institutional team of investigators who will work together to develop the preliminary infrastructure that will provide the foundation for a Breast Cancer Center of Excellence. Pivotal to this award is the identification of a single, unifying question critical to the prevention, detection, diagnosis, and/or treatment of breast cancer. Proposals for the Center of Excellence Pilot Award should include plans for the establishment of the research team, the development of tools for data management and research administration, and the resolution of intellectual property and material rights between institutions.

Concept Award: 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 yield 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

Era of Hope Scholar Award: The intent of the Era of Hope Scholar Award is to fund exceptionally talented, early-career scientists who have demonstrated that they are the “best and brightest” in their field(s) through extraordinary creativity, vision, and productivity, and who have shown a strong potential for leadership in the breast cancer research community as well as a vision for the eradication of breast cancer. These awards provide sufficient funding to allow these emerging innovators to implement their vision and assume leadership roles in the breast cancer research community. Award recipients are expected to successfully challenge the status quo through creative, high-risk research that may ultimately lead to the eradication of breast cancer. Because of the unique nature of this award, the review process is less focused on the proposed project, though that is a consideration, and emphasizes instead the nominee’s record of creative and original accomplishments, potential for leadership in the breast cancer research community, the environment in which the nominee works and its potential to facilitate the

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).

nominee's development as a leader and innovator, and the nominee's vision for the eradication of breast cancer. Experience in breast cancer research is not required; however, the application must focus on breast cancer research and the applicant must commit a minimum of 50% of his or her full-time professional effort to breast cancer research during the tenure of this award. Applicants must be nominated to be considered for this award mechanism. Self-nominations are accepted.

Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Partnership Training Award: The intent of the HBCU/MI Partnership Training Award is to provide research training and experience at an institutional level with the goal of supporting collaborations between multiple investigators at an applicant HBCU/MI and a collaborating institution with established investigators in breast cancer research. This award supports HBCU/MI faculty researchers who have doctoral degrees but minimal or no resources to conduct research. HBCU/MI Partnership Training Awards provide these investigators the opportunity to collaborate with and be mentored by well-established breast cancer researchers and thus gain the experience and knowledge necessary to develop a successful breast cancer research program at the applicant HBCU/MI.

Idea Award: The intent of the Idea Award is to encourage innovative approaches to breast cancer research. As such, innovation receives 50% of the emphasis in the first tier of review. Proposals submitted to the Idea Award mechanism should represent new paradigms in the study of breast cancer. Alternatively, they may consider an existing problem from a new perspective. However, such proposals carry a greater burden to show innovation. The proposed studies may be untested but should have a high probability of revealing new avenues of investigation. Although this research is inherently risky in nature, the research plan must demonstrate solid scientific judgment and rationale.

Innovator Award: The intent of the Innovator Award is to identify and fund visionary individuals who have a history of creative, innovative work and leadership in any field, including (but not limited to) breast cancer. This award provides these individuals with the funding and freedom to pursue their most novel, visionary, high-risk ideas that could ultimately lead to the eradication of breast cancer. Since the intent of the Innovator Award is to recognize creative and innovative individuals rather than projects, the central feature of this award is the innovative contribution(s) that the recipient can make to the eradication of breast cancer. The primary criteria for making these awards are the applicant's past record of creativity, the promise for continued innovation in future work, and an indication of how this award will create and further innovate strategies to solve the breast cancer problem. Experience in breast cancer research is not required; however, the application must focus on breast cancer research and the applicant must commit a minimum of 50% of his or her full-time professional effort to breast cancer research during the tenure of this award. Applicants must be nominated to be considered for this award mechanism. Self-nominations are accepted.

Multidisciplinary Postdoctoral Award: The intent of the Multidisciplinary Postdoctoral Award is to enable exceptionally talented recent medical or other doctoral degree graduates to obtain significant experience in at least two major disciplines, so that they may pursue an independent career at the forefront of breast cancer research. These proposals should emphasize a multidisciplinary training program in which at least two major disciplines are integrated into a

common research and training environment. For the purposes of this award, major disciplines include, but are not limited to, laboratory research, clinical research, social/behavioral science research, public health research, engineering, physics, and/or mathematics. Eligible applicants should have been in the research setting in which this research is to be performed for no more than 2 years at the time of submission and should have a total of fewer than 5 years of postdoctoral research experience (exclusive of clinical residency or fellowship training).

Predoctoral Traineeship Award: The intent of the Predoctoral Traineeship Award is to support promising graduate students who are studying breast cancer under the guidance of a designated mentor. The primary aim of the Predoctoral Traineeship Award is to prepare individuals for careers in breast cancer research. Individuals enrolled in an M.D./Ph.D. program are encouraged to apply.