



Department of Defense US Army Medical Research and Materiel Command

Fiscal Year 2001 Breast Cancer Research Program Awards Book

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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 2001 (FY01) Breast Cancer Research Program (BCRP). Award negotiations were completed on September 30, 2002. The awards listed in this document were selected by a competitive two-tiered review process. Funding decisions were based upon scientific excellence evaluated in the first tier of review, followed by programmatic relevance judged 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 FY01 specified \$175 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 380 awards was made.

The Training/Recruitment Award category includes Undergraduate Summer Training Program, Predoctoral Traineeship, Postdoctoral Traineeship, Career Development, and HBCU/MI¹ Partnership Training Awards. Each Undergraduate Award will support the establishment of a summer breast cancer training program to provide meaningful research experiences for 2-8 undergraduate students. Predoctoral Traineeship Awards are intended to support promising graduate students studying breast cancer under the guidance of a designated mentor. Postdoctoral Traineeship Awards should enable recent medical and other doctoral degree graduates to obtain the necessary experience to pursue a career in breast cancer research. Career Development Awards are designed to encourage (1) scientists or clinicians who have postdoctoral and/or fellowship training, but are not yet established investigators, to pursue a breast cancer-related research career, as well as (2) established scientists or research clinicians who are currently working in areas other than breast cancer to shift their focus to 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 a collaborating institution with established investigators in breast cancer research for the purpose of developing a training program to increase the number of HBCU/MI investigators focused on breast cancer research.

The Research award category consists of Idea and Clinical Bridge Awards. 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. Clinical Bridge Awards are intended to support critical, hypothesis-driven, preclinical or post-clinical research projects building toward clinical applications shortly after the completion of the funding period.

¹ Historically Black Colleges and Universities/Minority Institutions

The Infrastructure Award category consists of Clinical Translational Research (CTR), Collaborative-CTR (C-CTR), and Breast Cancer Center of Excellence Awards. CTR Awards are intended to support projects in the areas of target-based chemoprevention and therapeutics that apply promising, well-founded laboratory or other preclinical research to the clinical care of patients with, or populations at risk for breast cancer. The intent of C-CTR Awards is to foster the development of highly effective collaborative and consortia models to evaluate promising agents and technologies in well-designed clinical trials that use the combined resources of academia, the private sector, and community-based oncology clinics. The Breast Cancer Center of Excellence Awards 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 of 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	Institution	Proposal Title	Award Amount
BC012005	Bissell	Mina	Lawrence Berkeley National Laboratory	Breast Cancer in Context: New Tools and Paradigms for the Millennium	\$2,972,038
BC012052	Diebold	Gerald	Brown University	Electroacoustic Tissue Imaging	\$1,895,894
BC012002	Hannon	Gregory	Cold Spring Harbor Laboratory	Scanning the Human Genome for Novel Therapeutic Targets for Breast Cancer	\$3,000,000
BC012029	Ruoslahti	Erkki	Burnham Institute	Targeting Breast Cancer Vasculature	\$2,996,956
BC012016	Yuan	Junying	Harvard University, Boston	How Can We Reduce the Rate of Breast Cancer by 2,000-Fold?	\$2,958,677

Breast Cancer Center of Excellence Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC013004	Brown	Myles	Dana-Farber Cancer Institute	Prevention and Treatment of ER-Negative Breast Cancer	\$7,000,912
BC013015	Hartmann	Lynn	Mayo Clinic and Foundation, Rochester	Benign Breast Disease: Toward Molecular Prediction of Breast Cancer Risk	\$5,789,420
BC013020	Hortobagyi	Gabriel	M.D. Anderson Cancer Center	Development of Targeted Therapy Strategies for Breast Cancer	\$5,972,963
BC013005	Sloane	Bonnie	Wayne State University	Validation of Proteases as Therapeutic Targets in Breast Cancer: Functional Imaging of Protease Expression, Activity, and Inhibition	\$5,750,906
BC013002	Urban	Nicole	Fred Hutchinson Cancer Research Center	Center for the Evaluation of Biomarkers for the Early Detection of Breast Cancer	\$7,769,685

Clinical Bridge Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC010877	Dernell	William	Colorado State University	Evaluation of Intracavitary Chemotherapy Delivery for Treatment of Mammary Carcinoma	\$315,920
BC010478	Fedarko	Neal	Johns Hopkins University	Bone Sialoproteins and Breast Cancer Detection	\$490,502
BC011245	Kleer	Celina	Michigan, University of	Detection of Metastatic Potential in Breast Cancer by RhoC-GTPase and WISP3 Proteins	\$451,531
BC011204	McPherson	Robert	Virginia, University of	Studies of a Ras Antagonist in Breast Cancer	\$295,951
BC010663	Marks	Lawrence	Duke University Medical Center	Treatment-Related Cardiac Toxicity in Patients Treated for Breast Cancer	\$405,281
BC010646	Reilly	Raymond	University Health Network, Toronto	Pre-Clinical Lead-Up Studies in Support of an IND Application for ¹¹¹ In-hEGF, a New Radiopharmaceutical for Treatment of Advanced Breast Cancer	\$199,595
BC011255	Richer	Jennifer	Colorado Health Sciences Center, University of	Molecular Determinants of Response to Endocrine Therapy for Breast Cancer	\$437,499
BC010287	Ross	Gordon	Louisville, University of	Development of an Oral Barley (Beta)-Glucan Adjuvant That Augments the Tumoricidal Activity of Antibodies or Vaccines Used for the Immunotherapy of Breast Cancer	\$432,000
BC011167	Symmans	William	M.D. Anderson Cancer Center, University of Texas	Integration of Pathologic Findings with Clinical-Radiologic Tumor Measurements to Quantify Response to Neoadjuvant Chemotherapy	\$418,292
BC010535	Tiedge	Henri	New York, State University of, Downstate Medical Center	Molecular Diagnosis of Breast Cancer: Expression of BC200 RNA	\$459,000

BC010625

Wong	Wai-Hoi	M.D. Anderson Cancer Center, University of Texas	A High Resolution Clinical PET with Breast and Whole Body Transfigurations	\$449,958
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Clinical Translational Research Award

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC014017	Skinner	Kristin	Southern California, University of	Evaluation of DNA Methylation as a Target for Intraductal Therapy for Ductal Carcinoma in Situ of the Breast	\$1,705,289

Idea Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC010334	Abraham	Jame	West Virginia University	Randomized Trial of Neuroprotective Effects of Erythropoietin in Patients Receiving Adjuvant Chemotherapy for Breast Cancer: Positron Emission Tomography and Neuropsychological Study	\$273,755
BC021588	Abraham	Robert	Burnham Institute	Hypoxia as a Driving Force for Genetic Instability during Breast Tumorigenesis	\$594,000
BC010043	Achilefu	Samuel	Washington University	Optical Imaging of Mammaglobin Expression in Breast Cancer	\$454,938
BC010556	Acs	Geza	Pennsylvania, University of	Role of Autocrine Erythropoietin Signaling in the Survival of Human Breast Cancer under Hypoxic Conditions	\$459,640
BC020996	Adams	Peter	Fox Chase Cancer Center	Testing Whether Defective Chromatin Assembly in S-Phase Contributes to Breast Cancer	\$504,000
BC010610	Aggarwal	Bharat	M.D. Anderson Cancer Center, University of Texas	Augmentation of Therapeutic Efficacy of Paclitaxel against Breast Cancer by Curcumin	\$450,000
BC010479	Ahsan	Habibul	Columbia University	Association between Offspring's hCG Genotype and Breast Cancer Risk in Mothers: A Novel Approach	\$470,524
BC011132	Ambrosone	Christine	Mount Sinai School of Medicine, New York	Genetic Influences on Toxicity and Prognosis in Women Treated with Breast-Conserving Surgery and Radiation Therapy	\$372,734
BC010618	Athwal	Raghibir	Temple University School of Medicine	Cloning and Characterization of a Cell Senescence Gene for Breast Cancer Cells	\$451,500

BC010806	Bae	Insoo	North Shore-Long Island Jewish Health System	Role of GIF1 (GADD45 Interacting Factor 1) in Breast Cancer	\$473,987
BC011342	Bakin	Andrei	Vanderbilt University	p38 Mitogen-Activated Protein Kinase in Metastasis Associated with Transforming Growth Factor Beta	\$448,405
BC010093	Band	Vimla	New England Medical Center, Boston	A Novel Pathway Mediating Early Neoplastic Transformation of Mammary Epithelial Cells	\$474,000
BC010227	Band	Hamid	Brigham and Women's Hospital	A Novel Biochemical Pathway of ERBB2 Down-Regulation	\$518,000
BC010861	Barcellos-Hoff	Mary Helen	Lawrence Berkeley National Laboratory	Basis of Persistent Microenvironment Perturbation in Irradiated Human Mammary Epithelial Cells	\$493,365
BC010594	Baydush	Alan	Duke University Medical Center	Improved Breast Cancer Detection Using a Novel Sub-Region Hotelling Observer Technique	\$454,090
BC011057	Beg	Amer	Columbia University	Potentiation of T Lymphocyte Responses by Modulating NF-(kappa)B Activity in Dendritic Cells	\$490,199
BC011099	Benjamin	Laura	Beth Israel Deaconess Medical Center, Boston	The Role of Bone Marrow-Derived Stem Cells on Mammary Tumor Angiogenesis, Growth, and Metastasis, and the Influence of VEGF-A and PIGF on Their Recruitment	\$510,000
BC011231	Blumberg	Bruce	California, University of, Irvine	SXR: A Target for Breast Cancer Prevention and Treatment	\$480,066
BC010240	Boackle	Robert	South Carolina, Medical University of	C1 Dereglulation on Breast Cancer Cells	\$428,975
BC011079	Bovbjerg	Dana	Mount Sinai School of Medicine, New York	Immune Surveillance, Cytokines, and Breast Cancer Risk: Genetic and Psychological Influences in African American Women	\$1,058,728

BC010787	Bremner	Theodore	Howard University	Anti-Estrogen Regulation of Macrophage Products That Influence Breast Cancer Cell Proliferation and Susceptibility to Apoptosis	\$409,531
BC010995	Buchsbaum	Donald	Alabama, University of, Birmingham	Treatment of Breast Cancer with Antibodies against DR4 and DR5 Receptors in Combination with Chemotherapy	\$430,500
BC010037	Buehring	Gertrude	California, University of, Berkeley	Bovine Leukemia Virus in Human Breast Tissue: A Risk Factor for Breast Cancer?	\$428,791
BC010983	Burow	Matthew	Tulane University	Potential Therapeutic Use of Glyceollins (I-III), Novel Anti-Estrogenic Flavonoid Phytochemicals Isolated from Soy	\$442,407
BC010713	Cai	Qiuyin	Vanderbilt University	Genetic Polymorphisms, Mitochondrial DNA Damage, and Breast Cancer Risk	\$560,144
BC010975	Cao	Xu	Alabama, University of, Birmingham	Smad 7 Induced by TGF-Beta Inhibits Estrogen Response Gene Transcription: A Potential Target for Breast Cancer Therapy	\$430,500
BC011176	Carey	Lisa	North Carolina, University of, Chapel Hill	p53 Mutation Analysis to Predict Tumor Response in Patients Undergoing Neoadjuvant Treatment for Locally Advanced Breast Cancer	\$433,289
BC010296	Carraway	Kermit	California, University of, Davis	Identification of a Functional Human Homolog of Drosophila Kek1, an Inhibitor of Breast Tumor Cell Growth	\$427,225
BC010735	Chai	Karl	Central Florida, University of	Prostasin Serine Protease as a Breast Cancer Invasion Marker and a Metastasis Suppressor	\$334,031

BC011303	Chambers	Setsuko	Yale University	Novel Regulation by Glucocorticoids of C-FMS Proto-Oncogene RNA Protein Binding and Breast Cancer Invasion	\$490,476
BC010310	Chaudhary	Preet	Texas Southwestern Medical Center, University of, Dallas	The Role of Ectodysplasin A (EDA) and Its Receptors in the Pathogenesis of Breast Cancer	\$312,000
BC010794	Chaudhuri	Asish	Texas Health Science Center, University of, San Antonio	Beta III Tubulin, Disulfide Bonds, and Drug Resistance: A Novel Approach to the Treatment of Breast Cancer	\$194,413
BC010771	Chaudhuri	Tandra	Alabama, University of, Birmingham	Noninvasive Dual Modality Imaging for the Early Detection and Monitoring of Breast Cancer during Therapy	\$430,500
BC010265	Chen	Jin	Vanderbilt University	Role of Eph Receptor Tyrosine Kinases in Tumor Angiogenesis in Breast Cancer	\$453,084
BC010375	Chen	David	Lawrence Berkeley National Laboratory	The Functions of BRCA2 in Homologous Recombinational Repair	\$509,605
BC010875	Cheng	Shi-Yuan	Pittsburgh, University of	The Roles of VEGF in Estrogen-Dependent and Estrogen-Independent Breast Cancer Growth	\$435,376
BC010307	Chirgwin	John	Texas Health Science Center, University of, San Antonio	Tumor-Secreted Autocrine Motility Factor (AMF): Causal Role in an Animal Model of Cachexia	\$299,999
BC021456	Chodosh	Lewis	University of Pennsylvania	Mechanism of Recurrence in Neu-Induced Breast Cancer	\$473,821
BC011139	Christman	Judith	Nebraska, University of	Role of DNA Methylation in Altering Gene Expression during the Early Stages of Human Breast Cancer Progression in the MCF10AT Xenograft Model	\$440,997
BC010619	Clarke	Robert	Georgetown University	X-Box Binding Protein-1 in Breast Cancer	\$465,603

BC020783	Conklin	Douglas	Cold Spring Harbor Laboratory	Use of a Novel, Stable Gene Silencing Technology to Determine the Contribution of the Receptor Tyrosine Kinases to the Breast Cancer Phenotype	\$498,000
BC010444	Conway-Dorsey	Kathleen	North Carolina, University of, Chapel Hill	Estrogen Receptor Alterations in Benign Breast Lesions and the Risk of Subsequent Breast Cancer	\$435,716
BC011134	Cryns	Vincent	Northwestern University Medical School	Caspase Cleavage of HER2: A Novel Apoptotic Pathway in Breast Cancer	\$440,997
BC010977	Daniel	Juliet	McMaster University	The Catenin p120ctn as an Importin for the Transcription Factor Kaiso: Novel Regulators of Cell Adhesion and Tumor Progression?	\$258,792
BC010214	Dharmawardhane	Suranganie	Texas, University of, Austin	In Situ Evaluation of the Role of the Small GTPase Rac3 in Breast Cancer Metastasis	\$432,526
BC010981	Ding	Xinxin	Health Research Inc., Rensselaer, New York State Department of Health	Role of Local Cytochrome P450-Dependent Metabolism in Chemical Carcinogen-Induced DNA Adduct Formation in Mouse Mammary Gland	\$434,199
BC020512	Eagan	Sean	Hospital for Sick Children	Regulation of Mammary Gland Development and Breast Cancer by the Fringe Proteins	\$323,790
BC011357	Elledge	Stephen	Baylor College of Medicine	The Role of Chk2 in Breast Cancer	\$443,925
BC010419	Eltom	Sakina	Meharry Medical College	The Role of Dioxin Receptor in Mammary Development and Carcinogenesis	\$427,580
BC010021	Eng	Charis	Ohio State University	Genetics of Epithelial-Stromal Interactions in Hereditary Breast Cancer	\$442,500
BC011147	Faris	Gregory	Sri International	Breast Cancer Detection Using Optical Vascular Function	\$398,413

BC010746	Fleming	Karen	Johns Hopkins University, East Baltimore Campus	Energetics and Structure Prediction of the Network of Homo- and Hetero- Oligomers Formed by the Transmembrane Domains of the ErbB Receptor Family of Proteins	\$416,465
BC010002	Franco	Alessandra	La Jolla Institute for Allergy and Immunology	Glycopeptide-Based Immunotherapy for Prophylaxis and Treatment of Mammary Adenocarcinomas	\$540,000
BC011022	Frisch	Steven	Burnham Institute	Is CtBP a Redox-Sensitive Apoptosis Switch?	\$594,000
BC010605	Fujita	Donald	Calgary, University of	Use of RNA Interference (RNAi) and Other Inhibitory Methods to Block Src- Mediated Oncogenic Pathways in Breast Epithelial and Tumor Cells	\$420,000
BC010617	Fukuda	Michiko	Burnham Institute	Carbohydrate-Mediated Breast Cancer Metastasis	\$594,000
BC010292	Garcia-Sanz	Jose	Centro Nacional de Biotecologia	Generation of a RNA Profile of Breast Cancer Tumorigenesis for Genes Controlled by Transcription, Processing and Export, mRNA Stability, and Translation	\$340,320
BC010725	Geahlen	Robert	Purdue University	Characterization of Syk in Breast Carcinoma Cells	\$425,425
BC010104	Gerald	William	Memorial Sloan-Kettering Cancer Center	Gene Expression Analysis of Breast Cancer Progression	\$484,783
BC010506	Getty	David	BBN Systems and Technologies	An Evaluation of Stereoscopic Digital Mammography for Earlier Detection of Breast Cancer and Reduced Rate of Recall	\$1,160,869
BC010369	Gollahon	Lauren	Texas Tech University, Lubbock	Analysis of Breast Cell-Lineage Response Differences to Taxol Using a Novel Co-Culture System	\$423,146
BC011094	Good	Walter	Pittsburgh, University of	Automated Analysis and Display of Temporal Sequences of Mammograms	\$420,731

BC010857	Gould	Michael	Wisconsin, University of, Madison	Mechanisms Underlying the High Risk for Breast Cancer Induction in the Immature Breast	\$433,782
BC010347	Graff	Jonathan	Texas Southwestern Medical Center, University of, Dallas	Identification of Breast Cancer Markers through a Novel Signal Sequence Trap	\$454,896
BC010406	Hadjiiski	Lubomir	Michigan, University of	Computer-Aided Interval Change Analysis of Microcalcifications on Mammograms for Breast Cancer Detection	\$445,043
BC010518	Hagness	Susan	Wisconsin, University of, Madison	Space-Time Microwave Imaging for Early-Stage Breast Cancer Detection, Monitoring, and Treatment	\$424,701
BC010760	Hannon	Gregory	Cold Spring Harbor Laboratory	Searching the Epigenome for Novel Breast Cancer Tumor Suppressors	\$498,000
BC010627	Hassell	John	McMaster University	Identification and Characterization of PEA3 Ets Subfamily Target Genes in Human Mammary Epithelial Cells	\$306,060
BC010355	Hasty	Edward	Texas Health Science Center, University of, San Antonio	Development of Anti-Cancer Therapeutics That Modulate the RAD51-BRCA2 Complex	\$436,500
BC011125	Hauschka	Peter	Children's Hospital, Boston	VEGF and Bone Metastasis of Breast Cancer	\$472,821
BC010859	Higgins	Paul	Albany Medical College	Inducible Anti-Angiogenic Gene Therapy	\$472,993
BC010168	Hinshaw	Jerald	Utah, University of	Synthesis of Targeted Drugs for Treating Breast Cancer	\$336,729
BC010353	Huang	Shuang	Scripps Research Institute	Endothelial Cell-Targeted Adenoviral Vector for Suppressing Breast Malignancies	\$531,900
BC010015	Kaaks	Rudolf	International Agency for Research on Cancer	Breast Cancer Risk in Relation to Urinary Estrogen Metabolites and Their Genetic Determinants: A Study within the Dutch "DOM" Cohort	\$311,367

BC010587	Keyak	Joyce	California, University of, Irvine	Development and Evaluation of a Percutaneous Technique for Repairing Proximal Femora with Metastatic Lesions	\$444,194
BC010060	Keyomarsi	Khandan	M.D. Anderson Cancer Center, University of Texas	Cyclin E, a Powerful Predictor of Survival in Breast Cancer--A Prospective Study	\$449,928
BC010449	Khanna	Kum Kum	Queensland Institute of Medical Research	A Novel Method to Screen for Dominant Negative ATM Mutations in Familial Breast Cancer	\$296,073
BC010842	Khazaie	Khashayarsha	Dana-Farber Cancer Institute	Cancer Immunology in an Inducible Model of Breast Cancer	\$426,096
BC011333	Khosravi-Far	Roya	Beth Israel Deaconess Medical Center, Boston	Immune Escape of Breast Carcinomas through Regulation of Anti-Apoptotic Factors	\$506,290
BC010376	Killary	Ann	M.D. Anderson Cancer Center, University of Texas	Characterization of CAR-1, a Candidate Tumor Suppressor Gene in Breast Cancer	\$450,000
BC010851	King	Mary Claire	Washington, University of	A Novel Functional Screen for New Breast Cancer Genes	\$391,100
BC010557	Kiyokawa	Hiroaki	Illinois, University of, Chicago	Role of CDC25A in Breast Cancer Development	\$467,610
BC020206	Kleiman	Frida	Columbia University	A Coordinated Response to DNA Damage by Transcription, RNA Processing, and DNA Repair Factors	\$477,799
BC011187	Knowles	David	Lawrence Berkeley National Laboratory	Novel Image Analysis to Link Sub-Nuclear Distribution of Proteins with Cell Phenotype in Mammary Cancer	\$530,221
BC010773	Kotty	Patrick	University of Pittsburgh	Breast Cancer Prevention by Inducing Apoptosis in DCIS Using Breast Ductal Lavage	\$435,380
BC010883	Kuhajda	Francis	Johns Hopkins University, East Baltimore Campus	Inhibition of Fatty Acid Synthase (FAS): A New Drug Target for Breast Cancer Chemoprevention	\$490,262
BC010976	Ladias	John	Beth Israel Deaconess Medical Center, Boston	Structural Basis for BRCA1 Function in Breast Cancer	\$496,995

BC011048	Lau	Lester	Illinois, University of, Chicago	Angiogenesis and Stromal Interaction in Breast Cancer	\$456,045
BC011335	Lee	Adrian	Baylor College of Medicine	A Unique Breast Cancer Cell Model for Studying Reported Functions of Membrane-Localized Estrogen Receptor (alpha)	\$450,656
BC010074	Liebermann	Dan	Temple University School of Medicine	GADD45 Family of Genes in Breast Cancer	\$451,500
BC010590	Lin	Chen-Yong	Georgetown University	Matriptase Activation in Breast Cancer Progression	\$465,600
BC010046	Liu	Jingwen	Palo Alto VA Health Care System	Elucidation of the Molecular Mechanisms for Aberrant Expression of Breast Cancer Specific Gene 1 in Invasive and Metastatic Breast Carcinomas	\$300,000
BC010742	Liu	Xuedong	Colorado, University of, Boulder	Identification of the Downstream Promoter Targets of Smad Tumor Suppressors in Human Breast Cancer Cells	\$436,864
BC011141	MacDonald	Carolyn	New York, State University of, Albany	Practical Monochromatic Breast Imaging Using Polycapillary Optics	\$356,433
BC010656	Maidment	Andrew	Thomas Jefferson University	X-ray Polarization Imaging	\$430,650
BC010813	Maley	Frank	Health Research Inc., Rensselaer, New York State Department of Health	Targeted Proteolysis of Thymidylate Synthase as a Strategy for Improving Sensitivity to Inhibitors	\$430,765
BC011378	Marassi	Francesca	Burnham Institute	Structural Basis for Bcl2-Regulated Mitochondrion-Dependent Apoptosis	\$594,000
BC020462	Marmorstein	Ronen	Wistar Institute	Structure-Based Design of CDK4-Specific Inhibitors	\$464,937
BC010756	Merkle	Carrie	Arizona, University of, Tucson	Studies on Breast Cancer Cell Interactions with Aged Endothelial Cells in Culture and Rat Models	\$454,156

BC010476	Miller	Suzanne	Fox Chase Cancer Center	Cognitive-Affective Predictors of the Uptake of, and Sustained Adherence to, Lymphedema Symptom Minimization Practices in Breast Cancer Survivors	\$451,233
BC010585	Modugno	Francesmary	Pittsburgh, University of	Prospective Evaluation of Hormone Replacement Therapy, Body Mass Index, Estrogen Metabolism, and Breast Cancer Risk	\$339,416
BC010887	Moser	Amy	Wisconsin, University of, Madison	Identification of Genes Controlling Mammary Tumor Development and Progression	\$436,500
BC010660	Mueller	Susette	Georgetown University	Influence of Syk Tyrosine Kinase upon the Accumulation of Genetic Abnormalities	\$465,062
BC011313	Muftuler	Tugan	California, University of, Irvine	Electrical Impedance Tomography of Breast Cancer	\$299,881
BC010141	Murphy	Leigh	Manitoba, University of	A Role for Estrogen Receptor-(Beta) in the Regulation of the Mitotic Apparatus	\$394,761
BC010480	Murphy	Maureen	Fox Chase Cancer Center	Regulation of IAP (Inhibitor of Apoptosis) Gene Expression by the p53 Tumor Suppressor Protein	\$493,476
BC010839	Nephew	Kenneth	Indiana University, Indianapolis	Role of the Neddylation Enzyme Uba3, a New Estrogen Receptor Co-Repressor, in Breast Cancer	\$436,272
BC010673	Oh	Youngman	Oregon Health Sciences University	IGFBP-3 Receptor: A New Class of Cell-Death Receptor in Breast Cancer	\$453,000
BC011268	Onyuksel	Hayat	Illinois, University of, Chicago	Tc-99m Labeled and VIP Receptor Targeted Liposomes for Effective Imaging of Breast Cancer	\$467,502
BC011345	Osborne	Charles	Baylor College of Medicine	The Signaling Intermediate and Estrogen Receptor Co-Repressor FKHR in the Pathogenesis of Breast Cancer	\$423,165

BC010017	Ozcelik	Hilmi	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	Cloning and Characterization of Expanded CAG-Repeat Containing Sequence(s): Identification of Candidate Breast Cancer Predisposition Gene(s)	\$129,350
BC010785	Pandita	Tej	Washington University	Chromatin Structure and Breast Cancer Radiosensitivity	\$459,000
BC010261	Pasquale	Elena	Burnham Institute	A New Transgenic Approach for Targeting Mammary Tumor Vasculature	\$594,000
BC010644	Pizer	Ellen	Johns Hopkins University, East Baltimore Campus	Fatty Acid Synthase Inhibitor Cytotoxicity: Depletion of the Coenzyme A Pool	\$490,500
BC010650	Poola	Indra	Howard University	ER(beta) Isoforms(s) as Target(s) for Adjuvant Therapy for ER(alpha)- Negative Patients: Changes in ER(beta) Isoforms in ER(alpha)-Negative Tumors Compared to Matched Normal Tissues of African American Patients	\$453,000
BC019043	Porter	Weston	Texas A&M University	Role of the AhR in Mammary Development and Breast Cancer	\$354,638
BC010791	Porter	Peggy	Fred Hutchinson Cancer Research Center	Genome-Wide Examination of Allelic Loss in Lobular and Ductal Breast Cancer	\$514,905
BC011103	Price	Janet	M.D. Anderson Cancer Center, University of Texas	Tumor-Host Interactions in Breast Cancer Bone Metastasis	\$423,208
BC010215	Rabinowich	Hannah	Pittsburgh, University of	Mechanisms of Resistance to Granzyme B-Mediated Apoptosis in Breast Cancer	\$443,676
BC011137	Rauscher	Frank	Wistar Institute	A Novel Strategy for Controlling the Metastatic Phenotype: Targeting the SNAG Repression Domain in the SNAIL Zinc-Finger Protein	\$496,117
BC010778	Reddy	Premkumar	Temple University School of Medicine	Novel COX-2 Inhibitor for Breast Cancer Therapy	\$451,500

BC011222	Rimm	David	Yale University	Spectral Analysis of Breast Cancer on Tissue Microarrays: Seeing beyond Morphology	\$474,395
BC010025	Rosenblum	Michael	M.D. Anderson Cancer Center, University of Texas	Evaluation of Novel Agents That Target Neovasculature of Breast Tumors	\$469,908
BC010052	Rosenstein	Barry	Mount Sinai School of Medicine, New York	ATM Mutations and the Development of Severe Radiation-Induced Morbidity Following Radiotherapy for Breast Cancer	\$504,648
BC010352	Rosenstein	Barry	Mount Sinai School of Medicine, New York	Screening for ATM Mutations in an African American Population to Identify a Predictor of Breast Cancer Susceptibility	\$504,648
BC010710	Rosner	William	St. Luke's-Roosevelt Hospital Center	Autocrine and Paracrine Control of Breast Cancer Growth by Sex Hormone Binding Globulin	\$454,181
BC010602	Rossing	Mary Anne	Fred Hutchinson Cancer Research Center	Modifiable Risk Factors for Lymphedema in Breast Cancer Survivors	\$1,081,239
BC011240	Rowan	Brian	Ohio, Medical College of	The Role of Novel Phosphorylation Sites in Estrogen Receptor Alpha and the Co-Repressor N-CoR in the Antagonist and Agonist Action of Tamoxifen	\$428,742
BC010858	Russo	Jose	Fox Chase Cancer Center	Cloning of a New Gene(s) in Chromosome 17p3.2-p13.1 That Controls Apoptosis	\$501,218
BC010400	Sacchi	Nicoletta	Johns Hopkins University, East Baltimore Campus	Modulation of Breast Tumor Cell Response to Retinoids by Histone Deacetylase Inhibitors	\$490,500
BC010195	Sacks	David	Brigham and Women's Hospital	The Role of Ca ²⁺ and Calmodulin in Estrogen Receptor Function and Tamoxifen Resistance	\$518,750
BC010083	Safavy	Ahmad	Alabama, University of, Birmingham	Paclitaxel-Monoclonal Antibody Conjugates for Targeted Chemotherapy of Breast Cancer	\$430,430

BC010491	Sauter	Edward	Thomas Jefferson University	Proteome Analysis in Nipple Aspirate Fluid	\$411,104
BC010790	Schnitzer	Jan	Sidney Kimmel Cancer Center	Antibody Targeting of Caveolae in Breast Tumors	\$595,200
BC011186	Schwartz	Gary	Memorial Sloan-Kettering Cancer Center	Phase I and II Trial of Huanglian, a Novel Botanical against Breast Cancer That Enhances Taxol Activity	\$486,611
BC010919	Seewaldt	Victoria	Duke University Medical Center	CBP and Extracellular Matrix-Induced Apoptosis in p53(-) HMECs: A Model of Early Mammary Carcinogenesis	\$462,000
BC011030	Shaw	Barbara	Duke University Medical Center	Using Combinatorial Borane RNA Chemistry to Create Novel Aptamers to ErbB2	\$392,985
BC011305	Shekhar	Malathy	Wayne State University	Breast Stromal-Epithelial Interactions and Hormone Response	\$428,397
BC010630	Shiekhattar	Ramin	Wistar Institute	Deciphering the Molecular Mechanism of Breast Cancer	\$447,642
BC011118	Shu	Xiao Ou	Vanderbilt University	A Cohort Study of Ginseng, Soy, and Other Complementary Medicine Use and Breast Cancer Survival	\$856,514
BC011232	Silver	Pamela	Dana-Farber Cancer Institute	Genome-Wide Nucleic Acid/Protein Interactions in Breast Cancer	\$513,375
BC010820	Sonnenschein	Carlos	Tufts University School of Medicine	Do Perturbed Epithelial-Mesenchymal Interactions Drive Early Stages of Carcinogenesis?	\$463,328
BC010843	Srivastava	Meera	Henry M. Jackson Foundation	Novel Role of ANX7 in Breast Cancer Progression	\$319,891
BC010827	Stein	Paul	Pennsylvania, University of	Function of a Novel Signal Transduction Adapter Molecule in Mammary Epithelia	\$317,000
BC010727	Sturgeon	Susan	Massachusetts, University of, Amherst	Intervention Study of Flaxseed in Postmenopausal Women: Effects on Hormonal Biomarkers of Breast Cancer Risk	\$406,815

BC010180	Tari	Ana	M.D. Anderson Cancer Center, University of Texas	Wilms' Tumor 1 (WT1) as a Novel Molecular Target in Breast Cancer	\$408,561
BC010641	Terry	Mary Beth	Columbia University	Early Life Factors and Breast Cancer Risk	\$490,500
BC010333	Thorburn	Andrew	Wake Forest University School of Medicine	A Novel Apoptosis Pathway That Is Defective in Early Breast Cancer	\$432,145
BC011113	Trent	John	Louisville, University of	Mechanisms for Blocking Breast Cancer Metastasis: CXCR4, a Novel Target	\$431,744
BC010582	Tutwiler	T. Douglas	Pennsylvania State University	High-Resolution Breast Tissue Mapping by Adaptive Pulse-Echo Ultrasound	\$437,852
BC010517	Van Deursen	Jan	Mayo Clinic and Foundation, Rochester	The Role of CBP/p300 in Breast Cancer Development	\$445,657
BC010192	Wallrath	Lori	Iowa, University of	Molecular Mechanisms of Breast Cancer Metastasis	\$437,021
BC011071	Wang	Y. Alan	Wayne State University	The Function of ATM in Mammary Gland Development and Tumorigenesis	\$447,000
BC011101	Wang	Lu-Hai	Mount Sinai School of Medicine, New York	Exploring the Molecular Targets for Breast Cancer Therapy	\$508,500
BC011270	Weber	Georg	New England Medical Center, Boston	A Molecular Connection between Breast Cancer Proliferation and Metastasis Mediated by Akt Kinase	\$485,833
BC010808	Weil	Michael	M.D. Anderson Cancer Center, University of Texas	Prevention of Radiation-Induced Breast Cancer by Amifostine	\$477,022
BC010286	Welch	Danny	Pennsylvania State University, Milton S. Hershey Medical Center	Metastasis Genes in Breast Cancer Metastasis to Bone	\$421,501
BC010432	Wellstein	Anton	Georgetown University	Discovery of Novel Metastasis Genes in Breast Cancer	\$465,600
BC011237	Westbrook	Carol	Illinois, University of, Chicago	Novel Targets for Diagnosis and Treatment of Breast Cancer Identified by Genomic Analysis	\$467,610

BC011197	Worsham	Maria	Henry Ford Health System	Molecular Differentiation of Risk for Disease Progression: Delineating Stage-Specific Therapeutic Targets for Disease Management in Breast Cancer	\$433,216
BC011119	Xiang	Rong	Scripps Research Institute	Blocking Blood Supply to Breast Carcinoma with a DNA Vaccine Encoding VEGF Receptor-2	\$531,900
BC010873	Xiao	Hua	Nebraska, University of	Regulation of Estrogen-Responsive Gene Expression and Tumor Suppression by Transcriptional Cofactors	\$441,500
BC011281	Yaswen	Paul	Lawrence Berkeley National Laboratory	Cooperative Interactions during Human Mammary Epithelial Cell Immortalization	\$499,948
BC010335	Yeh	Shuyuan	Rochester, University of	Targeted Disruption of Androgen Receptor in Breast Cancer	\$472,500
BC011310	Yu	Dihua	M.D. Anderson Cancer Center, University of Texas	PTEN and Herceptin Responsiveness in Breast Cancers	\$448,000
BC010245	Zhang	Ming	Baylor College of Medicine	Identifying the Molecular Mechanism of Tumor Suppression by Maspain in Breast Cancer	\$451,500
BC010712	Zheng	Xiaofeng	Washington University	The Role of FRAP in DNA Damage Control and Breast Cancer Therapy	\$462,000

Career Development Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC010311	Abraham	Jame	West Virginia University	Randomized Trial of Neuroprotective Effects of Erythropoietin in Patients Receiving Adjuvant Chemotherapy for Breast Cancer: Positron Emission Tomography and Neuropsychological Study	\$50,864
BC010519	Acs	Geza	Pennsylvania, University of	Role of Autocrine Erythropoietin Signaling in the Survival of Human Breast Cancer under Hypoxic Conditions	\$279,283
BC011007	Adegoke	Olufemi	Meharry Medical College	Gene-Gene and Gene-Environment Interactions in the Etiology of Breast Cancer	\$298,730
BC011218	Benjamin	Laura	Beth Israel Deaconess Medical Center, Boston	The Role of Bone Marrow-Derived Stem Cells on Mammary Tumor Angiogenesis, Growth, and Metastasis, and the Influence of VEGF-A and PlGF on Their Recruitment	\$401,200
BC011097	Boyer	Thomas	Texas Health Science Center, University of, San Antonio	Regulation of BRCA1 Function by DNA Damage-Induced Site-Specific Phosphorylation	\$176,516
BC010072	Chen	Junjie	Mayo Clinic and Foundation, Rochester	Analysis of BRCA1/53BP1 Interaction in DNA Damage/Repair Pathway	\$341,020
BC010118	Crowe	David	Southern California, University of	Estrogen and Retinoid Regulation of DNA Repair in Breast Cancer	\$383,500
BC010462	Dai	Jiale	M.D. Anderson Cancer Center, University of Texas	SYK Gene Expression, SYK Protein Expression, and Breast Cancer Invasion	\$286,109
BC010972	Dernell	William	Colorado State University	Evaluation of Interacavitary Chemotherapy Delivery for Treatment of Mammary Carcinoma	\$110,019

BC010031	Dimri	Goberdhan	New England Medical Center, Boston	Role of p53 in Mammary Epithelial Cell Senescence	\$350,048
BC010823	Fleming	Karen	Johns Hopkins University, East Baltimore Campus	Energetics and Structure Prediction of the Network of Homo- and Hetero-Oligomers Formed by the Transmembrane Domains of the ErbB Receptor Family of Proteins	\$217,250
BC010666	Gorski	David	University of Medicine and Dentistry, New Jersey	Regulation of Breast Cancer-Induced Angiogenesis by a Growth Arrest-Specific Homeobox Transcription Factor	\$261,114
BC010863	Hinck	Lindsay	California, University of, Santa Cruz	Functional Disruption of the Netrin-1 Guidance Cue Leads to Disruption in Mammary Gland Development and Increased Tumor Incidence	\$266,304
BC011296	Hsiang	David	California, University of, Irvine	Monitoring the Response of Chemotherapy on Breast Cancer Tumors by Photon Migration Spectroscopy	\$256,639
BC011304	Khosravi-Far	Roya	Beth Israel Deaconess Medical Center, Boston	Immune Escape of Breast Carcinomas through Regulation of Anti-Apoptotic Factors	\$401,197
BC010870	Kleer	Celina	Michigan, University of	Detection of Metastatic Potential in Breast Cancer by RhoC-GTPase and WISP3 Proteins	\$355,152
BC010208	Liang	Wenchi	Georgetown University	Impact of Culture on Breast Cancer Screening in Chinese American Women	\$191,160
BC010402	Nephew	Kenneth	Indiana University, Indianapolis	Role of the Neddylation Enzyme Uba3, a New Estrogen Receptor Corepressor, in Breast Cancer	\$348,277
BC011193	Nguyen	Mai	California, University of, Los Angeles	Endothelial Genes	\$360,048
BC010450	Planas-Silva	Maricarmen	Pennsylvania State University, Milton S. Hershey Medical Center	Role of AIB1 in Estrogen-Dependent Cyclin D1 Expression	\$331,580

BC010494	Ponnazhagan	Selvarangan	Alabama, University of, Birmingham	Targeted Gene Therapy for Breast Cancer	\$174,121
BC011063	Pusztai	Lajos	M.D. Anderson Cancer Center, University of Texas	The Role of Sigma Receptor in Breast Cancer	\$241,200
BC011178	Rowan	Brian	Ohio, Medical College of	The Role of Novel Phosphorylation Sites in Estrogen Receptor Alpha and the Corepressor N-CoR in the Antagonist and Agonist Action of Tamoxifen	\$186,486
BC010165	Shen	Zhiyuan	New Mexico, University of	BRCA2-Interacting Proteins and Breast Cancer Intervention	\$352,966
BC011028	Song	Robert	Virginia, University of	Membrane Estrogen Receptor Alpha Targeting and Its Association with SHC in Regulating Breast Cancer Cell Proliferation	\$349,280
BC010246	Waltz	Susan	Children's Hospital, Cincinnati	Ron in Breast Development and Cancer	\$227,695
BC011317	Yew	P. Renee	Texas Health Science Center, University of, San Antonio	The Role of BRCA1-Dependent Ubiquitination in Breast Cancer	\$181,960
BC011224	Zhao	Hongwei	Rochester, University of	Statistical Inference for Quality-Adjusted Survival Time	\$374,979

Postdoctoral Traineeship Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC010963	Bartholomeusz	Geoffrey	M.D. Anderson Cancer Center, University of Texas	A Novel Apoptotic Molecule Bok for the Treatment of Breast Cancer	\$150,000
BC011363	Cervantes	Rachel	Baylor College of Medicine	The Role of the Telomere End Protection Complex in Telomere Maintenance	\$149,995
BC011326	Cheng	Jinke	M.D. Anderson Cancer Center, University of Texas	The Role of MEKK3 Signaling Pathway in the Resistance of Breast Cancer Cells to TNF-Alpha-Mediated Apoptosis	\$148,392
BC019020	Collado Hidalgo	Alicia	California, University of, Los Angeles	The Implications of TGF-Beta Overexpression in Tumor Progression	\$150,000
BC010923	Connor	Michael	Sunnybrook and Women's College Health Science Centre	The Role of Phosphorylation in the Regulation of p27 Function in Breast Cancer	\$150,000
BC011344	Cui	Yukun	Baylor College of Medicine	The Role of Estrogen Receptor (Alpha) K303R Mutation in Breast Cancer Metastasis	\$149,997
BC010242	Dijkgraaf	Gerrit Jan Peter	California, University of, San Francisco	Identification of MMP Substrates in the Mammary Gland	\$150,000
BC011311	Ding	Yi	M.D. Anderson Cancer Center, University of Texas	Adenovirus-Mediated p202 Gene Transfer in Breast Cancer Gene Therapy	\$150,000
BC010350	Dominiecki	Mary	Pennsylvania, University of	Immunotherapy of Breast Cancer Using Novel Her2/neu-Based Vaccines	\$150,000
BC010879	Du	Jian	Cold Spring Harbor Laboratory	Molecular Basis of Genomic Instability in Breast Cancer: Regulation of the Centrosome Duplication Cycle	\$150,000

BC011316	Eliopoulos	Nicoletta	McGill University	Genetically Engineered Autologous Cells for Antiangiogenic Therapy of Breast Cancer	\$150,000
BC010748	Essler	Markus	Burnham Institute	Characterization of Receptors for Peptides Homing to the Vasculature of the Breast and Breast Carcinomas by Display Cloning	\$150,000
BC010057	Flanagan	Louise	Notre Dame, University of	Molecular Mechanisms of Metastatic Progression in Breast Cancer	\$150,000
BC011348	Gao	Xiuhua	Baylor College of Medicine	Involvement of Steroid Receptor Coactivators/Ubiquitin Pathway Enzymes in Mammary Gland Tumorigenesis	\$150,000
BC011258	Guo	Yuli	Dana-Farber Cancer Institute	Understanding Endogenous c-Myc Function in Human Breast Cancer Development	\$150,000
BC011360	Hersh	Megan	Baylor College of Medicine	Mutator DNA Polymerases and Inhibition of Mismatch Repair in Stress-Induced Mutation in Non-Growing Cells	\$150,000
BC010504	Hinson	Shannon	Mayo Clinic and Foundation, Rochester	The Role of BRCA1 in Centrosome Regulation	\$150,000
BC010635	Hoelz	Dragana	Indiana University	Cancer Specific Proliferating Cell Nuclear Antigen as a Novel Diagnostic Marker for the Detection of Breast Cancer	\$150,000
BC010288	Huang	Huey Jing	Duke University Medical Center	Definition of the Molecular Mechanisms Which Distinguish between Selective Estrogen Receptor Modulators (SERMs) and Full	\$150,000
BC011123	Hughes	David	International Agency for Research on Cancer	Genetic Analysis of Candidate Modifier Genes in BRCA1 and BRCA2 Mutation Carrier	\$149,999
BC011347	Immaneni	Anand	Baylor College of Medicine	Can Gene Expression Pattern Analysis Predict Recurrence in Node-Negative Breast Cancer?	\$149,998

BC011361	Jin	Jianping	Baylor College of Medicine	Control of Cyclin D1 Proteolysis in Cell Division and Cancer	\$150,000
BC011353	Kallesen	Michelle	Baylor College of Medicine	Hormonal Regulation of Mammary Gland Development and Breast Cancer	\$150,000
BC011201	Kasanov	Jeremy	Brigham and Women's Hospital	The Role of IQGAP1 in Neoplastic Growth and Metastasis	\$150,000
BC011026	Keegan	Brendan	Dartmouth College	Provasopressin as a Target for Breast Cancer	\$149,558
BC011173	Kockel	Lutz	Harvard University, Boston	Isolation and Analysis of Human Kekkon-Like Molecules, a Family of Potential Inhibitors of ErbB Receptor Tyrosine Kinases	\$150,000
BC010495	Kominsky	Scott	Johns Hopkins University, East Baltimore Campus	Characterization of the Role of Claudin-7 in Breast Cancer Tumorigenesis	\$150,000
BC010117	Kurz	Ebba	Calgary, University of	Activation of ATM by DNA Damaging Agents	\$150,000
BC011044	Le Beyec	Johanne	Lawrence Berkeley National Laboratory	Chromatin Regulation of the EGFR Locus in Human Mammary Epithelial Cells	\$150,000
BC010720	Lee	Sunyoung	California, University of, Los Angeles	Modulation of VEGF Bioavailability in Breast Tumors by Direct MMP Cleavage	\$150,000
BC010490	Li	Chenglong	Burnham Institute	RIZ Tumor Suppressor and Breast Cancer: The PR Domain	\$147,254
BC011065	Lin	Yinling	Indiana University, Indianapolis	The Role of HSP90 in the Control of Breast Cancer by NKT Cells	\$150,000
BC010115	Lipscomb	Elizabeth	Beth Israel Deaconess Medical Center, Boston	The Role of Neuropilin in Breast Cancer Metastasis	\$150,000
BC010370	Lu	Jianrong	Harvard University, Boston	Characterization of Two Novel Oncogenic Pathways Collaborating with Loss of p53 or Activated Neu in Mouse Models of Breast Cancer	\$150,000
BC010218	Luque	Alfonso	California, University of, Los Angeles	Angiogenesis Inhibitors in Breast Cancer	\$150,000

BC011188	Ma	Feng-Rong	Dana-Farber Cancer Institute	The Role of PD-1 Ligand in Immune Evasion by Breast Cancer	\$150,000
BC010533	Metheny-Barlow	Linda	Georgetown University	Regulation of Tie2 during VEGF-Mediated Inhibition of Angiogenesis	\$150,000
BC010378	Metz	Richard	AMC Cancer Research Center	Adolescent Mammary Gland Development and Carcinogenesis: Effects of Vitamin A Intake on Mammatrophic Hormone Signaling	\$150,000
BC011034	O'Kelly	James	Cedars-Sinai Medical Center	Interaction of BRCA1 and p27Kip1 Pathway in Breast Cancer	\$150,000
BC011096	Okobia	Michael	Pittsburgh, University of	Estrogens, Genetic Polymorphisms, and Breast Cancer Risk	\$133,297
BC011265	Pan	Quintin	Michigan, University of	Suppression of NFkB by Tetrathiomolybdate Inhibits Tumor Angiogenesis and Enhances Apoptosis in Human Breast Cancers	\$149,893
BC011276	Perez-Moreno	Mirna	Memorial Sloan-Kettering Cancer Center	Role of E-Cadherin Homophilic Contacts in the Inhibition of Cell Growth of Primary Breast Cells	\$149,993
BC010160	Porter	Dale	Dana-Farber Cancer Institute	Identification of a Receptor for Tumor Suppressor HIN-1	\$150,000
BC010434	Ramadas	Vidya	Kansas, University of, Lawrence	Synthesis of Cryptophycin Affinity Labels and Tubulin Labeling	\$147,895
BC010452	Rubin	Ethel	Johns Hopkins University, East Baltimore Campus	HOXB7: An Oncogenic Gene in Breast Cancer Cells?	\$150,000
BC011352	Shou	Jiang	Baylor College of Medicine	The Role of p38 MAP Kinase in the Development of Breast Cancer Endocrine Resistance	\$149,998
BC010676	Shrubsole	Martha	Vanderbilt University	Folate and Breast Cancer: Role of Intake, Blood Levels, and Metabolic Gene Polymorphisms	\$147,812
BC010926	Sugiro	Francisca	New York, State University of, Albany	Investigation of Post-Patient Tapered Monolithic Optics for Mammography	\$150,000

BC010704	Talwar	Rashmi	California, University of, San Diego	IKK Mediated Inhibition of Breast Cancer	\$150,000
BC010069	Tomes	Ladislav	Manitoba, University of	Stromal Hypoxia in Breast Cancer Progression	\$146,783
BC011356	Wang	Bin	Baylor College of Medicine	Involvement of 53BP1, a p53 Binding Protein, in Chk2 Phosphorylation of p53 and DNA Damage Cell Cycle Checkpoints	\$150,000
BC010522	Xu	Danbin	Washington, University of	Inherited Cryptic Genomic Alterations at BRCA1 and BRCA2 and Residual Familial Risk of Breast Cancer	\$150,000
BC011322	Xu	Min	New York, City University of, City College of New York	Time-Resolved Spectral Optical Breast Tomography	\$150,000
BC010986	Yamada	Hiroshi	Oklahoma, University of	Identification and Targeting of Components of the Spindle Checkpoint Pathway in Mammalian Cells for the Development of Novel Anti-Cancer Therapies	\$150,000
BC010433	Zagozdzon	Radoslaw	Beth Israel Deaconess Medical Center, Boston	Effects of Csk Homologous Kinase Overexpression on HER2/Neu-Mediated Signal Transduction Pathways in Breast Cancer Cells	\$150,000
BC011306	Zhang	Hao	Baylor College of Medicine	Defining the Genetic Roles for the Coactivator AIB3, "Amplified in Breast Cancer-3," in Mammary Gland Biology and Breast Cancer	\$149,850

Predocctoral Traineeship Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC010457	Akerman	Maria	Burnham Institute	Targeting of an Anti-Metastatic and Anti-Angiogenic Compound to Breast Tumors	\$66,000
BC010783	Al-Masri	Azzah	Mayo Clinic and Foundation, Scottsdale	The Role of MUC1 Cytoplasmic Domain in Tumorigenesis	\$65,777
BC011163	Anose	Bynthia	Minnesota, University of, Twin Cities	Role of the AREB6/ZEB Transcription Factor in Invasive Breast Cancer	\$44,000
BC010521	Antonaci	Francesca	Illinois, University of, Champaign/Urbana	Control of Transformation and Invasiveness of Breast Cancer Cells by Estrogen Regulation of Proteinase Inhibitor 9	\$66,000
BC010834	Archer	Herbert	New York, State University of, Stony Brook	Identification of the Role of MnSOD in EGFR-Positive Breast Cancer Development	\$66,000
BC011277	Arendell	Leslie	Arizona, University of, Tucson	Relationship between Mammographic Density and IGF Levels among Hispanic and Non-Hispanic White Women	\$59,640
BC010948	Block	Karen	Texas Health Science Center, University of, San Antonio	The Role of Ubiquitin-Mediated Proteolysis of Cyclin D in Breast Cancer	\$65,636
BC010349	Boggs	Kristy	South Carolina, University of	Understanding the Control of p53 Transcription: A Crucial Factor in the Genesis of Breast Cancer	\$66,000
BC010904	Brigati	Jennifer	Auburn, University of	Novel Peptide Ligands for Targeting Breast Cancer Cells	\$66,000
BC010026	Burdick	Andrew	New Mexico, University of	Aryl Hydrocarbon Receptor (AhR) and Non-AhR Mechanisms of Human Mammary Epithelial Cell Growth Regulation by Benzo(a)pyrene	\$62,839

BC011190	Buvelot	Stephanie	Fred Hutchinson Cancer Research Center	Regulation and Functions of the Ipl1/Aurora Kinase	\$66,000
BC011285	Byron	Sara	Minnesota, University of, Twin Cities	Differential Roles of Insulin Receptor Substrate-1 and -2 in Insulin-Like Growth Factor Signaling in Breast Cancer Cells	\$66,000
BC010780	Cama	Evis	Pennsylvania, University of	Structure-Based Design of Arginase Inhibitors: Antiproliferative Agents in Breast Cancer	\$44,000
BC010229	Campo	Dianalee	Pennsylvania State University	Roles of Osteonectin in Breast Cancer Metastasis to Bone	\$66,000
BC010488	Cao	Yiting	Duke University Medical Center	The Role of Carbonic Anhydrase 9 Expression in Breast Cancer	\$66,000
BC011195	Carmell	Michelle	Cold Spring Harbor Laboratory	Whole Genome Epigenetics	\$66,000
BC011249	Castelo-Soccio	Leslie	Cornell University, Weill Medical College	Mechanism of Wnt4 Signaling in the Breast	\$65,948
BC010825	Chao	Connie	California, University of, San Diego	Functional Analysis of Brca1 Phosphorylation by ATM Family Kinases in Brca1-Dependent Tumor Suppression in Mammary Gland	\$66,000
BC011018	Chen	Dan	California, University of, Berkeley	Induction of Apoptosis by Targeting the Microtubule Network: Using HIV Tat as a Model System	\$65,509
BC010322	Chen	Susan	Duke University Medical Center	The Role of Rad17 in DNA Damage Checkpoint Signaling and Initiation of Apoptosis in Mammary Cells	\$66,000
BC011373	Choi	Yongmun	Baylor College of Medicine	Inhibition of Her2 Transcription by Small Organic Molecules	\$66,000
BC010460	Clark	Daniel	Pennsylvania State University	Discovery of Cyclic Peptide Estrogens and Antiestrogens	\$66,000
BC010767	Davis	Shelly	Wisconsin, University of, Madison	Exploring a Link between NF-(kappa)B and G(2)/M Cell Cycle Arrest in Breast Cancer Cells	\$66,000
BC010669	Debies	Michael	Pennsylvania State University, Milton S. Hershey Medical Center	Study of brms1 Mechanism of Action Using a Homozygous Null Knock-Out Mouse	\$65,990

BC010890	Defreest	Lori	Albany Medical College	Identification of Cellular Binding Sites for a Novel Human Anti-Breast Cancer Peptide	\$66,000
BC011350	Denardo	David	Baylor College of Medicine	Mechanisms of Estrogen-Stimulated Growth in Breast Cancer	\$65,980
BC011106	Dziegielewska	Barbara	Roswell Park Cancer Institute, Buffalo	DNA Damage Response to the Novel Anticancer Agent Ecteinascidin Et 743: Effects on Cellular DNA Replication and Repair	\$66,000
BC010279	Fortier	Julie	St. Louis University	The Role of NKLAM in the Killing of Tumor Cells	\$66,000
BC010531	Gomez	Bianca	Georgetown University	CRE Activation in Antiestrogen Resistance	\$66,000
BC011376	Green	Mario	Florida A&M University	The Inhibition of Estrogen Metabolism and Gene Regulation by Diallyl Sulfide as Possible Mechanisms of Breast Cancer Prevention	\$65,679
BC011239	Greene	Carmen	Georgia Institute of Technology	Intraoperative Imaging of Sentinel Lymph Nodes	\$66,000
BC010645	Guardiola	Amaris	Duke University Medical Center	Characterization of the Role of HDAC6 as a Regulator of p53 Acetylation in Breast Carcinogenesis	\$66,000
BC011067	Gupta	Piyush	Massachusetts Institute of Technology	Contribution of Bone Marrow-Derived Cells to the Tumor Stroma in Human Breast Cancer	\$66,000
BC011221	Hackett	John	Ohio State University	Structure-Based Design of ATP Competitive Keratinocyte Growth Factor Receptor Tyrosine Kinase Inhibitors	\$66,000
BC011233	Haq	Bushra	Miami School of Medicine, University of	Investigation of the Role of Sialomucin Complex (SMC)/Muc4, a Unique Intramembranous HER-2/ErbB-2 Ligand, as a Suppressor of Apoptosis	\$66,000

BC011214	Harris	Casey	Chicago Medical School	Breast Cancer in the Family Context: Predictors and Consequences of Communication about Cancer with the Patient's Children	\$43,961
BC011152	Hartwell	Kimberly	Massachusetts Institute of Technology	Characterization of the Role of Beta-Catenin in Tumor Invasion	\$66,000
BC011133	Hearnes	Jamie	Vanderbilt University	In Vivo p53 Signaling in Breast Epithelial Cells after Oncogenic Stimulus	\$66,000
BC010225	Hedley	Benjamin	London Regional Cancer Centre	Biological Mechanisms of Metastasis Suppression: Which Steps in the Metastatic Cascade Are Inhibited by the Metastasis Suppressor Gene BRMS1?	\$65,981
BC010294	Hendry	Sherry	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	Characterization of the Interaction of BRCA1 and Protein Phosphatase 1	\$43,932
BC010699	Hines	William	New Mexico, University of	Identification of the Types, Properties, and Functional Characteristics of Telomerase Expressing Cells in Breast Cancer	\$66,000
BC010665	Ho	William	Wistar Institute	Structural Basis for the Pharmacological Rescue of Mutant p53 with Small Molecule Compounds	\$66,000
BC010664	Holbert	Marc	Wistar Institute	Structural Studies of the BRCA1-Associated Human SWI/SNF Complex	\$66,000
BC010059	Hu	Meiduo	University Health Network, Toronto	Novel Radiopharmaceuticals Directed towards p21WAF-1/CIP-1 for Imaging the Early Molecular Response to Treatment in Breast Cancer	\$62,533
BC010530	Hubbert	Charlotte	Duke University Medical Center	Functional Analysis of a Novel Tubulin Deacetylase in Breast Carcinogenesis	\$66,000

BC010960	Huggins	Christopher	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	Characterization of a Proposed Novel BRCA2 Interaction	\$44,000
BC010094	Jaskelioff	Mariela	Massachusetts Medical Center, University of	Role of Chromatin Remodeling by RAD54 in DNA Damage Repair and Homologous Recombination	\$66,000
BC011290	Jiang	Lan	Texas Southwestern Medical Center, University of, Dallas	A BOLD Magnetic Resonance Approach to Breast Tumor Evaluation	\$66,000
BC010968	Kamalakaran	Sitharthan	Illinois, University of, Chicago	Identification of Novel Inhibitory Peptides of Protein-Protein Interactions Involved in DNA Repair as Potential Drugs in Breast Cancer Treatment	\$66,000
BC010674	Kim	Wes	Maryland, University of, Baltimore	Development of Novel Breast Cancer Therapy: Testing of Computer-Aided Rational Drug Design of Small Molecular Weight Compounds to Inhibit PC-Cell-Derived Growth Factor (PCDGF)	\$65,880
BC010706	King	Megan	Pennsylvania, University of	The Role of Dynamin in the Regulation of Signaling by the erbB Family of Receptor Tyrosine Kinases	\$66,000
BC010886	Kurpios	Natasza	McMaster University	The Role of the Ets Transcription Factor ERM in Mammary Gland Development and Oncogenesis	\$65,989
BC010380	Lee	Anthony	South Carolina, University of	Studies on the Novel Anticancer Agents Metabolically Formed from 17- beta-Estradiol	\$43,670
BC010604	Li	Yan	M.D. Anderson Cancer Center, University of Texas	Targeting Breast Cancer by Cancer- Specific Recombinase-Mediated Transgene Expression	\$66,000
BC011374	Lopez	Christopher	Baylor College of Medicine	A Role for Topoisomerase III in the Maintenance of Genomic Stability	\$65,943
BC010220	Lyons	Traci	Colorado Health Sciences Center, University of	Proteomic Identification of AKT Substrates in the Mammary Gland	\$66,000

BC010219	Malone	Jennifer	Colorado State University	Identification of Novel Genes Affected by Gamma Irradiation Using a Gene-Trapped Library of Human Mammary Epithelial Cells	\$66,000
BC011054	Mar	Brenton	Illinois, University of, Champaign/Urbana	Novel Membrane-Associated Targets for Diagnosis and Treatment of Breast Cancer	\$66,000
BC010241	Markey	Mia	Duke University Medical Center	Modular Machine Learning Methods for Computer-Aided Diagnosis of Breast Cancer	\$65,995
BC011314	Marshall	Renee	Temple University School of Medicine	Regulation of T-Type Cyclin/CDK9 Complexes in Breast Cancer Cells	\$66,000
BC011244	Mastracci	Teresa	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	Investigation of Lobular Carcinoma in Situ, Using Molecular Genetic Techniques, for the Involvement of Novel Genes	\$66,000
BC011241	McReynolds	Matthew	Kansas, University of, Lawrence	Design, Synthesis, and Biological Evaluation of Novel MMP Inhibitors as Potential Therapeutics for Breast Cancer	\$66,000
BC010445	Mercer	Robyn	Pennsylvania State University	Breast Cancer Metastasis to Bone Affects Osteoblast Differentiation	\$65,792
BC010631	Mills	Laura	South Carolina, University of	Effects of Naturally Occurring Estrogen Fatty Acid Esters on Mammary Cell Growth and Carcinogenesis in Female Rats	\$43,670
BC011168	Modzelewska	Katarzyna	Wisconsin, University of, Madison	ack-1 Tyrosine Kinase Regulates Integrin Signaling Leading to Breast Migration	\$66,000
BC011144	Mullany	Lisa	Minnesota, University of, Twin Cities	Cell Cycle Dependent Regulation of Human Progesterone Receptor in Breast Cancer	\$66,000
BC010103	Nagl	Norman	Temple University School of Medicine	Analysis of a Novel Parologue of SWI/SNF Member p270 Which Is Frequently Down-Regulated in Breast Cancer	\$66,000

BC010403	Nahle	Zaher	Cold Spring Harbor Laboratory	Analysis of the ARF/p53 Pathway during Oncogenic Stimulation	\$66,000
BC010845	Neighbors	Jeffrey	Iowa, University of	Molecular Basis for the Toxicity of Schweinfurthins to Breast Cancer Cells	\$66,000
BC011199	Nowell	Susan	Arkansas for Medical Sciences, University of	Sulfotransferase 1A1 (SULT1A1) Genotype and Phenotype in Relation to Efficacy of Tamoxifen Treatment	\$56,358
BC010672	Oh	Annabell	Georgetown University	EGF Regulation of Nuclear Co-Activator AIB1 Function in Breast Cancer	\$66,000
BC010415	Olivo	Susan	Georgetown University	Regulation of BRCA1 by Estrogenic Dietary Compounds and Breast Cancer Risk	\$66,000
BC011120	Palmer	Gregory	Wisconsin, University of, Madison	Diagnosis of Breast Cancer Using Fluorescence and Reflectance Spectroscopy	\$66,000
BC010745	Parham	Christopher	North Carolina, University of, Chapel Hill	Comparison of Image Quality among Variations in Specimen Tissue Compression and Fluid Immersion for Diffraction-Enhanced Imaging	\$43,996
BC010658	Parrinello	Simona	Lawrence Berkeley National Laboratory	Aging, Breast Cancer, and the Mouse Model	\$66,000
BC010022	Patsialou	Antonia	Temple University School of Medicine	Characterization of the Novel DNA-Binding Activity of p270, a hSWI/SNF Protein Frequently Down-Regulated in Breast Cancer	\$66,000
BC010411	Peck	Jeremy	Georgetown University	Differential Control of ERBB2 Surface Expression in Breast Cancer Cells by an Alternatively Spliced Form of ERBIN	\$66,000
BC011359	Pennington	Jeanine	Baylor College of Medicine	Roles of RecQ Helicases in the Prevention of Genomic Instability	\$66,000
BC010273	Perepelitsa	Victoria	Tulane University	Retroelements and Genetic Instability in Breast Cancer	\$66,000

BC011098	Piao	Daqing	Connecticut, University of, Storrs	Monitoring Cancer Oxygenation Changes Induced by Ultrasound	\$65,994
BC011073	Post	Sean	Texas Health Science Center, University of, San Antonio	Phosphorylation of hRad17 by ATR Is Required for Cell Cycle Checkpoint Activation	\$61,342
BC010421	Prabha	Swayam	Nebraska, University of	Nanoparticle-Mediated p53 Gene Therapy for Breast Cancer	\$66,000
BC010384	Prescott	Jason	Colorado Health Sciences Center, University of	Analysis of a Causal Role for ESX in Human Breast Cancer	\$66,000
BC011109	Rahim	Rayhana	West Virginia University	Augmentation of the Differentiation Response to Antitumor Antimalarials	\$66,000
BC011075	Rinne	Mikael	Indiana University, Indianapolis	Imbalancing the DNA Base Excision Repair Pathway Sensitizes Breast Cancer Cells to Chemotherapy and Modulates DNA Nucleotide Excision Repair: Potential for Combination Chemotherapy	\$65,993
BC010600	Roberts	David	North Carolina, University of, Chapel Hill	Analysis of a Novel, Vascular RasGEF in Breast Cancer Neovascularization and Development	\$66,000
BC010928	Scrivens	Paul	McGill University	Mechanism of Antineoplastic Action of Bisperoxovanadium Compounds	\$66,000
BC011046	Simpson	Jennifer	Pittsburgh, University of	Hormonal Determinants of Mammographic Density	\$66,000
BC010346	Smith	Kyle	Michigan State University	Analysis of Progestin Effects on Hepatocyte Growth Factor Signaling Pathways in Relation to Proliferation and Alveolar Morphogenesis of Normal Mammary Epithelial Cells in Vitro	\$65,964
BC010442	Starita	Lea	Brigham and Women's Hospital	BRCA1-Mediated Ubiquitination: Identification of Targets for Destruction	\$66,000

BC010583	Swift	Matthew	Georgetown University	FGF Activation and Signaling in Breast Cancer	\$66,000
BC010211	Thomas	Lance	Wake Forest University School of Medicine	Mechanism of FADD-DN-Induced Apoptosis in Normal Breast Cells	\$61,060
BC010417	Turunen	Brandon	Kansas, University of, Lawrence	The Design, Synthesis, and Biological Evaluation of New Paclitaxel Analogs with the Ability to Evade Efflux by P-Glycoprotein	\$66,000
BC010413	Van De Water	Ryan	California, University of, Santa Barbara	A Synthetic Route to the Novel Telomerase Inhibitor Diazaphilonic Acid: Application of an Asymmetric Dearomatization Protocol	\$66,000
BC010385	Voltz	James	Duke University Medical Center	A Critical Role for NHERF in Estrogen-Induced Cellular Proliferation	\$66,000
BC010285	Wang	Min	Iowa, University of	The Enzyme MnSOD Suppresses Malignant Breast Cell Growth by Preventing HIF-1 Activation	\$66,000
BC010818	Wei	Yue	Baylor College of Medicine	Molecular Dissection of the S Phase Transcriptional Program Controlled by Cyclin E/P220(NPAT) Signaling Pathway	\$66,000
BC010274	Weiser	Douglas	Duke University Medical Center	The Role of GADD34 (Growth Arrest and DNA Damage-Inducible Protein) in Regulating Apoptosis, Proliferation, and Protein Synthesis in Human Breast Cancer Cells	\$66,000
BC011213	Wen	Fang	Burnham Institute	Ets2 Regulation of ErbB2-Induced Mammary Tumors	\$66,000
BC010159	White	Kristina	Dartmouth College	The Role of the Nuclear Receptor Co-Repressor RIP140 in Retinoid-Mediated Growth Suppression of Human Breast Cancer	\$66,000
BC010565	Whitson	Kristin	Vanderbilt University	Kinetics of Dimerization of the Epidermal Growth Factor Receptor	\$44,000

BC011332	Williams	Lisa	Roger Williams General Hospital	Mechanism by Which p66 Shc Suppresses Breast Cancer Tumorigenicity	\$65,999
BC011170	Zhang	Ji	Duke University Medical Center	The Role of Protein Phosphatase 5 in the DNA Damage Checkpoint Pathway	\$66,000
BC010595	Zhao	Xuan	Duke University Medical Center	The Biological Functions of MDM2 Acetylation in Breast Cancer	\$66,000

Undergraduate Summer Training Program Awards

Log Number	PI Last Name	PI First Name	Institution	Proposal Title	Award Amount
BC010435	Brooks	Samuel	Wayne State University	Undergraduate Summer Fellowships in Breast Cancer Research	\$187,740
BC011128	Griffith	Jeffrey	New Mexico, University of	University of New Mexico Undergraduate Breast Cancer Training Program: Pathway to Research Careers	\$132,229
BC010171	Loudon	G.	Purdue University	Summer Undergraduate Training Program in Breast Cancer Research	\$141,000

Fiscal Year 2001 Breast Cancer Research Program Peer Reviewers

Peer Reviewer	Degree	Affiliation
Abraham, George N.	M.D.	University of Rochester School of Medicine
Abraham, Lynne D.		Susan G. Komen Breast Cancer Foundation
Aft, Rebecca	M.D., Ph.D.	Washington University School of Medicine
Akman, Steven A.	M.D.	Wake Forest University
Akporiaye, Emmanuel T.	Ph.D.	University of Arizona Health Sciences Center
Albertson, Donna	Ph.D.	Cancer Research Institute
Aldaz, Claudio M.	M.D., Ph.D.	University of Texas, M.D. Anderson Cancer Center
Alexander, Caroline M.	Ph.D.	University of Wisconsin Medical School, McArdle Lab for Cancer Research
Alkire, Susan		Y-ME, Women's Cancer Task Force
Alligood, Martha R.		University of Tennessee
Alperin, Noam J.	Ph.D.	University of Illinois at Chicago
Andrykowski, Michael A.	Ph.D.	University of Kentucky
Anthony, Donald D.	M.D.	Case Western Reserve University
Armato, III, Samuel G.	Ph.D.	University of Chicago
Aube, Jeffrey	Ph.D.	University of Kansas
Bachur, Nicholas R.	M.D., Ph.D.	University of Maryland Cancer Center
Ball, Kathleen M.		Breast Cancer Alliance of Greater Cincinnati
Banerjee, Asok	Ph.D.	University of Texas Health Science Center
Bar-Eli, Menashe	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Barcellos-Hoff, Mary Helen	Ph.D.	Lawrence Berkeley National Laboratory
Baron, John A.	M.D.	Dartmouth Medical School, Hitchcock Medical Center
Barton, Michelle C.	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Basu, Alakananda	Ph.D.	University of North Texas Health Science Center
Bazell, Robert		NBC, Inc.

Peer Reviewer	Degree	Affiliation
Beech, Bettina M.	Dr.P.H., M.P.H.	University of Memphis Prevention Center
Beer, David G.	Ph.D.	University of Michigan Medical Center
Benedict, Joyce A.		Halifax Medical Center
Bergers, Gabriele	Ph.D.	University of California, San Francisco, Hormone Research Institute
Berman, Barbara A.	Ph.D.	University of California, Los Angeles
Berman, Howard M.		Executive Secretary
Beyer, Deanna A.		American Cancer Society
Bird, Richard C.	Ph.D.	Auburn University
Blackstock, Arthur William, Jr.	M.D.	Wake Forest University
Blomberg, Bonnie B.	Ph.D.	University of Miami School of Medicine
Bodemuller, Mary F.		Rainelle Medical Center, Inc.
Boothman, David Allen	Ph.D.	Case Western Reserve University
Borgstahl-Kramer, Gloria E.O.	Ph.D.	University of Toledo
Bose, Shikha	M.D.	University of California, Los Angeles, Center for Clinical Health Sciences
Boyett, James M.	Ph.D.	St. Jude Children's Research Hospital
Bradlow, Herbert Leon	Ph.D.	Hackensack University Medical Center, Institute for Biomedical Research
Brandwein, Michele W.		People Living Through Cancer
Brattain, Michael G.	Ph.D.	Roswell Park Cancer Institute
Briehl, Margaret M.	Ph.D.	University of Arizona
Brodsky, Frances M.	D.Phil	University of California, San Francisco
Brown, David B.	Ph.D.	University of Texas Medical Branch
Brown, Milton L.	M.D., Ph.D.	University of Virginia
Brown, Powel H.	M.D., Ph.D.	Baylor College of Medicine
Brueggemeier, Robert W.	Ph.D.	Ohio State University
Bruner, Deborah Watkins	Ph.D.	Fox Chase Cancer Center
Buck, Clayton A.	Ph.D.	The Wistar Institute

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Buki, Lydia P.	Ph.D.	University of Illinois
Burish, Thomas G.	Ph.D.	Vanderbilt University
Burke, Thomas G.	Ph.D.	University of Kentucky
Cabot, Myles C.	Ph.D.	John Wayne Cancer Institute
Cady, Blake	M.D.	Women and Infant's Hospital
Canin, Beverly		Benedictine Hospital
Caplan, Elyse S.		Living Beyond Breast Cancer
Carlson, Robert W.	M.D.	Stanford University
Carmignani, Susan E.		Louisiana Breast Cancer Task Force
Carolin, Kathryn A.	M.D.	Wayne State University
Carpenter, Janet S.	Ph.D.	Vanderbilt University School of Nursing
Carraway, Kermit L.	Ph.D.	University of Miami School of Medicine
Case, Larry D.	Ph.D.	Wake Forest University School of Medicine
Casey, Graham	Ph.D.	Cleveland Clinic Foundation
Cerhan, James Robert	M.D., Ph.D.	Mayo Clinic and Foundation
Chai, Karl X.	Ph.D.	University of Central Florida
Chakeres, Donald W.	M.D.	The Ohio State University Medical Center
Chambers, Setsuko Kuki	M.D.	Yale University School of Medicine
Chamness, Gary C.	Ph.D.	Baylor College of Medicine
Chang, Chawnshang	Ph.D.	University of Rochester Medical Center
Chang, Ching-Jer	Ph.D.	Purdue University School of Pharmacy
Chang, Jenny C.N.	M.D.	Baylor College of Medicine
Chang, Lung-Ji	Ph.D.	University of Florida
Chatterjee, Sunil K.	Ph.D.	University of Cincinnati
Chavez, Noel	Ph.D.	University of Illinois at Chicago, School of Public Health
Chen, Chira		Bay Area Breast Cancer Research Advocate

Peer Reviewer	Degree	Affiliation
Chen, Jin	M.D., Ph.D.	Vanderbilt University School of Medicine
Chen, Ling	M.D., Ph.D.	Lexicon Genetics, Inc., Gene Transfer Technologies and Therapeutics
Chen, Shiuan	Ph.D.	Beckman Research Institute of the City of Hope
Chen, Wen-yuan	Ph.D.	Oncology Research Institute, Clemson University
Chen, Xinbin	D.V.M., Ph.D.	University of Alabama at Birmingham
Chin, Robin		National Asian Women's Health Organization
Chin, Y. Eugene	M.D., Ph.D.	Brown University School of Medicine
Chingos, Diana T.		Los Angeles Breast Cancer Alliance
Chrysogelos, Susan A.	Ph.D.	University of Michigan
Churchill, Mair E.A.	Ph.D.	University of Colorado Health Sciences Center
Cidlowski, John A.	Ph.D.	National Institutes of Health, National Institute of Environmental Health Sciences
Citrin, Charles Michael	M.D.	Health South
Clarke, Robert R.	Ph.D.	Georgetown University Medical School, Lombardi Cancer Center
Clevenger, Charles V.	M.D., Ph.D.	University of Pennsylvania Medical School
Clinton, Gail M.	Ph.D.	Oregon Health Sciences University
Coats, Steven R.	Ph.D.	Amgen Corporation
Cohen, Carmel J.	M.D.	Mount Sinai Medical Center
Cohen, Harvey Joel	M.D., Ph.D.	Stanford University Medical School
Cohen, Marion C.	Ph.D.	University of Medicine and Dentistry of New Jersey
Cohen, Stanley	M.D.	University of Medicine and Dentistry of New Jersey Medical School
Compagni Portis, Natalie		Breast Cancer Action
Coney, PonJola	M.D.	Southern Illinois University School of Medicine
Conti, Claudio J.	D.V.M., Ph.D.	University of Texas, M.D. Anderson Cancer Center
Conzen, Suzanne D.	M.D.	University of Chicago School of Medicine
Cook, Julia Lea	Ph.D.	Ochsner Medical Foundation
Couch, Fergus J.	Ph.D.	Mayo Clinic and Foundation

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Cox, Adrienne D.	Ph.D.	University of North Carolina
Coyne, James C.	Ph.D.	University of Pennsylvania
Craig, Ruth W.	Ph.D.	Dartmouth Medical School
Critchlow, Cathy W.	Ph.D.	University of Washington
Curran, Thomas	Ph.D.	St. Jude Children's Research Hospital
Daniels, Letha M.		Giving It Up Makes a Difference
Danks, Mary Kathleen	Ph.D.	St. Jude Children's Research Hospital
Davis, Clarice W.		National Black Leadership Initiative
Davis, Janice		Komen Wichita Race for the Cure
Davis, Vicki L.	Ph.D.	Cedars Sinai Medical Center
Dawson, Laura Ann	M.D.	University of Michigan Hospital Health System
Day, Agnes A.	Ph.D.	Howard University Cancer Center
DeArmond, Bernadette	M.D., M.P.H.	ICON Clinical Research, Inc.
DeMayo, Francesco J.	Ph.D.	Baylor College of Medicine
Dennis, Anthony J.	Ph.D.	Bio-Nova, Inc.
Deuel, Thomas F.	M.D.	Harvard Medical School , Beth Israel Hospital
DeWille, James W.	Ph.D., M.P.H.	The Ohio State University
Diana, John N.	Ph.D.	Executive Secretary
Diefenbach, Michael A.	Ph.D.	Fox Chase Cancer Center
DiFilippo, Frank P.	Ph.D.	Biomec, Inc., Technology Development
DiGiovanna, Michael P.	M.D., Ph.D.	Yale University School of Medicine
Domann, Frederick E.	Ph.D.	University of Iowa
Donehower, Lawrence A.	Ph.D.	Baylor College of Medicine
Douglas, Joanne T.	Ph.D.	University of Alabama at Birmingham
Doxsey, Stephen J.	Ph.D.	University of Massachusetts Medical Center
Dritschilo, Anatoly	M.D.	Georgetown University School of Medicine

Peer Reviewer	Degree	Affiliation
DuBeshter, Brent	M.D.	University of Rochester School of Medicine
Duckett, Colin S.	Ph.D.	National Cancer Institute
Durand, Ralph E.	Ph.D.	British Columbia Cancer Research Center
Durdik, Jeannine M.	Ph.D.	University of Arkansas
Durham, Yvonne D.		Center for Minority Health
Eckhart, Walter	Ph.D.	The Salk Institute
Egan, Kathleen M.	Sc.D., M.P.H.	Harvard School of Public Health
Egan, Sean E.	Ph.D.	The Hospital for Sick Children
El-Ashry, Dorraya	Ph.D.	Georgetown University Lombardi Cancer Center
Elberg, Eve		SHARE
Elliott, Bruce E.	Ph.D.	Queens University, Cancer Research Labs
Elliott, Mary A.		Susan G. Komen Breast Cancer Foundation
Engel, Daniel A.	Ph.D.	University of Virginia School of Medicine
Engleman, Edgar G.	M.D.	Stanford University
Ethier, Stephen P.	Ph.D.	University of Michigan Medical Center
Euhus, David M.	M.D.	University of Texas Southwestern Medical Center
Evans, Lemuel A.	Ph.D.	Executive Secretary
Fahey, Frederic H.	D.Sc.	Wake Forest University School of Medicine
Faraci, Christine L.		Arizona Institute for Breast Health
Feigelson, Heather S.	Ph.D.	American Cancer Society National Home Office, Epidemiology and Surveillance Research
Fenselau, Catherine	Ph.D.	University of Maryland
Ferguson, Diane B.		Louisiana Breast Cancer Task Force
Fisher, Paul A.	M.D., Ph.D.	State University of New York at Stony Brook
Floyd, Carey E.	Ph.D.	Duke University
Fobair, Pat		Community Breast Health Project
Fonfa, Ann		The Annie Appleseed Project

Peer Reviewer	Degree	Affiliation
Fonshill, Pamela L.		Idaho Breast Cancer Coalition
Ford, Heide L.	Ph.D.	University of Colorado Health Sciences Center
Fornabaio, Louise V.		American Cancer Society and Ann's Place
Foster, David A.	Ph.D.	The City University of New York, Hunter College
Franklin, Renty B.	Ph.D.	University of Maryland Dental School
Frost, Andra R.	M.D.	University of Alabama at Birmingham
Fuchs-Young, Robin S.L.	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Fuqua, Suzanne A.W.	Ph.D.	Baylor College of Medicine
Gabrilovich, Dmitry I.	M.D., Ph.D.	University of South Florida, H. Lee Moffitt Cancer Center
Gaido, Kevin	Ph.D.	CIIT Centers for Health Research
Galanis, Evanthia	M.D.	Mayo Clinic and Foundation
Ganapathi, Ram	Ph.D.	Cancer Center, Cleveland Clinic Foundation
Ganz, Patricia A.	M.D.	University of California, Los Angeles, Jonsson Comprehensive Cancer Center
Gattoni-Celli, Sebastiano	M.D.	University of South Carolina
Gendler, Sandra J.	Ph.D.	Mayo Clinic Scottsdale
George, Matthew, Jr.	Ph.D.	Howard University College of Medicine
Gerlach, James H.	Ph.D.	Queens University, Cancer Research Laboratories
Gewirtz, David A.	Ph.D.	Medical College of Virginia
Gillies, Robert J.	Ph.D.	Arizona Cancer Center
Gilmer, Tona M.	Ph.D.	GlaxoSmithKline
Gimotty, Phyllis A.	Ph.D.	University of Pennsylvania School of Medicine
Gines, Venus		Mexican Center of Atlanta
Glacel, Barbara		Y-ME National Breast Cancer Organization
Gmitro, Arthur F.	Ph.D.	University of Arizona
Gobel, Stephen	D.D.S.	Executive Secretary
Graves, David E.	Ph.D.	University of Mississippi

Peer Reviewer	Degree	Affiliation
Graves, Joseph L., Jr.	Ph.D.	Arizona State University West
Greenstein, Anita		Surviving Breast Cancer Support Group
Greiner, Denise A.		St. Luke's Hospital
Griem, Katherine Leslie	M.D.	Rush Presbyterian St. Lukes Medical Center
Griffith, Jeffrey K.	Ph.D.	University of New Mexico School of Medicine
Grimley, Philip M.	M.D.	Uniformed Services University of Health Sciences
Guise, Theresa A.	M.D.	University of Texas Health Sciences Center
Guzman, Raphael C.	Ph.D.	University of California, Berkeley
Haber, Roberta	Ph.D.	Executive Secretary
Haffty, Bruce G.	M.D.	Yale University School of Medicine
Hahn, Peter J.	Ph.D.	State University of New York, Upstate Medical University
Haimovitz-Friedman, Adriana	Ph.D.	Memorial Sloan-Kettering Cancer Institute
Hamel, Paul	Ph.D.	University of Toronto
Hampton, Deborah L.		Y-ME of Chattanooga
Hann, Stephen R.	Ph.D.	Vanderbilt University
Hansen, Marc F.	Ph.D.	University of Connecticut Health Center
Harp, Joyce B.	M.D.	University of North Carolina Chapel Hill
Harper-Sykes, Charlotte		Y-ME of Trenton at Galilee
Harrington, Elizabeth O.	Ph.D.	Brown Medical School, Providence VA Medical Center
Harris, DeLois J.		Y-ME of Trenton at Galilee
Harris, Jules E.	M.D.	Rush University
Harrison, Celia J.	Ph.D.	Boston Biomedical Research Institute
Haslett-Mowrey, Laura		Halifax Medical Center
Haugen, Patricia		Sioux Valley Physician Group
Haut, Michael J.	M.D.	Pennsylvania Hospital
Hayes, Colleen	Ph.D.	University of Wisconsin

Peer Reviewer	Degree	Affiliation
Held, Kathryn D.	Ph.D.	Massachusetts General Hospital
Helferich, William G.	Ph.D.	University of Illinois
Helman, Sandy I.	Ph.D.	Executive Secretary
Heppner, Gloria H.	Ph.D.	Karmanos Cancer Institute
Herman, Michael A.	Ph.D.	Kansas State University
Herzig, Roger H.	M.D.	University of Louisville
Hickey, Robert J.	Ph.D.	University of Maryland School of Medicine, Greenebaum Cancer Center
Higgins, Paul J.	Ph.D.	Albany Medical College
Ho, Shuk-Mei	Ph.D.	University of Massachusetts Medical School
Holt, Jeffrey T.	M.D.	Vanderbilt University School of Medicine
Holt, Shawn E.	Ph.D.	Medical College of Virginia Commonwealth University
Hopmeier, Michael J.	M.S.	Unconventional Concepts, Inc.
Hosick, Howard L.	Ph.D.	School of Molecular Biosciences, Washington University
Howard-Espinoza, Janet M.		Women of Color Breast Cancer Survivors
Htun, Han	Ph.D.	University of California, Los Angeles School of Medicine
Hudgins, William Robert	Ph.D.	Executive Secretary
Hudson, Laurie G.	Ph.D.	University of New Mexico Health Science Center
Huet-Hudson, Yvette Marie	Ph.D.	University of North Carolina at Charlotte
Huff, Vicki	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Hughes, Chanita Ann	Ph.D.	University of Pennsylvania
Hunt, Kelly	M.D.	University of Texas, M.D. Anderson Cancer Center
Huppi, Konrad E.	Ph.D.	National Institutes of Health, National Cancer Institute
Hurwitz, Arthur A.	Ph.D.	State University of New York, Upstate Medical Center
Isaac, Bennie		Y-ME of Trenton at Galilee
Issell, Brian F.	M.D.	Cancer Research Center of Hawaii
Ittmann, Michael M.	M.D., Ph.D.	Houston VA Medical Center, Research Service

Peer Reviewer	Degree	Affiliation
Jaffee, Elizabeth M.	M.D.	Johns Hopkins School of Medicine
Jeng, Meei-Huey	Ph.D.	Indiana University
Jenski, Laura J.	Ph.D.	Marshall University
John, Esther M.	Ph.D.	Northern California Cancer Center
John, Lauren Z.		Breast Cancer Action
Johnson, Carolyn C.	Ph.D.	Tulane University
Johnson, Michael D.	Ph.D.	Lombardi Cancer Center
Johnson, Timothy P.	Ph.D.	University of Illinois at Chicago
Johnston, Randal N.	Ph.D.	University of Calgary
Jorgensen, Carolyn		Susan G. Komen Breast Cancer Foundation
Kacinski, Barry M.	M.D., Ph.D.	Yale University School of Medicine
Kandpal, Raj P.	Ph.D.	Fordham University
Kane, Madeleine A.	M.D., Ph.D.	University of Colorado Health Science Center
Kannan, Perry	Ph.D.	Case Western Reserve University
Karellas, Andrew	Ph.D.	University of Massachusetts Medical Center
Keefer, Garrett V.	Ph.D.	Executive Secretary
Keely, Patricia J.	Ph.D.	University of Wisconsin
Kemp, Christopher J.	Ph.D.	Fred Hutchinson Research Center
Kennedy, Ronald C.	Ph.D.	Texas Tech University Health Sciences Center
Kern, Francis G.	Ph.D.	Southern Research Institute
Kerns, Robert J.	Ph.D.	Wayne State University, College of Pharmacy
Khan, Seema A.	M.D.	Northwestern Memorial Hospital
Khan, Sohaib A.	Ph.D.	University of Cincinnati
Kim, Hyeong-Reh Choi	Ph.D.	Wayne State University
Kinch, Michael S.	Ph.D.	Purdue University
Kipps, Thomas J.	M.D., Ph.D.	University of California, San Diego

Peer Reviewer	Degree	Affiliation
Kirschner, Marvin A.	M.D.	University of Medicine and Dentistry of New Jersey Medical School
Kohlmeier, Hermann H. Martin	M.D., Ph.D., D.Sc.	University of North Carolina at Chapel Hill
Kosir, Mary Ann	M.D.	John D. Dingell VA Medical Center
Krupinski, Elizabeth A.	Ph.D.	University of Arizona
Kubo, Ralph T.	Ph.D.	La Jolla Institute for Allergy & Immunology
Kumar, M. Vijay	Ph.D.	Medical College of Georgia
Kumar, Rakesh	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Kung, Hsing-Jien	Ph.D.	University of California, Davis Comprehensive Cancer Center
Kurzer, Mindy S.	Ph.D.	University of Minnesota
Kwon, Eugene D.	M.D.	Loyola University Medical Center, Cardinal Bernardin Cancer Center
Ladisch, Stephan	M.D.	Children's Research Institute, Children's National Medical Center
Lamb, Dolores J.	Ph.D.	Baylor College of Medicine
Lamph, William W.	Ph.D.	Ligand Pharmaceuticals, Inc.
Lane, Timothy F.	Ph.D.	University of California, Los Angeles School of Medicine
Lange, Carol Ann	Ph.D.	University of Minnesota Cancer Center
Langer, Mark P.	M.D.	Indiana School of Medicine
Lannigan-Macara, Deborah A.	Ph.D.	University of Virginia
Latimer, Jean Johanna	Ph.D.	University of Pittsburgh School of Medicine, Magee Woman's Research Institute
Leach, Robin Jean	Ph.D.	University of Texas Health Sciences Center
Lechleider, Robert J.	M.D.	Uniformed Services University of Health Sciences
Lee, Adrian V.	Ph.D.	Baylor College of Medicine
Lee, Marion M.	Ph.D., M.P.H.	University of California, San Francisco
Lee, William M.	M.D., Ph.D.	University of Pennsylvania School of Medicine
Lefkowitz, Elliot John	Ph.D.	University of Alabama
Lehman, Constance	M.D., Ph.D.	Seattle Cancer Care Alliance
Leung, Benjamin S.	Ph.D.	University of Minnesota

Peer Reviewer	Degree	Affiliation
Levin, Linda S.	Ph.D.	University of Cincinnati
Levine, Beth	M.D.	Columbia University
Li, Lei	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Li, Luyuan	Ph.D.	Georgetown University, Lombardi Cancer Center
Lingrel, Jerry B.	Ph.D.	University of Cincinnati, College of Medicine
Locker, Joseph D.	M.D., Ph.D.	Albert Einstein College of Medicine
Long, Irene		Women's Cancer Resource Center
Lorenzi, Matthew Vincent	Ph.D.	Bristol-Myers Squibb
Lowery, Dolores Lopez	M.S.	Executive Secretary
Lu, Lee-Jane W.	Ph.D.	University of Texas Medical Branch
Lum, Clark K.	Ph.D.	Executive Secretary
Lyn-Cook, Beverly	Ph.D.	Food and Drug Administration
MacDougall, John R.	Ph.D.	CuraGen Corporation
Magun, Bruce E.	Ph.D.	Oregon Health Sciences University
Maidment, Andrew D.A.	Ph.D.	Thomas Jefferson University Hospital
Maihle, Nita Jane	Ph.D.	Mayo Clinic and Foundation
Malli, Sophie		National City Corporation
Manfredi, James J.	Ph.D.	Mount Sinai Medical Center, Rutenberg Cancer Center
Mannarino, Maria A.	M.D.	Executive Secretary
Mantulin, William W.	Ph.D.	University of Illinois at Urbana-Champaign
Marcantonio, Eugene E.	M.D., Ph.D.	Columbia University
Marcus, Aaron J.	M.D.	Cornell University, Weill Medical College
Marshall, James Roger	Ph.D.	Arizona Cancer Center, College of Medicine
Matsunaga, Terry O.	Ph.D., Pharm.D.	Imarx Therapeutics, Inc.
Mayer, Bruce J.	Ph.D.	University of Connecticut Health Center
McCartan, Joanne		Capitol Region Action Against Breast Cancer

Peer Reviewer	Degree	Affiliation
McCarty, Kenneth S., Jr.	M.D., Ph.D.	University of Pittsburgh
McCullough, Charles E.	M.S.	Georgetown University Hospital
McDonagh, Kevin T.	M.D.	University of Michigan
McMichael, Catherine Z.		Louisiana Breast Cancer Task Force
McNeel, Douglas G.	M.D., Ph.D.	University of Wisconsin
Medrano, Estela E.	Ph.D.	Baylor College of Medicine
Mehta, Rajendra	Ph.D.	University of Illinois at Chicago
Meier, Kathryn Elaine	Ph.D.	Medical University of South Carolina
Meland, Diane G.		American Cancer Society
Mellott, Ellen		United Medical Center
Mendonca, Marc S.	Ph.D.	Indiana University School of Medicine
Merajver, Sofia D.	M.D., Ph.D.	University of Michigan Health Systems
Mercurio, Arthur M.	Ph.D.	Harvard Medical School, Beth Israel Hospital
Merrill, Alfred H., Jr.	Ph.D.	Georgia Institute of Technology School of Biology
Mettlin, Curtis J.	Ph.D.	Roswell Park Cancer Institute
Miele, Mary E.	Ph.D.	University of Delaware
Mikkelsen, Ross B.	Ph.D.	Virginia Commonwealth University
Miller, Donald M.	M.D., Ph.D.	James Graham Brown Cancer Center
Miyamoto, Shigeki	Ph.D.	University of Wisconsin Medical School
Moran, Elizabeth	Ph.D.	Temple University School of Medicine, Fels Institute for Cancer Research
Morgan, Richard A.	Ph.D.	National Institutes of Health
Morris, Andrew J.	Ph.D.	University of North Carolina at Chapel Hill
Morris, Patricia L.	Ph.D.	Rockefeller University
Morse, Michael A.	M.D.	Duke University Medical Center
Mortimer, Joanne E.	M.D.	Washington University
Moser, Amy R.	Ph.D.	University of Wisconsin at Madison

Peer Reviewer	Degree	Affiliation
Mount, David	Ph.D.	University of Arizona
Mourad, Nabeeh	Ph.D.	Executive Secretary
Mueller, Susette C.	Ph.D.	Georgetown University Medical School
Mulhern, Sally Ann	Ph.D.	Executive Secretary
Muller, Alexander J.	Ph.D.	Dupont Pharmaceuticals, Glenolden Laboratories
Murphy, Lynne M.		Y-ME of Connecticut
Muti, Paola	M.D.	State University of New York at Buffalo
Nelson, Mark A.	Ph.D.	Arizona Cancer Center
Nephew, Kenneth P.	Ph.D.	Indiana University School of Medicine
Neuhausen, Susan L.	Ph.D.	University of Utah
Neville, Margaret C.	Ph.D.	University of Colorado Health Science Center
Newschaffer, Craig J.	Ph.D.	Johns Hopkins University School of Hygiene and Public Health
Newsham, Irene	Ph.D.	Henry Ford Hospital
Nguyen, Mai H.	M.D.	University of California, Los Angeles
Nixon, Judy K.		North Idaho Cancer Center
Noguchi, Constance T.	Ph.D.	National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases
Nutter, John E.	Ph.D.	Executive Secretary
O'Connell, Peter	Ph.D.	Baylor College of Medicine
Oesterreich, Steffi	Ph.D.	Baylor College of Medicine
Ortiz, Paula		Breast Cancer Resource Center of Austin
Ostrand-Rosenberg, Suzanne	Ph.D.	University of Maryland, Baltimore County
Ove, Peter	Ph.D.	Executive Secretary
Pardo, Francisco S.	M.D.	University of California, San Diego
Park, Dorothy J.	M.D.	Cedar Sinai Medical Center
Parra-Medina, Deborah	Ph.D., M.P.H.	University of South Carolina
Pasquale, Elena B.	Ph.D.	The Burnham Institute Cancer Research Center

Peer Reviewer	Degree	Affiliation
Pasternack, Gary R.	M.D., Ph.D.	Johns Hopkins University School of Medicine
Paterson, Yvonne	Ph.D.	University of Pennsylvania
Patriotis, Christos	Ph.D.	Fox Chase Cancer Center
Pauli, Bendicht U.	D.V.M., Ph.D.	Cornell University
Paulsen, Keith D.	Ph.D.	Dartmouth College, Thayer School of Engineering
Peabody, Richard A.	Ph.D.	Executive Secretary
Peckerar, Martin	Ph.D.	Naval Research Laboratory
Pedersen, Patricia E.		Iowa Breast Cancer Education
Peiris, Jinaseeli		Asian Pacific Islander American Health Forum
Pellegrino, Edmund D.	M.D.	Georgetown University
Pellicer, Angel	M.D., Ph.D.	New York University School of Medicine
Penn, Linda J.Z.	Ph.D.	Ontario Cancer Institute
Pentz, Lundy Hurd	Ph.D.	Mary Baldwin College
Perez, Edith A.	M.D.	Mayo Clinic and Foundation
Perussia, Bice	M.D.	Thomas Jefferson University
Perz, Catherine A.	Ph.D.	University of Houston Victoria
Peschel, Richard E.	M.D., Ph.D.	Yale University School of Medicine
Petty, Elizabeth M.	M.D.	University of Michigan School of Medicine
Philip, Ramila	Ph.D.	Argonex, Inc.
Poston, Walker S. Carlos II	Ph.D., M.P.H.	University of Missouri-Kansas City
Potchen, E. James	M.D.	Michigan State University
Pourmotabbed, Tayebah	Ph.D.	University of Tennessee Health Science Center
Prendergast, George C.	Ph.D.	Dupont Pharmaceutical Company, Glenolden Laboratory
Prochownik, Edward Victor	M.D., Ph.D.	Children's Hospital of Pittsburgh
Pruitt, Steven C.	Ph.D.	Roswell Park Cancer Institute
Quelle, Dawn E.	Ph.D.	University of Iowa College of Medicine

Peer Reviewer	Degree	Affiliation
Quraishi, Mohammed S.	Ph.D.	Executive Secretary
Rabinowich, Hannah	Ph.D.	University of Pittsburgh
Rafii, Shahin	M.D.	Cornell University Medical College
Rasenick, Mark M.	Ph.D.	University of Illinois at Chicago, College of Medicine
Raylman, Raymond R.	Ph.D.	West Virginia University
Raz, Avraham	Ph.D.	Wayne State University School of Medicine
Reddy, E. Premkumar	Ph.D.	Temple University School of Medicine, Fels Institute
Reddy, Kaladhar B.	Ph.D.	Wayne State University School of Medicine
Reisfeld, Ralph A.	Ph.D.	Scripps Research Institute
Revell, Linda		Breast Cancer Network
Reynolds, Albert B.	Ph.D.	Vanderbilt University
Richards, Sue L.	Ph.D.	Baylor College of Medicine
Richer-Mouchantat, Jennifer	Ph.D.	University of Colorado Health Sciences
Riese, David II	Ph.D.	Purdue School of Pharmacy and Pharmacological Sciences
Rillema, James A.	Ph.D.	Wayne State University School of Medicine
Roberts, Charles T., Jr.	Ph.D.	Oregon Health Sciences University
Robins, Diane M.	Ph.D.	University of Michigan Medical School
Robinson, Cynthia D.		Bridge Breast Center, Inc.
Rodeck, Ulrich	M.D., D.Sc.	Thomas Jefferson University, Kimmel Cancer Center
Rodgers, Charles H.	Ph.D.	Executive Secretary
Rodland, Karin D.	Ph.D.	Oregon Health Sciences University
Rodriguez, Nancy		Association of Puertorriquenos en Marcha, Inc.
Rohan, Thomas E.	M.D., Ph.D.	Albert Einstein College of Medicine
Roninson, Igor	Ph.D.	University of Illinois at Chicago
Rooney, Ellen C.		Susan G. Komen Breast Cancer Foundation
Rosenberg, Anne L.	M.D.	Thomas Jefferson Medical College

Peer Reviewer	Degree	Affiliation
Rosenberg, Carol L.	M.D.	Boston University Medical Center
Ross, Jeffrey	M.D.	University of Wisconsin, McArdle Laboratory
Roy, Deodutta	Ph.D.	University of Alabama at Birmingham
Rui, Hallgeir	M.D., Ph.D.	Uniformed Services University Health Science Center
Russo, Irma H.	M.D.	Fox Chase Cancer Center, Breast Cancer Research Laboratory
Russo, Jose	M.D.	Fox Chase Cancer Center
Ruth, Sally		American Cancer Society
Saad, Cynthia A.		Palmetto Health South Carolina Cancer Center
Sabol, John M.	Ph.D.	General Electric Medical Systems, Global Applied Sciences Lab
Sadar, Marianne D.	Ph.D.	British Columbia Cancer Agency
Santamaria, Elena T.		Northside Hospital
Sarkar, Fazul H.	Ph.D.	Wayne State University School of Medicine
Sartor, Carolyn I.	M.D.	University of North Carolina School of Medicine
Sato, Taka-Aki	Ph.D.	Columbia University
Savior, Verbena		Saint Vincent Hospital and Health Center
Schiff, Helen		SHARE
Schneider, Barbara G.	Ph.D.	Louisiana State University Health Sciences Center
Schneider, Nancy K.		American Cancer Society
Schultz, Roger A.	Ph.D.	University of Texas Southwestern Medical Center, McDermott Center for Human Growth/Development
Secrist, John A. III	Ph.D.	Southern Research Institute
Sedivy, John Michael	Ph.D.	Brown University
Seed, Brian		Massachusetts General Hospital
Segall, Jeffrey E.	Ph.D.	Albert Einstein College of Medicine
Sell, Christian	Ph.D.	Lankenau Medical Research Institute
Sens, Donald A.	Ph.D.	University of West Virginia
Shaffer, Kitt	M.D., Ph.D.	Dana Farber Cancer Institute

Peer Reviewer	Degree	Affiliation
Shaw, Leslie M.	Ph.D.	Beth Israel Deaconess Medical Center
Shen, Zhiyuan	Ph.D.	University of New Mexico School of Medicine
Shertzer, Howard G.	Ph.D.	University of Cincinnati Medical Center, Center for Environmental Genetics
Shi, YuFang	D.V.M., Ph.D.	American Red Cross
Shinn, Eileen Huh	Ph.D.	University of Texas
Shiu, Almon S.	Ph.D.	University of Texas, M.D. Anderson Cancer Center
Shore, Scott K.	Ph.D.	Temple University School of Medicine, Fels Institute
Siegal, Gene Philip	M.D., Ph.D.	University of Alabama at Birmingham
Simpkins, Henry	M.D., Ph.D.	Temple University
Singh, Karan P.	Ph.D.	University of North Texas Health Science Center
Sixbey, John W.	M.D.	Louisiana State University Health Science Center
Sloboda, Walter	M.A.	Executive Secretary
Smith, Allen N.	M.S.	Executive Secretary
Smith, Carolyn Louise	Ph.D.	Baylor College of Medicine
Smith, David I.	Ph.D.	Mayo Clinic and Foundation
Smith, Eva D.		Oncology Nursing Society
Snow-Rosander, Judith L.		Janana Chiefs Conference
Spencer, Sharon	M.D.	University of Alabama at Birmingham
Spinner-Banks, Valeria		Mt. Mary College
Splinter, Robert	Ph.D.	Carolinas Medical Center, Laser and Applied Technologies Laboratory
Sposto, Richard	Ph.D.	University of Southern California, Keck School of Medicine
Stanfield, Robyn L.	Ph.D.	The Scripps Research Institute
Stearns, Mark E.	Ph.D.	MCP Hahnemann University
Stein, Roland W.	Ph.D., M.A.	Vanderbilt University Medical School
Stevens, Nancy A.		Breast Cancer Network
Stiles, Horace M.	D.D.S., Ph.D., M.P.H.	Executive Secretary

Peer Reviewer	Degree	Affiliation
Stopeck, Alison T.	M.D.	Arizona Cancer Center
Storkus, Walter J.	Ph.D.	University of Pittsburgh School of Medicine
Strong, Theresa V.	Ph.D.	University of Alabama at Birmingham
Sullivan, Daniel M.	M.D.	University of Southern Florida
Sun, LuZhe	Ph.D.	University of Texas Health Science Center
Sylvester, Diane M.	Ph.D.	Mitretek Systems
Tainsky, Michael A.	Ph.D.	Barbara Ann Karmanos Cancer Institute
Talmadge, James E.	Ph.D.	University of Nebraska Medical Center
Taneja, Reshma	Ph.D.	Mount Sinai School of Medicine
Tang, Careen K.	Ph.D.	Georgetown University Medical Center, Lombardi Cancer Center
Tansey, William P.	Ph.D.	Cold Spring Harbor Laboratory
Telang, Nitin T.	Ph.D.	Rockefeller University, Strang Cancer Research Laboratory
Tervalon, Adrienne C.		Louisiana Breast Cancer Task Force
Tew, Kenneth D.	Ph.D.	Fox Chase Cancer Center
Thomas, Kelwyn H.	Ph.D.	Morehouse School of Medicine
Thomas, M. Albert	Ph.D.	University of California, Los Angeles School of Medicine
Thompson, Linda F.	Ph.D.	Oklahoma Medical Research Foundation
Tice, Patricia		After Breast Cancer Support Group
Toole, Bryan P.	Ph.D.	Tufts Medical School
Troisi, Catherine L.	Ph.D.	University of Texas School of Public Health
Tsui, Benjamin Ming Wah	Ph.D.	University of North Carolina at Chapel Hill
Tull-Brown, Shelly		American Cancer Society
Tuszynski, George P.	Ph.D.	MCP Hahnemann University
Umbreit, Jay N.	M.D., Ph.D.	University of South Alabama
Van Den Berg, Carla L.	Pharm.D.	University of Colorado Health Sciences Center, School of Pharmacy
Varia, Mahesh A.	M.D.	University of North Carolina School of Medicine

Peer Reviewer	Degree	Affiliation
Vegotsky, Allen	Ph.D.	Executive Secretary
Velasquez, Merry Jo	Ph.D.	University of Minnesota at Duluth
Velicer, Wayne F.	Ph.D.	University of Rhode Island, Cancer Prevention Research Center
Vishwanatha, Jamboor K.	Ph.D.	University of Nebraska Medical Center
Wabl, Matthias	Ph.D.	University of California, San Francisco
Walker, Gayl S.		American Cancer Society
Walker, Larry A.	Ph.D.	University of Mississippi, National Center Natural Products Research
Walsh, Sandra A.		Y-ME of Davis
Walters, Kathryn E.		Community Breast Health Project
Waner, Joseph L.	Ph.D.	Children's Hospital of Oklahoma
Ward, Peter A.	M.D.	University of Michigan Medical School
Waring, Patricia Y.		BLOOMERS
Wasserman, Linda	M.D., Ph.D.	University of California, San Diego
Waterman, Marian L.	Ph.D.	University of California, Irvine
Watson, Cheryl S.	Ph.D.	University of Texas Medical Branch
Weber, Georg F.	M.D., Ph.D.	Tufts University Medical School
Wei, Wei-Zen	Ph.D.	Karmanos Cancer Institute
Weigel, Nancy L.	Ph.D.	Baylor College of Medicine
Weigel, Ronald J.	M.D., Ph.D.	Stanford University
Weis, John Haynes	Ph.D.	University of Utah School of Medicine
Weissleder, Ralph	M.D., Ph.D.	Massachusetts General Hospital, Center for Molecular Imaging
Weissman, Bernard E.	Ph.D.	University of North Carolina at Chapel Hill
Welch, Danny R.	Ph.D.	Pennsylvania State University, Jake Gittlen Cancer Research Institute
Wendell, Douglas L.	Ph.D.	Oakland University
Wheelock, Margaret J.	Ph.D.	University of Nebraska Medical Center, Eppley Cancer Center
Whitmer, Kyra Riegler	Ph.D.	University of Cincinnati

Peer Reviewer	Degree	Affiliation
Widlanski, Theodore S.	Ph.D.	Indiana University
Wiersma, Dorothy		Grand Rapids Coalition for Breast Health
Wiest, Jonathan S.	Ph.D.	University of Cincinnati
Wiley, Elizabeth L.	M.D.	Northwestern University
Williams, Mark B.	Ph.D.	University of Virginia Health Sciences Center
Williams, Sara S.		Chapel Hill Breast Cancer Support Group
Wilson, Brian C.	Ph.D.	University of Toronto, Ontario Cancer Institute
Wilson, Diane B.	Ed.D., R.D.	Virginia Commonwealth University
Windle, Jolene J.	Ph.D.	Massey Cancer Center
Woloschak, Gayle E.	Ph.D.	Argonne National Laboratory
Wood, F. Edward, Jr.	Ph.D.	Executive Secretary
Worsham, Maria J.	Ph.D.	Henry Ford Health System
Xiao, Lei	Ph.D.	University of Florida
Xu, Xiangxi (Michael)	Ph.D.	Fox Chase Cancer Center
Yalowich, Jack C.	Ph.D.	University of Pittsburgh School of Medicine
Yang, Lily	M.D., Ph.D.	Emory University School of Medicine
Yang, Yu-Chung	Ph.D.	Case Western Reserve University
Yee, Douglas	M.D.	University of Minnesota Cancer Center
Yen, Andrew	Ph.D.	Cornell University
Young, Jackie		Asian/Pacific Islander National Cancer Survivors Network
Yu, Hua	Ph.D.	University of South Florida, H. Lee Moffitt Cancer Center
Yue, Wei	Ph.D.	University of Virginia
Zahnow, Cynthia A.	Ph.D.	Johns Hopkins University, Bunting-Blaustein Cancer Center
Zajac, Sally J.		Usana Health Sciences
Zander, Dani S.	M.D.	University of Florida College of Medicine
Zebovitz, Eugene	Ph.D.	Executive Secretary

Peer Reviewer	Degree	Affiliation
Zhang, Hui	Ph.D.	Yale University School of Medicine
Zhang, Jian-Ting	Ph.D.	Indiana University School of Medicine
Zhang, Ming	Ph.D.	Baylor College of Medicine
Zhang, Xiao-Kun	Ph.D.	Burnham Institute
Zimmer, Stephen G.	Ph.D.	University of Kentucky Medical Center
Zimmerman, Eugene M.	Ph.D.	Executive Secretary
Zubairi, Yameen	Ph.D.	Executive Secretary

**Fiscal Year 2001 Breast Cancer Research Program
Integration Panel Members**

IP Member	Degree	Institution/Affiliation
Slamon, Dennis (Chair)	M.D., Ph.D.	University of California, Los Angeles
Barker, Anna D.	Ph.D.	BIO-NOVA, Inc.
Berg, Wendie A.	Ph.D.	University Imaging Center, LLC
Bernstein, Leslie	Ph.D.	University of Southern California
Bresnick, Edward	M.D.	Dartmouth Medical School
Disis, Mary Lenora	M.D.	University of Washington
Fuchs, Henry J.	M.D.	IntraBiotics Pharmaceuticals, Inc.
Given, Barbara A.	Ph.D.	Michigan State University
Hait, William N.	M.D., Ph.D.	University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School
Hinestrosa, M. Carolina	M.A.	Nueva Vida
Jones, Peter (Incoming FY02 IP Member)	Ph.D., D.Sc.	University of Southern California
Kolonel, Laurence N.	M.D., Ph.D.	University of Hawaii
Kushi, Larry	Sc.D.	Columbia University
Lythcott, Ngina	Dr.P.H.	Columbia University
Matrisian, Lynn M. (Chair-Elect)	Ph.D.	Vanderbilt University School of Medicine
Medina, Daniel	Ph.D.	Baylor College of Medicine
Recht, Abram	M.D.	Beth Israel Deaconess Medical Center
Redd, William H.	Ph.D.	Mt. Sinai – New York University Medical Center
Rosso, Rosemary	J.D.	Greater Baltimore/Washington Breast Cancer Group
Sledge, George W., Jr.	M.D.	Indiana University School of Medicine
Steeg, Patricia S.	Ph.D.	National Cancer Institute
Visco, Frances M. (Chair- Emeritus)	J.D.	National Breast Cancer Coalition
Wahl, Geoffrey	Ph.D.	The Salk Institute

**Fiscal Year 2001 Breast Cancer Research Program
Ad Hoc Programmatic Reviewers**

IP Member	Degree	Institution/Affiliation
Ali-Osman, Francis	D.Sc.	University of Texas, M.D. Anderson Cancer Center
Bedi, Atul	M.D.	Johns Hopkins Oncology Center
Chase, Diane		National Breast Cancer Coalition
Cleveland, John	Ph.D	St. Jude's Children's Research Hospital
Colvin, O. Michael	M.D.	Duke University Medical Center
Green, Bettye		National Breast Cancer Coalition
Greene, Geoffrey	Ph.D.	University of Chicago
McCarthy, Marlene		Rhode Island Breast Cancer Coalition
Muschel, Ruth	M.D., Ph.D.	University of Pennsylvania School of Medicine
Noss, Karin		National Breast Cancer Coalition
Plewes, Donald	Ph.D.	Sunnybrook and Women's College Health Science Center
Ryan, Nancy		New Hampshire Breast Cancer Coalition
Stein, Janet	Ph.D.	University of Massachusetts Medical School
Sukumar, Saraswati	Ph.D.	Johns Hopkins Oncology Center
Tlsty, Thea	Ph.D.	University of California, San Francisco Comprehensive Cancer Center
Vonderhaar, Barbara	Ph.D.	National Cancer Institute
Winningham, Rick		Advanced Medicine
Yaker, Alice	J.D.	SHARE

Glossary of Terms

Breast Cancer Center of Excellence Awards: The new 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.

Career Development Awards: Career Development Awards are designed to encourage (1) scientists or physicians who have postdoctoral training, but are not yet established investigators, to pursue a breast cancer-related research career, as well as (2) established scientists or research physicians who are currently working in areas other than breast cancer to shift their focus to breast cancer research. For the purpose of this program, a Career Development Award is intended for an individual who has his/her own, independent program of research; is within 6 years of postdoctoral, residency, fellowship, or equivalent training; and holds a position as an Assistant Professor or equivalent.

Clinical Bridge Awards: The intent of this award is to sponsor novel research that can ultimately lead to a clinical trial and new translational paradigms for the prevention, detection, diagnosis, and/or treatment of breast cancer. Clinical Bridge Awards are intended to support critical, hypothesis-driven research projects that will have clinical applications during or shortly after the completion of the funding period. Preliminary data are required to support the rationale for the proposed studies.

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. The FY01 CTR Awards only support projects in the areas of chemoprevention and therapeutics. CTR Awards support projects 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, along with a plan to conduct a prospective clinical trial or study during the course of the award.

Collaborative-Clinical Translational Research Awards: The goals of this award mechanism are to (1) support the infrastructure costs (personnel) required to develop new consortium models that include academic centers, community-based oncology practices, and the private sector for the express purpose of performing clinical trials; and (2) test new agents or technologies to accelerate the eradication of breast cancer. Through new consortium models, Collaborative-Clinical Translational Research Awards are intended to enhance patient participation and facilitate the performance of well-designed clinical trials to evaluate promising drugs and technologies for the early detection, treatment, and prevention of breast cancer.

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 a collaborating institution with established investigators in breast cancer research for the purpose of developing a training program to increase the number of HBCU/MI investigators focused on breast cancer research. 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. 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 should have a high probability of revealing new avenues of investigation. Idea Awards do not require preliminary or pilot data, but 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 private sectors with the funding and freedom to pursue creative, potentially breakthrough research that could ultimately accelerate the eradication of breast cancer. The primary criteria 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.

Postdoctoral Traineeship Awards: The intent of Postdoctoral Traineeship Awards is to enable recent doctoral or medical degree graduates with limited postdoctoral experience (i.e., less than 5 years) to either extend ongoing research related to breast cancer or broaden the scope of their research to include work relevant to breast cancer under the guidance of a designated mentor. Eligible applicants should have been in the laboratory in which this research is to be performed no more than 2 years at the time of submission. Unlike previous Breast Cancer Research Program Announcements, for fiscal year 2001 there is no separate mechanism or review criteria for Clinical Translational Research Postdoctoral Fellowship Awards; however, clinically oriented physicians who wish to undertake clinical translational research in breast cancer are encouraged to submit Postdoctoral Traineeship Award proposals. The research focus of Postdoctoral Traineeships should address an issue relevant to breast cancer biology, prevention, detection, diagnosis, and/or therapy. The overall goal of Postdoctoral Traineeship Awards is to prepare individuals for a career in breast cancer research.

Predocctoral Traineeship Awards: The intent of Predocctoral Traineeship Awards is to support promising graduate students studying breast cancer under the guidance of a designated mentor. The overall goal of Predocctoral 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.

Undergraduate Summer Training Program Awards: The intent of this award is to establish summer breast cancer training programs that will provide meaningful research experiences for undergraduate students. Each program will support internships lasting 8-12 weeks for 2-8 students. A goal of the Undergraduate Summer Training Program Award is to attract talented students to careers that focus on breast cancer research by providing educational and training opportunities at an important career decision-making point.