



Department of Defense

*Breast Cancer
Research Program*

*1999 Awards Book
September 2000*

Headquarters, U.S. Army Medical Research and Materiel Command
MCMR-PLF, 1077 Patchel Street
Fort Detrick, Maryland 21702-5024



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INTRODUCTION

The U.S. Army Medical Research and Materiel Command is pleased to present the award list of funded projects for the fiscal year 1999 (FY99) Breast Cancer Research Program. Award negotiations were completed on September 30, 2000. 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 three categories: (1) Research Awards, (2) Infrastructure Awards, and (3) Training/Recruitment Awards.

Congressional direction for FY99 specified \$135 million for breast cancer research. Following the receipt of funds, a programmatic strategy was developed, proposals were solicited and evaluated, awards were selected, and contract negotiations were completed. A total of 484 awards was made.

The Research award category consists of Concept Awards, Idea Awards and Clinical Translational Research (CTR) Awards. The intent of the Concept Awards is to provide funding for 1 year for innovative concepts or theories that could give rise to testable hypotheses. The intent of Idea Awards is to stimulate and reward creative research ideas that may be viewed as speculative, but have the potential for high payoff. CTR Awards are intended to support projects 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 Infrastructure award category consists of Collaborative-CTR (C-CTR) Awards. 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 Training/Recruitment award category includes Predoctoral Traineeship Awards, Postdoctoral Traineeship Awards, Career Development Awards (CDAs), Institutional Training Grants (ITGs), CTR Fellowship Awards, and CTR CDAs. Predoctoral Traineeship Awards are direct individual awards to promising graduate students studying breast cancer under the guidance of a designated mentor. Postdoctoral Traineeship Awards should enable recent doctoral degree graduates with limited postdoctoral experience to gain additional experience in breast cancer research. CDAs are intended to free scientists at the Assistant Professor (or equivalent) level of academic responsibilities to allow them additional time to pursue breast cancer research. ITGs are intended to encourage the initiation of new predoctoral and/or postdoctoral training programs in breast cancer research. CTR Fellowship Awards and CDAs should enhance the education of individuals who wish to pursue a career in breast cancer clinical translational research. Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Focused Training Awards and HBCU/MI Partnership Training Awards are targeted training opportunities for investigators at HBCU/MIs.

FY99 Breast Cancer Research Program

TRAINING/RECRUITMENT AWARDS

FY99 Breast Cancer Research Program Predoctoral Traineeship Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990911	Abbott	Andrew	Texas Southwestern Medical Center, University of, Dallas	\$65,739	An Investigation of Breast Tumor Vasculature Using Magnetic Resonance Microscopy
BC990402	Ackler	Scott L.	Georgetown University	\$66,000	Characterization of the PKB/AKT Pathway in the Role of Tumorigenesis and Transformation of MCF10A Human Mammary Epithelial Cells
BC990254	Ariazi	Jennifer L.	Wisconsin, University of, Madison	\$66,000	Mechanisms Underlying the Increased Susceptibility of the Immature Mammary Gland to Selected Carcinogens
BC990928	Bai	Xuefang	Duke University Medical Center	\$66,000	Cloning and Characterization of the Receptor for TPF (Tumor Promoting Factor), A Novel Angiogenic Factor
BC991260	Beeman	Neal E.	Colorado Health Sciences Center, University of	\$66,000	Role of the Adherens Junction Protein Fascin in the Regulation of Tight Junction Permeability in the Mouse Mammary Gland
BC990861	Borton	Anita	Duke University Medical Center	\$66,000	The Role of Transforming Growth Factor Beta and Its Downstream Signaling Effector, SMAD 3, in Breast Cancer Bone Metastasis
BC990874	Boxer	Robert B.	Pennsylvania, University of	\$66,000	Role of Murine BRCA1 Protein Interactions in DNA Repair
BC991212	Brown	William M.	New Mexico, University of	\$67,026	Structure-Based Design of 17(beta)-Hydroxysteroid Dehydrogenase Inhibitors
BC990900	Bussell	Stacey A.	Baylor College of Medicine	\$66,000	The Role of β -Catenin in Mammary Gland Development and Breast Cancer
BC990679	Calero	Monica	Cornell University, Ithaca	\$66,000	Direct Effects of Folate Metabolism on Gene Expression in Metastatic Breast Cancer
BC991110	Chan	Richard	McMaster University	\$64,840	In Vivo Structure-Function Studies on the Precise Role of ErbB-2 Signaling in Mammary Gland Development
BC991021	Chappell	Andrew S.	Baylor College of Medicine	\$66,539	Functional Characterization of the Yeast Telomerase Holoenzyme

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990991	Chen	Zhui	Duke University Medical Center	\$66,000	K-Ras Connection to Microtubules: A Potential New Target for Anticancer Drug Development
BC990206	Clay	Carl E.	Wake Forest University School of Medicine	\$62,787	A Potential Therapeutic Role of J Series Prostaglandins in PPAR γ -Mediated Treatment of Breast Cancer
BC990532	Deck	Jason A.	New Mexico, University of	\$66,571	Synthesis of Selective Inhibitors of 17(beta)-Hydroxysteroid Dehydrogenase
BC990857	Dennis	Andrew P.	Baylor College of Medicine	\$66,000	Characterization of a Novel Nuclear Hormone Receptor Coactivator, Uba3, and Its Function in Breast Cancer
BC990026	Donovan	Jeffrey C.	Sunnybrook and Women's College Health Science Centre	\$66,690	The Contribution of p27(kip1) Regulation to Tamoxifen Resistance
BC991103	Eakin	Guy S.	M. D. Anderson Cancer Center, University of Texas	\$65,988	Functional Characterization of the Murine Homologue of PLAB, a Novel TGF- β Member, in Placental and Mammary Tissues
BC990622	Emberley	Ethan D.	Manitoba, University of	\$58,908	The Role of S100A7/RanBPM Interaction in Human Breast Cancer
BC990720	Faupel-Badger	Jessica M.	Mayo Clinic and Foundation, Rochester	\$68,159	p60 sErbB1: A Negative Regulator of EGF-Stimulated Breast Carcinoma Cell Growth
BC990865	Fordyce	Colleen A.	New Mexico, University of	\$66,000	Telomere DNA Content, Telomerase, and c-Myc Amplification in Breast Carcinoma
BC990574	Gabarra	Veronica	North Carolina, University of, Chapel Hill	\$66,000	FAK Signaling in the Acquisition of a Cancerous Phenotype in Breast Epithelial Cells
BC990561	Geistlinger	Timothy R.	California, University of, San Francisco	\$65,523	Evaluation of the Estrogen Receptor: Coactivator Interface as a Target for Breast Cancer Chemotherapeutic Drug Design
BC990657	Gross	Jeffrey M.	Duke University Medical Center	\$61,755	A Normal Epithelial-Mesenchymal Transition as a Model for Studying Metastatic Onset
BC990286	Herrell, Jr.	Roger W.	Georgetown University	\$66,000	Cross-Regulation of β -Catenin and Retinoid Signaling in Breast Cancer
BC990098	Hurst	Douglas R.	Florida State University	\$65,152	Targeting Breast Cancer Membrane Metalloproteinases

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990825	Hussey	Stephen L.	Pennsylvania State University	\$66,904	Novel Synthetic Antiestrogens That Block Nuclear Estrogen Receptor Function through Plasma Membrane Localization
BC990621	Hutchinson	John N.	McMaster University	\$40,862	The Role of Phosphatidylinositol 3'-OH Kinase Signaling in Mammary Tumorigenesis
BC990620	Ishizawar	Rumey C.	Virginia, University of	\$66,482	Functional and Structural Interaction between HER2/neu and c-Src in Human Breast Cancer
BC991017	Jackson	Doba D.	Toledo, University of	\$22,000	The Molecular Basis of Double-Strand DNA Break Repair: The Crystal Structure of the RAD52/RPA Complex
BC990530	Kadura	Sheila C.	Baylor College of Medicine	\$66,000	Identification and Characterization of Components of the Mitotic Spindle Checkpoint Pathway in Fission Yeast
BC990405	Kagan	Benjamin	Georgetown University	\$66,000	Growth Factor Regulation of an Angiogenic Factor, the Fibroblast Growth Factor-Binding Protein (FGF-BP), in Breast Cancer
BC990382	Kaup	Sahana S.	Georgetown University	\$44,000	Control of Expression of Insulin-Like Growth Factor II In Stromal Cells of Breast Cancer
BC990780	Kearney	Joseph B.	North Carolina, University of, Chapel Hill	\$66,858	Flt-1 (VEGFR-1) as an Angiogenic Inhibitor: Implications for a Novel Breast Cancer Therapy
BC990343	Kumbhani	Shilpa R.	Georgetown University	\$66,000	Altered Rho-Dependent Protein Trafficking in Breast Cancer Cells
BC990468	Landis	Mark	Harvard University	\$66,000	Kinase Independent Functions of Cyclin D1 Which Contribute to Its Oncogenic Potential in Vivo
BC990507	Leary	Daniel	Northwestern University	\$68,214	Identification and Characterization of a Perinucleolar Compartment-Associated Protein
BC990670	Lemrow	Shannon M.	Duke University Medical Center	\$66,500	Investigation of the Nongenomic Effects of Estrogen in Human Breast Cancer
BC990474	Lieu	Yen	Temple University	\$66,000	Role of c-myb in Breast Development and Cancer

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991226	Limp-Foster	Melissa M.	Indiana University, Indianapolis	\$66,000	DNA Base Excision Repair (BER) and Cancer Gene Therapy: Use of the Human N-Methylpurine DNA Glycosylase (MPG) to Sensitize Breast Cancer Cells to Low-Dose Chemotherapy
BC990809	Long	Brian R.	North Carolina, University of, Chapel Hill	\$67,000	The Use of Venezuelan Equine Encephalitis Replicons Encoding the Her-2/neu Tumor-Associated Antigen for the Prevention and Treatment of Breast Cancer
BC990597	Lopez-Diego	Rocio S.	Children's Hospital, Los Angeles	\$66,000	Identification of Oncogenes Cooperating in Murine Mammary Tumorigenesis
BC991020	MacCorkle	Rebecca A.	Baylor College of Medicine	\$66,000	The Role of c-Jun N-Terminal (JNK) in Proliferation and Apoptosis in Breast Cancer
BC990987	MacDonald	Mary T.	Kansas, University of, Lawrence	\$21,898	Synthesis, Conformational Analysis, and Biological Activity of Proposed Vitronectin Antagonists
BC991238	Mack	Vivian D.	Arizona, University of, Tucson	\$66,000	Effect of Tumor-Derived TGF- β on the Efficacy of Dendritic Cell Vaccines
BC991190	Meyer	Maria	Washington State University, Pullman	\$68,982	Pim-1, a Potential Participant in Breast Cancer
BC990449	Moody	Susan E.	Pennsylvania, University of	\$66,000	Mechanism of Regression of c-MYC-Induced Mammary Tumors in a Conditional Transgenic Model
BC990010	Naumov	George N.	Western Ontario, University of	\$63,745	The Role of Apoptosis in Metastatic Inefficiency of Breast Cancer
BC991051	Owen	Jason	Alabama, University of, Birmingham	\$61,519	Internet Support and Information for Women with Breast Cancer
BC990506	Parrish	Damon A.	Toledo, University of	\$66,000	Measurement of the Electron Density Distribution of Estrogens – A First Step to Advanced Drug Design
BC990977	Pennock	Erin C.	Baylor College of Medicine	\$66,539	Identification of New Genes That Regulate Telomerase and Telomere Length in Budding Yeast
BC990842	Ponder	Rebecca G.	Baylor College of Medicine	\$66,539	Mechanism of Mutation in Nondividing Cells

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990357	Powers	Ciaran J.	Georgetown University	\$66,000	Pleiotrophin Signaling through PTNR in Breast Cancer
BC990853	Ranatunga	Wasantha K.	Toledo, University of	\$66,000	Towards an Atomic Understanding of Double-Strand Break Repair: Crystal Structure of Human RAD52 Protein
BC990990	Randolph	Whitney M.	Texas Medical Branch, University of, Galveston	\$33,195	Evaluating the Effectiveness of Screening Mammography in Women from Older and Disadvantaged Populations
BC990822	Reiff	Emily A.	Kansas, University of, Lawrence	\$66,985	Construction of Affinity Probes to Study the Epithilone Binding Site on Tubulin
BC990754	Riedel	Claudia	Albert Einstein College of Medicine of Yeshiva University	\$67,298	Regulation of I- Transport in Breast Cancer Cell Lines
BC990662	Rust	William L.	Nevada, University of, Las Vegas	\$66,000	Elucidation of Pertussis Toxin-Sensitive Migration Signaling in Human Breast Cancer Cells
BC991179	Sargiannidou	Irene	Hahnemann University, Medical College of Pennsylvania	\$67,062	The Functional Significance of the CSVTCG-Specific Receptor in Breast Carcinoma Progression
BC990491	Sarkisian	Christopher J.	Pennsylvania, University of	\$66,000	Impact of Disrupted BRCA2 Protein-Protein Interactions on DNA Repair and Tumorigenesis
BC990994	Sharan	Niki S.	McMaster University	\$64,338	Molecular Characterization of an Oncogenic erbB-2 Splice Variant
BC990403	Shivakumar	Latha	Texas Southwestern Medical Center, University of, Dallas	\$63,822	Characterization of a Putative Tumor Suppressor in Breast Cancer
BC990763	Snyder	Christopher M.	National Jewish Hospital and Research	\$66,000	Dissecting Immunogenicity of Monoclonal Antibodies
BC990519	Srikanchana	Rujirutana A.	Catholic University of America	\$65,988	Tactile Mapping of Breast Palpation for Diagnosis, Documentation, and Training
BC990602	Stroschein	Shannon L.	Lawrence Livermore National Laboratory	\$66,000	Inhibition of the TGF- β Tumor Suppression Pathway through Repression of SMAD-Dependent Transcription
BC991090	Tagliarino	Colleen	Case Western Reserve University	\$65,528	Exploiting an NQ01-Directed, Calpain-Mediated Apoptotic Pathway for Breast Cancer Therapy

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991253	Thiantanawat	Apinya	Maryland, University of, Baltimore	\$66,000	Molecular Mechanisms and Signaling Pathways Activating during Apoptosis Induced by Aromatase Inhibitors: Study in Breast Cancer Cells Lines and Nude Mouse Model
BC990871	Thoreson	Molly A.	Vanderbilt University	\$64,347	Role of p120ctn in Cadherin-Mediated Suppression of Breast Cancer Invasiveness
BC990021	Vantghem	Sharon A.	Western Ontario, University of	\$64,870	Breast Cancer Metastasis and Dormancy: The Role of Dietary Genistein
BC990370	Wagner	Eric J.	Duke University Medical Center	\$66,000	The Role of the Polypyrimidine Tract Binding Protein on CD44 Alternative Splicing in Breast Cancer
BC990321	Wang	Xiaomei	Temple University	\$66,000	p270 and the SWI/SNF Complex in Breast Cancer
BC990342	Welch	James N.	Georgetown University	\$44,000	Modulation of Epidermal Growth Factor Receptor Expression by Chemotherapeutic Agents in Breast Cancer Cell Lines
BC991160	Wyatt	Colby A.	Dartmouth College	\$66,000	Effect of a Single Nucleotide Polymorphism (SNP) on Breast Cancer Invasion
BC990626	Zhang	Hong	California, University of, San Francisco	\$65,829	Digital Breast Imaging Warehouse for Research and Clinical Decision Support

FY99 Breast Cancer Research Program Postdoctoral Traineeship Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991223	Adeyinka	Adewale	Manitoba, University of	\$132,970	Markers of Increased Risk in Preinvasive Breast Cancer
BC990926	Ali	Ambereen	Duke University Medical Center	\$145,000	Functional Characterization of TPF (Tumor-Promoting Factor), a Novel Angiogenic Factor in Breast Cancer Pathogenesis
BC990240	Atlas	Ella	Lawrence Berkeley National Laboratory	\$135,552	Role of Heregulin in the Neovascularization of Breast Carcinoma Cancer
BC991150	Badano	Aldo	Michigan, University of	\$143,876	Organic Polymer Light-Emitting Display for Digital Mammography
BC990250	Beum	Paul	Nebraska, University of	\$143,709	The Role of Ksr-Associated Kinases in Breast Cancer Signaling
BC991184	Bhowmick	Neil A.	Vanderbilt University	\$143,720	Regulated Transformation of Mammary Epithelial Cells by Transforming Growth Factor- β 1
BC990236	Brenneman	Mark A.	New Mexico, University of	\$143,932	BRCA2, Homologous Recombination, and Chromosome Stability in Human Cells
BC990760	Cao	Deliang	Yale University	\$143,126	p53 Regulation of Uridine Phosphorylase Activity, Pyrimidine Salvage Pathway, and Their Effects on Breast Cancer Therapy
BC991039	Chew	Teng Leong	Northwestern University	\$145,047	Regulation of Actin-Myosin Cytoskeletal Changes Involved in Cancer Metastasis
BC990331	Chiba	Natsuko	Brigham and Women's Hospital	\$144,540	Characterization of an S-Phase-Specific BRCA1-Containing Complex
BC990699	Chu	Zhiliang	Burnham Institute	\$144,000	Regulation of Apoptosis in Breast Cancer by NF-(κ)B and IAP Axis
BC990444	Dhar	Suman K.	Brigham and Women's Hospital	\$143,973	Mapping Critical DNA Sequence Elements Required for Amplification of erbB2 in Breast Cancer
BC991219	Dutertre	Martin	Baylor College of Medicine	\$144,537	Regulation of Estrogen Receptor-Coactivator Interactions by Phosphorylation and Antiestrogens

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991033	Ginger	Melanie R.	Baylor College of Medicine	\$144,539	Intermediate Molecular Biomarkers for the Protective Effect of Pregnancy against Breast Cancer
BC991079	Gong	Min	Rochester, University of	\$142,213	Functions of Estrogen Receptor α and β Subtypes in Ceramide-Induced Apoptosis Pathway in Breast Cancer Cells
BC990912	Grimm	Sandra L.	Baylor College of Medicine	\$144,000	Gene Targets of C-EBP β Involved in Mammary Gland Development and Breast Cancer
BC991114	Guo	Bin	Burnham Institute	\$144,000	Role of Nip3 in Apoptosis and Chemoresponses of Breast Cancer Cells
BC990628	Hagios	Carmen	Lawrence Berkeley National Laboratory	\$48,001	Hox Genes in Normal Breast Development and Breast Cancer
BC990397	Han	Suhua	Maryland, University of, Baltimore	\$144,000	Regulatory Control of Breast Tumor Cell Poly (ADP-Ribose) Polymerase
BC991076	Herbert	Brittney Shea	Texas Southwestern Medical Center, University of, Dallas	\$144,000	Do Telomerase Inhibitors Prevent the Spontaneous Immortalization of Breast Epithelial Cells from Individuals Predisposed to Breast Cancer?
BC990612	Huff	Janice	Nevada, University of, Las Vegas	\$143,889	The Role of Focal Adhesion Kinase and CAS in Integrin-Mediated Signaling on Distinct Forms of Laminin-5
BC991098	Hurley	Karen	Mount Sinai School of Medicine	\$143,785	Decision making regarding Prophylactic Mastectomy and Oophorectomy in Ashkenazi Jewish Women Seeking Genetic Testing for Inherited BRCA1/BRCA2 Mutations
BC990300	Imboden	Michael	Wisconsin, University of, Madison	\$144,000	Antibody-IL2 Fusion Protein against Metastatic Breast Tumor
BC991197	Jackson	Leslie F.	North Carolina, University of, Chapel Hill	\$144,256	Functional Analysis of ERBB3 in the Mammary Gland
BC990213	Jiang	Steve B.	Stanford University	\$83,296	A Multileaf Collimator for Modulated Electron Radiation Therapy for Breast Cancer
BC990404	Kauh	Eunkyung A.	Pennsylvania, University of	\$144,000	Role of a Novel Calcium-Calmodulin Kinase in Mammary Proliferation and Transformation

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991130	Kim	Seon Hee	Pittsburgh, University of	\$143,745	Breast Cancer Immunotherapy with Intratumoral Injection of Genetically Modified Dendritic Cells
BC990291	Knutson	Keith L.	Washington, University of	\$143,919	Ex Vivo Expansion of HER2-Specific T Cells for the Treatment of HER2-Overexpressing Breast Cancer
BC991053	Kolluri	Siva K.	Burnham Institute	\$144,000	Mechanisms of RAR β -Induced Growth Inhibition in Breast Cancer
BC990409	Kuo	Shu-Ru	New York, State University of, Buffalo	\$143,855	DNA Replication Arrest and DNA Damage Responses Induced by Alkylating Minor Groove Binders
BC990379	Lee	Sheau Ling	Georgetown University	\$135,088	Biological Functions of Matriptase, a Novel Trypsin-Like Protease, in Human Breast Cancer
BC990131	Li	Biao	New England Medical Center, Boston	\$143,889	Mechanisms of Mutant p53-Induced Immortalization of Human Mammary Epithelial Cells
BC990312	Li	Xiaolin	Duke University Medical Center	\$144,000	Corepressor-Associated Peptides (CAPs): Tools to Elucidate the Role of Corepressors as Regulators of Progesterone Receptor Transcriptional Activity
BC990488	Liao	Dezhong J.	Georgetown University	\$143,994	Mechanisms for c-myc-Induced Mouse Mammary Gland Carcinogenesis and for the Synergistic Role of TGF α in the Process
BC990489	Maer	Andreia	Pennsylvania, University of	\$134,358	Investigation of the Role of Transmembrane-Transmembrane Domain Interactions in Promoting ErbB Receptor Dimerization
BC990256	McGuffie	Eileen M.	South Carolina, Medical University of	\$143,355	Development of Triplex-Forming Oligonucleotides to Inhibit Expression of the c-myc Oncogene in Breast Cancer Cells
BC990737	Meighan	Mark A.	Missouri, University of, Columbia	\$143,445	Phage Fab Display Selection in Vitro and in Vivo: Novel Means to Identify New Breast Cancer Avid Compounds
BC990697	Miralem	Tihomir	Beth Israel Deaconess Medical Center, Boston	\$144,000	Biological Function of BRCA1 and Its Regulation by the Extracellular Matrix and PTEN in Breast Cancer

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990714	Morgan	Maria P.	Royal College of Surgeons in Ireland	\$144,000	Molecular Mechanisms of Calcium Hydroxyapatite Crystal-Induced Mitogenesis in Breast Cancer
BC990764	O'Reilly	Erin K.	Duke University Medical Center	\$141,000	A Unique Class of Topoisomerase Mutants That Are Hypersensitive to Multiple Antitumor Agents
BC990985	Onda	Masamitsu	Burnham Institute	\$144,000	Breast Cancer Susceptibility Through Microsatellite Mutations
BC990252	Pantschenko	Alexander G.	Connecticut Health Center, University of	\$144,000	The Role of Growth-Regulated Oncogene (GRO) Proteins in Human Breast Cancer Growth
BC990018	Pawlicki	Todd	Stanford University	\$94,628	Integrating Organ Motion and Setup Uncertainty into Optimization of Modulated Electron Beam Treatment of Breast Cancer
BC990972	Petrosino	Joseph F.	Baylor College of Medicine	\$137,199	Mechanisms of Mutation in Nondividing Cells
BC990832	Phelan	Catherine	Toronto, University of	\$144,160	Susceptibility Genes in Breast Cancer
BC990978	Richert	Monica M.	Colorado Health Sciences Center, University of	\$144,000	Mechanisms Underlying Constitutive Activation of Akt in Human Breast Cancer
BC990962	Ripple	Maureen O.	Dartmouth College	\$143,538	Survival Pathways and Apoptosis of Breast Cancer Cells as Targets for Therapeutic Modulation
BC990899	Sachdev	Deepali	Minnesota, University of, Twin Cities	\$144,021	Role of IRS-1 Phosphorylation in IGF-1 and IL-4 Signaling in Breast Cancer
BC990019	Saitoh	Noriko	Cold Spring Harbor Laboratory	\$151,803	Analysis of Altered Protein Components of Interchromatin Granule Clusters from Breast Cancer Cells
BC990929	Salomon	Christine	California, University of, San Diego	\$144,000	Production of Bryostatins for the Treatment of Breast Cancer
BC990427	Shillingford	Jonathan M.	Foundation for Advanced Education in the Sciences	\$115,744	The Role of the Tyrosine Kinase JAK2 in the Development and Progression of Breast Cancer
BC990778	Siepmann	Thomas J.	Utah, University of	\$144,000	Mechanistic Studies of Taxadiene and Abietadiene Synthases

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991239	Smith	Adrian P.	Scripps Research Institute	\$140,114	Breast Tumor Kinetics in Mice Overexpressing Cyclin E and Heterozygous for Tumor Suppressor p53 or Rb
BC991244	Strohmaier	Heimo M.	Scripps Research Institute	\$142,209	The Role of Deregulated Cyclin E Proteolysis in Breast Cancer Development
BC990046	Tamada	Koji	Mayo Clinic and Foundation, Rochester	\$143,430	Immunotherapeutic Potential of LIGHT, a Novel Molecule of the Tumor Necrosis Factor Superfamily, in Breast Cancer
BC990725	Tani	Taneli T.	Beth Israel Deaconess Medical Center, Boston	\$142,160	Laminin-10 and Its Receptors in Breast Carcinoma: Cooperation of $\alpha 6$, $\beta 4$, and $\alpha 3 \beta 1$ Integrin Laminin Receptors in Breast Carcinoma Invasion
BC990505	Tazebay	Uygar H.	Albert Einstein College of Medicine of Yeshiva University	\$144,000	Development of a Radioiodide Therapeutic Protocol for Breast Cancer
BC990785	Toba	Samuel	California, University of, San Francisco	\$96,000	Structure-Based Design of Potent and Selective Inhibitors for Stromelysin-1 and MT1-MMP
BC990380	Yang	Xiaowei	Johns Hopkins University, East Baltimore Campus	\$96,000	The Roles of Histone Deacetylase and DNA Methylation in Estrogen Receptor α Expression in Breast Cancer
BC990980	Zhong	Quin	Texas Health Science Center, University of, San Antonio	\$141,330	Involvement of BRCA2 BRC Repeats in RAD51-Mediated DNA Repair

**FY99 Breast Cancer Research Program
Career Development Awards**

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990885	Alberts	Arthur	Van Andel Research Institute	\$236,000	Investigating the Role of Small GTPase and Src Bridging Proteins in Breast Cancer Cell Responses to Growth Factors
BC990246	Drake	Christopher J.	South Carolina, Medical University of	\$229,500	The Role of Vasculogenesis in Breast Cancer
BC990477	Filardo	Edward J.	Rhode Island Hospital	\$210,241	Evaluation of GPR30, a Novel Estrogen Receptor, for Assessing Responsiveness to Antiestrogen Therapy
BC990372	Franke	Thomas F.	Columbia University	\$236,000	Role of Biologic Targets of Akt Kinases in Mammary Oncogenesis
BC991222	Hamaguchi	Masaaki	Cold Spring Harbor Laboratory	\$236,000	Cloning of Tumor Suppressor Genes in Breast Cancer
BC990834	Hannon	Gregory J.	Cold Spring Harbor Laboratory	\$236,000	Synthetic Lethality in Breast Cancer Cells: Genes Required for Tumor Cell Survival
BC990388	Hughes	Chanita A.	Georgetown University	\$229,164	Genetic Counseling for Breast Cancer Susceptibility in African American Women
BC991171	Jiang	Yulei	Chicago, University of	\$235,938	Computer-Aided Diagnosis of Digital Mammograms
BC991215	Li	Lihua	South Florida, University of	\$222,827	Robust Detection of Masses in Digitalized Mammograms
BC990625	Malafa	Mokenge P.	Southern Illinois University	\$232,464	Mechanism of VEGF Gene Regulation by Vitamin E in Breast Cancer
BC990283	Marassi	Francesca M.	Wistar Institute	\$236,000	NMR Structure Determination of the Mammary Tumor Protection Mat-8
BC991049	Orlowski	Robert	North Carolina, University of, Chapel Hill	\$232,622	The Proteasome as a Target for Breast Cancer Therapy
BC990783	Qin	Jun	Baylor College of Medicine	\$234,706	Biochemical Analysis of the BRCA2 Protein Complex
BC990790	Riese	David J.	Purdue University	\$200,358	Functional Analysis of the ErbB4 Receptor Tyrosine Kinase
BC990269	Sanderson	Maureen	South Carolina, Medical University of	\$236,000	Interrelationships of Prenatal and Postnatal Growth, Hormones, Diet, and Breast Cancer

Training/Recruitment Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991155	Tao	May L.	California, University of, Los Angeles	\$233,862	Impact of Treatment on Arm Morbidity in Breast Cancer Survivors
BC991209	Xu	Jianming	Baylor College of Medicine	\$233,593	A Role for the Coactivator, Amplified in Breast Cancer-1 (AIB1), in Mammary Gland Development and Breast Cancer
BC990509	Yeilding	Newman	Pennsylvania, University of	\$236,000	Analysis of the Mechanism of Differential Regulation of Tie2 by Angiopoietins-1 and -2

FY99 Breast Cancer Research Program Institutional Training Grant Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990220	Bissell	Mina	Lawrence Berkeley National Laboratory	\$528,553	Training in Mammary Gland Biology and Breast Cancer
BC990918	Colditz	Graham	Brigham and Women's Hospital	\$729,728	Training Grant in Epidemiology and Prevention of Breast Cancer
BC990849	Cowan	Kenneth H.	Nebraska, University of	\$799,975	Breast Cancer Training Program
BC991138	Edwards	Dean P.	Colorado Health Sciences Center, University of	\$751,712	Ph.D./Postdoctoral Training Program in Breast Cancer Research
BC990889	Jordan	Virgil	Northwestern University	\$799,838	Molecular Biology of Breast Neoplasia
BC990447	Kane	Susan E.	City of Hope Medical Center	\$799,323	Training Program in Breast Cancer Research
BC991234	Lamartiniere	Coral A.	Alabama, University of, Birmingham	\$574,693	Interdisciplinary Breast Cancer Training Program
BC990428	Lippman	Marc E.	Georgetown University	\$798,349	A Comprehensive Postdoctoral Training Program in Breast Cancer Biology
BC991166	McCorkle	Ruth	Yale University	\$749,432	Interdisciplinary Research Training in Breast Cancer
BC990363	Russo	Jose	Fox Chase Cancer Center	\$528,732	FCCC Institutional Breast Cancer Training Program (FCCC-IBCTP)
BC990467	Wang	Paul C.	Howard University	\$798,377	A Training Program in Breast Cancer Research Using NMR Techniques

**FY99 Breast Cancer Research Program
Historically Black Colleges and Universities/Minority Institutions (HBCU/MI)
Focused Training Awards**

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990755	Rosenzweig	Nitsa	Xavier University	\$150,500	Involvement of Reactive Oxygen Species in Breast Cancer Cells Development, Maintenance, and Death
BC990514	Sachdeva	Mandip S.	Florida A&M University	\$148,224	Reversal of Doxorubicin Resistance in Human Breast Adenocarcinoma (MCF-7) Cells by Liposomal Monensin

FY99 Breast Cancer Research Program

RESEARCH AWARDS

FY99 Breast Cancer Research Program Concept Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC996685	Adjei	Araba	Mayo Clinic and Foundation, Rochester	\$70,550	Role of Sulfation Pharmacogenetics in Breast Cancer Treatment with 2-Methoxyestradiol
BC996751	Aickin	Mikel	Kaiser Foundation Research Institute	\$79,000	Validation of Causal Analysis for Obtaining Intervention-Study Results from Nonintervention Studies
BC995060	Albino	Anthony	American Health Foundation	\$78,500	Effects of Altered BRCA1 and p53 on Breast Cancer Prognosis in African American Women
BC995541	Arnold	Rebecca	Emory University	\$76,500	Reactive Oxygen Is a Major Factor Regulating Cell Division and Angiogenesis in Breast Cancer
BC995078	Basilion	James	Massachusetts General Hospital	\$86,500	MR Imaging of Receptor Overexpression on Breast Cancers
BC996709	Beck	William	Illinois, University of, Chicago	\$74,597	Identification of Novel Inhibitory Peptides of Protein-Protein Interactions Involved in DNA Repair as Potential Drugs in Breast Cancer Treatment
BC995087	Benezra	Robert	Memorial Sloan-Kettering Cancer Center	\$83,250	Targeting Id to Inhibit the Vascularization of Breast Tumors
BC995815	Boote	Evan	Missouri, University of, Columbia	\$72,500	A Novel Method for Detection of Breast Microcalcifications Using Ultrasound – A Preliminary Study
BC996854	Brent	Gregory A.	California, University of, Los Angeles	\$63,000	Optimization of Retinoic Acid-Stimulated Radioiodine Uptake via the Sodium/Iodide Symporter (NIS) into Breast Cancer Xenografts
BC995099	Brodie	Steven	National Institutes of Health	\$50,000	Targeting Delivery of Chemotherapeutic Agents to Mammary Tumors
BC995101	Brooks	Stephen	New York, State University of, Buffalo	\$77,000	Can Labeled Human CD 34+ Lymphocytes Be Used to Identify Sites of Angiogenesis within Growing Tumors?
BC995120	Carraway	Kermit	Miami School of Medicine, University of	\$75,000	MUC4 Abrogation of Herceptin Responsiveness in Breast Cancer

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC995563	Casper	Robert	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	\$50,000	The Use of DNA Biosensors for Rapid Identification of BRCA1/2 Gene Mutations
BC996281	Chambers	Ann F.	Western Ontario, University of	\$68,300	Development of Animal Models for Studying How Timing of Surgery during the Menstrual Cycle Can Affect Breast Cancer Metastasis and Survival
BC995840	Chang	Esther	Georgetown University	\$78,000	Systemic Apoptin Gene Therapy for Chemo/Radio Sensitization of Breast Cancer
BC995134	Chen	Jie-Guang	Albert Einstein College of Medicine of Yeshiva University	\$83,750	Relationship between β -Tubulin Mutations and Taxol Resistance in Breast Cancer Cells
BC995847	Cheville	Andrea	Pennsylvania, University of	\$79,250	Sentinel Lymph Node Biopsy: Quantification of Lymphedema Risk Reduction
BC995148	Cristofanilli	Massimo	M.D. Anderson Cancer Center, University of Texas	\$75,000	Dielectrophoretic Manipulations for Microdiagnosis in Breast Cancer
BC995868	deFazio	Anna	Sydney, University of	\$60,959	Glutathione Peroxidase and Breast Cancer Susceptibility
BC995591	DeLeo	Albert	Pittsburgh, University of	\$75,000	p53 Immune Responses in Breast Cancer Patients: Assessment of CTL Recognizing the HLA-A2.1 Restricted, Wild-Type Sequence p53 264-272 Epitope
BC995879	Donahue	Henry	Pennsylvania State University	\$76,950	Gap Junctional Intercellular Communication and Breast Cancer Metastasis to Bone
BC995882	Douglas	Joanne	Alabama, University of, Birmingham	\$71,750	A Novel Strategy to Inhibit Osteolytic Bone Metastases of Breast Cancer
BC995894	Forsberg	Flemming	Thomas Jefferson University	\$79,500	Multipulse Ultrasound Contrast Imaging for Improved Breast Cancer Diagnosis
BC996327	Fotadar	Arun	Sidney Kimmel Cancer Center	\$91,250	A Novel Approach to Selectively Enhance Degradation of the myc Oncogene in Breast Cancer
BC996330	Gareau	Paula	John P. Robarts Research Institute	\$50,000	Imaging Angiogenesis in Vivo: Immunospecific Magnetic Resonance Imaging of Breast Tumors Using Antibody-Coated Magnetite Particles
BC995904	Gay	Carol	Pennsylvania State University	\$70,150	Directed Secretion by Bone Cells of a Factor That Attracts Breast Cancer Cells

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC995607	Godwin	Andrew	Fox Chase Cancer Center	\$86,375	Susceptibility to Breast Cancer in CHK2 Mutation Carriers
BC995208	Goodell	Margaret	Baylor College of Medicine	\$74,750	Purification of Mammary Gland Stem Cells
BC996714	Grant	Stephen	Pittsburgh, University of	\$68,969	Mutational Analysis of Genetic Instability in Cell Lines Established from BRCA1 and BRCA2 Carriers
BC995885	Groziak	Michael	SRI International	\$98,561	Boron Heterocycle High-Fidelity Estrogen Mimics as Novel Antiestrogens for the Treatment of Breast Cancer
BC995615	Heffelfinger	Sue	Cincinnati, University of	\$76,500	Leptin Regulation of Mammary Tumorigenesis
BC995237	Holden	Joseph	Utah, University of	\$74,750	Amplification of DNA Topoisomerase II and c-erbB2 in Human Breast Cancer
BC996307	Innes	Karen	Colorado Health Sciences Center, University of	\$75,500	Pre-eclampsia-Associated Hormonal Profiles and Reduced Breast Cancer Risk among Older Mothers
BC996861	Iozzo	Renato	Thomas Jefferson University	\$79,500	Decorin, a Novel Antitumor Agent That Blocks Breast Cancer Growth
BC996265	Jerry	D. J.	Massachusetts, University of, Amherst	\$76,750	Mapping Genetic Modifiers of Mammary Tumor Susceptibility in BALB/c-p53 ^{+/-} Mice
BC996945	Kane	Susan	City of Hope Medical Center	\$75,000	Role of the Steroid and Xenobiotic Receptor (SXR) in Drug-Resistant Breast Cancer
BC995264	Kanicki	Jerzy	Michigan, University of	\$75,750	Optimization of the Flat Panel Display Color and Color-Coding Methods for Improved Diagnostic Performance of Soft-Copy Digital Mammography
BC996397	Keyomarsi	Khandon	M.D. Anderson Cancer Center, University of Texas	\$75,000	Cyclin E as a Prognosticator for Node-Negative Stage I and Stage II Breast Cancers
BC995637	Kim	Hyeong-Reh	Wayne State University	\$74,500	TIMP-1 Regulation of ECM and Apoptosis
BC995027	Kinch	Michael	Purdue University	\$76,000	Differential Substrate Profile of the EphA2 Tyrosine Kinase in Nontransformed and Malignant Breast Epithelia

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC995275	Kleer	Celina	Michigan, University of	\$75,750	LIBC (Lost in Inflammatory Breast Cancer) Gene-Targeted Mice: A Novel Model to Develop and Test Gene-Targeted Therapies for Inflammatory Breast Cancer
BC995642	Kline-Schoder	Robert	Creare Inc.	\$162,500	MR Elastography System for Breast Cancer Detection
BC995968	Kretschmar	Marcus	Mount Sinai School of Medicine, New York	\$84,750	Analysis of Signaling Pathways Involved in Tumor-Promoting Functions of TGFbeta in Breast Cancer
BC996419	Latimer	Jean	Magee-Womens Hospital	\$76,000	Molecular Etiology of DNA Repair Deficiency in Novel Non-Tumor Adjacent and Tumor Cell Lines
BC996422	Lau	Joseph	Health Research Inc., Roswell Park Division, New York State Department of Health	\$79,527	Sialyltransferase in Breast Cancer
BC996882	Leatham	James G.	Applied Photonics	\$97,196	An Improved Bio-Optical Method for Tumor Detection and Classification
BC995983	Lee	Marion	California, University of, San Francisco	\$73,750	Traditional Chinese Medicine Models and Epidemiological Approaches in Breast Cancer Diagnosis, Treatment, and Progression
BC995988	Lee	Young	Maryland, University of, Baltimore	\$74,250	Pilot Trial of Local Injection of Human Chorionic Gonadotropin in Early Breast Cancer: Measurement of Apoptotic and Proliferative Index before and after Therapy
BC996431	Lenz	Jack	Albert Einstein College of Medicine of Yeshiva University	\$83,750	Does HERV-K Cause a Fraction of Human Breast Cancer?
BC996000	Liu	Yi-Hsin	Southern California, University of	\$57,500	Msx2 Plays a Central Role in Regulating Branching Morphogenesis during Mammary Development
BC996863	Lloyd	Alan	Texas, University of, Austin	\$75,000	Establishing a Role for Ecto-Phosphatases in Multidrug Resistance in Breast Cancer
BC995033	Longnecker	Richard	Northwestern University	\$73,500	Epstein-Barr Virus: A Role for a Tumorigenic Virus in the Etiology of Breast Cancer?

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC995312	Lu	Shi-Jian	Illinois, University of, Chicago	\$77,650	Failure in Acquisition of Angiogenic Capacity and Resistance to Mammary Carcinogenesis in Copenhagen Rat
BC995665	Lupu	Ruth	Lawrence Berkeley National Laboratory	\$83,185	Expression and Significance of CYR61 Expression in Breast Cancer Tumor Specimens
BC995315	Lydon	John	Baylor College of Medicine	\$74,750	Is the Regenerative Capacity of the Mammary Gland Contained within Those Mammary Cells That Express the Progesterone Receptor? Implications for Breast Cancer
BC996448	Mandelson	Margaret	Group Health Cooperative of Puget Sound	\$73,250	Markers of Breast Cancer Risk in Women with Benign Breast Disease
BC996021	Margolis	Robert	Commissariat a L'Energie Atomique	\$56,000	Isolation and Analysis of Tubulin Carboxypaptidase: A Chemotherapeutic Target Arising from Tubulin Tyrosine Ligase Suppression in Human Breast Tumors
BC995673	Matory	Yvedt	Brigham and Women's Hospital	\$84,750	Evaluation of a Mouse Model for Prophylactic Mastectomy in Mice Genetically Predisposed to Breast Cancer
BC996456	McBain	John	Dartmouth College	\$65,000	Bone-Restricted Survival of Breast Cancer Cells – Development of a Model System Using Normal-Marrow Stroma and Biopsy-Derived Cancer Cells
BC996459	McCurdy	Sheryl	Texas, University of, Houston Health Science Center	\$73,513	Medical Decision-Making about Breast Cancer among African-Americans: Evaluating the Roles of Beliefs, Knowledge, Medical Care Access, and Social Support
BC995035	Mertz	Janet	Wisconsin, University of, Madison	\$72,000	Estrogen-Related Receptor Beta in Breast Cancer and Estrogen Responsiveness
BC996050	Mooney	Kathleen H.	Utah, University of	\$74,750	Telephone-Linked Care: Enhancing Self-Care for Women with Breast Cancer
BC996475	Mukhopadhyay	Debabrata	Beth Israel Deaconess Medical Center, Boston	\$87,000	Blocking Vascular Hyperpermeability, the Initiation Step of Tumor Angiogenesis, Inhibits Mammary Tumor Growth and Metastasis

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC995354	Nagle	Dale	Mississippi, University of	\$72,000	Discovery of New Drugs That Target Peroxisomal Proliferator-Activated Receptor-Gamma (PPAR-gamma) for the Treatment of Breast Tumors
BC995360	Ntziachristos	Vasilis	Massachusetts General Hospital	\$86,500	Molecular Diffuse Optical Tomography for Early Breast Cancer Detection and Characterization
BC995694	Oesterreich	Steffi	Baylor College of Medicine	\$74,750	Rapid Screen for Tumor-Suppressor Genes on Chromosome 19p13
BC995364	Ormandy	Christopher J.	Garvan Institute of Medical Research	\$50,000	Discovery of Novel Mammary Developmental and Cancer Genes Using Recessive ENU Mutagenesis
BC996682	Pati	Debananda	Baylor College of Medicine	\$84,100	Role of Sister Chromatid Cohesion in the Apoptotic Response of Normal and Malignant Mammary Cells with Known Aneuploidy
BC995375	Pauli	Bendicht	Cornell University, Ithaca	\$79,500	The Use of Aptamers in Breast Cancer Antimetastasis Therapy
BC995382	Peterson	Blake	Pennsylvania State University	\$70,150	Discovery of Peptidomimetic Antagonists of Estrogen Receptor-Coactivator Interactions: A Novel Strategy to Combat Tamoxifen Drug Resistance
BC995391	Poindexter	Nancy	M.D. Anderson Cancer Center, University of Texas,	\$75,000	Immune Response in Breast Cancer Sentinel Nodes
BC996519	Purohit	Aruna	Massachusetts Medical Center, University of	\$78,000	Centrosome Defects as a Contributor to Genetic Instability and Glandular Disorganization in Breast Tumor Progression
BC996088	Raisch	Kevin P.	Alabama, University of, Birmingham	\$71,750	EGFR-Specific Single-Chain Antibody-Taxol Conjugate for Radiosensitizing Breast Carcinomas
BC996867	Ramaswamy	Anbazhagan	Johns Hopkins University, East Baltimore Campus	\$81,950	High-Throughput Analysis of the Role of Genomic Methylation in Breast Cancer by Methylation-Sensitive Comparative Genomic Hybridization
BC995407	Reinholz	Monica	Mayo Clinic and Foundation, Rochester	\$69,336	Molecular Detection of Circulating Cancer Cells for Early Diagnosis of Breast Cancer

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC996542	Ruf	Wolfram	Scripps Research Institute	\$88,650	Gene Profiling of Protease-Induced Genes in Breast Cancer
BC996103	Russo	Sandra	New York, State University of, Stony Brook	\$75,250	Is a Greater-Than 12-Month Mammography Follow-Up Interval in Women Aged 40-49 Leading to Diagnosis of Larger, More Aggressive Tumors Requiring More Therapy?
BC995715	Sandhu	Jasbir	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	\$50,000	Vascular Growth Factor Receptors as a Target for Auger Electron Radiotherapy of Breast Cancer
BC996563	Sgouros	George	Memorial Sloan-Kettering Cancer Center	\$83,250	Targeted Delivery of Alpha Particle-Emitting Radionuclides and Their Alpha-Emitting Progeny: Breast Cancer Therapy Using Liposome-Encapsulated Alpha-Emitters
BC995440	Shepherd	John	California, University of, San Francisco	\$73,750	Is Breast Densitometry a Measure of Breast Cancer Risk?
BC996127	Shokolenko	Inna	South Alabama, University of	\$68,245	Altering Cell Survival by Modulating Levels of Mitochondrial DNA Repair Enzymes
BC996136	Smith	Leia	Colorado State University	\$70,700	Identification of Novel Tumor-Suppressor Genes in Breast Cancer Using Gene-Trapping Technique
BC996138	Sobel	Eugene	Southern California, University of	\$81,750	Low Melatonin Production during Adulthood: A Possible Genetic Susceptibility Factor for Breast Cancer Incidence
BC996143	Spengler	Mary	Health Research Inc., Roswell Park Division, New York State Department of Health	\$75,484	HCMV IE72 Control Over PML, the Human Breast Cancer Tumor-Suppressor
BC996602	Szallasi	Zoltan	Henry M. Jackson Foundation	\$74,100	cDNA Microarray-Based Comparative Gene Expression Analysis of Primary Breast Tumors versus in Vitro Transformed Neoplastic Breast Epithelium
BC996163	Tavassoli	Fattaneh	Armed Forces Institute of Pathology	\$54,000	Concurrent and Independent Genetic Alterations in Epithelial and Stromal Components of Breast Neoplasms: Implications for Tumor Development and Progression

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC996167	Teas	Jane	South Carolina, University of	\$62,500	Do the Effects of Exercise on Breast Cancer Prevention Vary with Environment?
BC995755	Valdimarsdottir	Heiddis	Mount Sinai School of Medicine, New York	\$84,750	Development of the Harlem Witness Program for Educating Urban African American Women about Genetic Testing for Breast Cancer
BC996827	Van Golen	Kenneth	Michigan, University of	\$74,683	The RhoC Transgenic Mouse as a Realistic Model of Inflammatory Breast Cancer
BC995490	Van Leeuwen	Flora	Netherlands Cancer Institute	\$50,000	Early Life Exposures and Risk of Breast Cancer: A Case-Control Study of Young, Affected Sister-Pairs without a Family History
BC996625	Vandre	Dale	Ohio State University	\$73,500	Inhibition of the Pin1 Prolyl Isomerase: A Novel Approach for DNA Checkpoint Abrogation in Breast Cancer Cell Lines
BC996197	Wagner	Kay-Uwe	Nebraska Medical Center, University of	\$75,500	Cloning of Mammary Stem Cells
BC995502	Watts	Colin	Garvan Institute of Medical Research	\$50,000	Evaluation of a Mammary Gland-Specific Plant Toxin as a Novel Breast Cancer Therapeutic
BC996634	Welsh	Joellen	Notre Dame, University of	\$74,500	Vitamin D Receptor and Mammary Tumorigenesis
BC995506	Whyne	Cari M.	Sunnybrook and Women's College Health Science Centre	\$65,000	A Novel Technique for Percutaneous Vertebroplasty in the Treatment of Metastatically Involved Vertebral Bodies
BC996765	Yang	Li-Xi	California Pacific Medical Center	\$77,850	Circumvention of Taxol-Resistance in Human Breast Cancers by Improved Water-Soluble Taxanes
BC996228	Yeung	Anthony T.	Institute for Cancer Research	\$86,375	Base Excision Repair Gene Mutations and Polymorphisms as a Potential Modifier of Breast Cancer Risk
BC996655	Young	Win-Jing	Rochester, University of	\$50,000	Rit42 is an Energy-Governor Molecule, Which Prevents Oversynthesis of ATP

FY99 Breast Cancer Research Program

Idea Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990150	Aboagye	Eric O.	Imperial College of Science, Technology, and Medicine	\$305,872	Imaging the Transformed Breast Phenotype with (Methyl-(11)C)choline)
BC990500	Ahsan	Habibul	Columbia University	\$414,688	Estrogen-Metabolism Genes and Breast Cancer: An Innovative Approach
BC990688	Andersen	Bogi	California, University of, San Diego	\$341,625	The Role of a LIM Only Factor, LMO-4, in Breast Cancer
BC991029	Anderson	Carl W.	Brookhaven National Laboratory	\$417,202	Differential Expression of DNA Double-Strand Break Repair Proteins in Breast Cells
BC990927	Ballangrud	Asa M.	Memorial Sloan-Kettering Cancer Center	\$361,375	Radiolabeled Herceptin to Increase Treatment Efficacy in Breast Cancer Patients with Low Tumor HER-2/neu Expression
BC990673	Band	Hamid	Brigham and Women's Hospital	\$387,717	Compartmentalized Signaling and Breast Cancer Cell Proliferation
BC990086	Bar-Shavit	Rachel	Hadassah Medical Center	\$258,750	Protease-Activated Receptors (PARs) in the Malignant Invasion Process
BC990959	Barsky	Sanford	California, University of, Los Angeles	\$344,250	The Role of Myoepithelial Maspain in Breast Carcinoma Progression, Diagnosis, and Screening
BC990677	Bergman	Ira	Children's Hospital, Pittsburgh	\$317,800	Development of Replication-Competent Vesicular Stomatitis Virus Specific for Breast Carcinoma Cells
BC990743	Bernardi	Richard T.	Bio-Imaging Research, Inc.	\$340,968	Micro-CT Mammography (MCTM)
BC991177	Bishop	Douglas	Chicago, University of	\$339,075	Inhibitors of Xrcc3p
BC991096	Blacklow	Stephen C.	Brigham and Women's Hospital	\$381,375	Drug Discovery for Breast Cancer by Mirror-Image Phage Display
BC990476	Blau	Helen M.	Stanford University	\$351,900	Development of a Novel Test System for Screening for Antagonists of ErbB Receptors in Breast Cancer
BC991058	Bridges	Jack E.	Interstitial	\$303,564	Microwave Detection/ Imaging of Early-Stage Breast Cancer
BC991121	Brinckerhoff	Constance E.	Dartmouth College	\$357,750	Genetic Analysis of a Single Nucleotide Polymorphism in the Matrix Metalloproteinase 1 Promoter in Breast Cancer

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990504	Brown	Deborah A.	New York, State University of, Stony Brook	\$331,875	Role of Sphingolipid- and Cholesterol-Rich Membrane Domains in Pathophysiology of Cultured Human Breast Cancer Cells
BC991061	Brown	Diane R.	Wayne State University	\$334,599	Spirituality-Based Intervention for African American Women with Breast Cancer
BC990559	Brueggemeier	Robert W.	Ohio State University	\$311,257	Novel Therapeutic Agents for Breast Cancer from Benzopyrone Combinatorial Libraries
BC990115	Bush	Trudy L.	Maryland, University of, Baltimore	\$222,743	Black and White Differences in Tamoxifen Metabolism
BC990165	Carpenter	Graham F.	Vanderbilt University	\$340,750	Regulation of ErbB-2 Metabolic Stability
BC990216	Carter	Bradford W.	Eastern Virginia Medical School	\$311,013	HER2 Regulation of Angiopoietin-2: A Mechanistic Factor in Metastasis
BC990678	Chaudhuri	Gautam	Meharry Medical College	\$326,801	Comparative Biology of BRCA2 Gene Expression in Caucasian and African American Female Breast Cells
BC990191	Chen	Jia	Mount Sinai School of Medicine, New York	\$560,478	Folate Intake, Genetic Susceptibility, and Risk of Breast Cancer
BC990562	Chen	Min	Syncrotronics Corporation	\$336,853	High-Resolution Low-Dose Digital Mammographic Detector to Reveal Fine Structures to Better Differentiate Early Breast Cancers from Normal Tissues
BC990358	Clarke	Robert	Georgetown University	\$334,748	Molecular Characterization of Resistance
BC991042	Couch	Fergus J.	Mayo Clinic and Foundation, Rochester	\$317,475	Characterization of BRCA2 Mutations in a Series of Functional Assays
BC990035	Daly	Roger J.	Garvan Institute of Medical Research	\$283,649	Identification of Novel Prognostic Indicators for Breast Cancer through Analysis of the EMS1/ Cortactin Signaling Pathway
BC990791	Davidson	Bradley S.	Utah State University	\$309,437	Development of Laulimalide-Based Microtubule-Stabilizing Agents: New Chemistry for the Treatment of Breast Cancer

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990881	Davie	James R.	Manitoba, University of	\$259,625	Isolation of Estrogen-Responsive Genes in Human Breast Cancer Cells
BC990710	Dennis	James W.	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	\$221,600	Regulation of Tumor Progression by Mgat5-Dependent Glycosylation
BC990698	Deuel	Thomas	Beth Israel Deaconess Medical Center, Boston	\$404,176	Novel Angiogenic Domains: Use in Identifying Unique Transforming and Tumor-Promoting Pathways in Human Breast Cancer
BC990423	Dewille	James	Ohio State University	\$162,044	<i>C/EBP(delta)</i> : A Candidate Tumor Suppressor Gene in Breast Cancer
BC990411	Dickson	Robert B.	Georgetown University	\$351,125	The Role of Mammary Epithelial Stem Cells in the Transition from Normal to Malignant Epithelium
BC990177	Dmitriev	Igor P.	Alabama, University of, Birmingham	\$317,685	Targeting of Adenovirus Vectors to Breast Cancer Mediated by Soluble Receptor-Ligand Fusion Proteins
BC990140	Donato	Nicholas J.	M. D. Anderson Cancer Center, University of Texas	\$224,940	Involvement of Tyrosine Phosphatases in Insulin Signaling and Apoptosis in Breast Cancer
BC990316	Donovan	Peter J.	Thomas Jefferson University	\$357,750	IAK1 Involvement in Chromosome Instability and Development of Breast Cancer
BC990185	Drake	Christopher J.	South Carolina, Medical University of	\$302,147	The Role of Vasculogenesis in Breast Cancer
BC990435	Driggers	Paul H.	Henry M. Jackson Foundation	\$184,127	Mechanism of Estrogen Receptor Activation by brx, a Novel dbl Family Proto-Oncogene
BC991028	Duffy	Hao Peng	North Shore University Hospital	\$333,088	Search for New Multidrug-Resistant Genes by Methylation-Sensitive Representational Difference Analysis (MS-RDA) in Breast Cancer
BC990854	Dynlacht	Brian D.	Harvard University	\$366,920	A Biochemical Screen for Cyclin-Dependent Kinase Substrates Involved in Cell Cycle Progression and Genome Stability
BC991163	Eckert	Kristin	Pennsylvania State University	\$330,344	Neoplastic Consequences of a Mutator Phenotype in Human Breast Epithelial Cells: A Prospective Analysis

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990976	Elble	Randolph C.	Cornell University, Ithaca	\$355,797	Calcium-Sensitive Chloride Channels: Tumor Suppressors That Promote Apoptosis
BC990070	Eng	Charis	Ohio State University	\$437,010	A Novel Phosphatase Gene on 10q23, MINPP, in Hereditary and Sporadic Breast Cancer
BC990758	Erramilli	Shyamsunder	Boston University	\$349,775	Screening for Breast Cancer Using Near-Field Infrared Spectroscopy of a Single Strand of Hair
BC990267	Faller	Douglas V.	Boston University, Boston Campus	\$366,750	Sensitization of Breast Tumors to Retinoids by Short-Chain Fatty Acids
BC990802	Fan	Zhen	Texas, University of, Houston	\$334,541	Role of PKB/Akt Pathway in Breast Cancer Chemotherapy
BC990299	Fenton	Bruce M.	Rochester, University of	\$355,673	Effect of Angiogenic Growth Factors on Tumor Growth, Vascular Function, and the Development of Hypoxic Therapeutic Resistance
BC990908	Firestone	Gary L.	California, University of, Berkley	\$322,234	Development of Synthetic Indole-3-Carbinol Derivatives as a New Class of Anti-Breast-Cancer Agents
BC990680	Forsberg	Flemming	Thomas Johnson University	\$294,308	Estimation of Tumor Angiogenesis with Contrast Enhanced Subharmonic Ultrasound Imaging
BC990762	Fowlkes	Jeffrey B.	Michigan State University	\$322,764	Ultrasonically Induced Vaporization of Perfluorocarbon Droplets for Occlusion Therapy of Breast Cancer
BC990571	Freedman	Matthew T.	Georgetown University	\$350,994	Electrical Impedance Imaging of the Breast: Correlation with MRI, US, Sestamibi, and Histology with Measures of Cell Proliferation and Vascular Density
BC990104	Freudenheim	Jo L.	New York, State University of, Buffalo	\$457,532	Environmental Exposures at Birth and at Menarche and Risk of Breast Cancer
BC990067	Frisch	Steven M.	Burnham Institute	\$290,492	Are Microtubules Involved in Anoikis?
BC991072	Fulton	Amy M.	Maryland, University of, Baltimore	\$334,122	Cyclooxygenase and Prevention of Breast Cancer Progression

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990555	Furbert-Harris	Paulette	Howard University	\$340,133	Eosinophil Cell Lines in a Tri-Cell Multicellular Tumor Spheroid (MTS)/Endothelium Complex: Down Regulation of Adhesion and Integrin Molecules - Implications of Metastasis Inhibition
BC990799	Ganju Krishan	Awtar	Miami School of Medicine, University of	\$337,498	Multiparametric Evaluation of Marker Expression
BC991060	Gariepy	Jean	Ontario Cancer Institute	\$208,407	Accelerated Searches through SKULL Libraries for Breast Cancer Selective Agents
BC990074	Garrido	Leoncio	Massachusetts General Hospital	\$326,247	Evaluation of Response to Induction Therapy in Breast Cancer with Phosphorus-31 Magnetic Resonance Spectroscopy
BC990847	Garry	Robert F.	Tulane University Medical Center	\$334,125	Involvement of a Human Endogenous Retrovirus in Breast Cancer
BC991074	Gasser	David	Pennsylvania, University of	\$356,625	A Search for Mutations That Affect Susceptibility to Breast Cancer
BC990800	Ghoda	Lucy Y.	Colorado Health Sciences Center, University of	\$339,750	The Role of p90 (rsk) in Breast Cancer Cell Survival from Apoptosis
BC990775	Gomez Navarro	Jesus	Alabama, University of, Birmingham	\$328,879	Endothelial Progenitors as Vectors for Systemic Gene Therapy of Breast Cancer
BC990344	Gong	Jianlin	Dana-Farber Cancer Institute	\$381,800	Prevention and Treatment of Spontaneous Mammary Carcinoma with Dendritic-Tumor Fusion Cell Vaccine
BC991187	Grant	Stephen G.	Pittsburgh, University of	\$388,000	Elevated Levels of Somatic Mutation as a Biomarker of Environmental Effects Contributing to Breast Carcinogenesis
BC991181	Gray	Wesley G.	Southern University A&M College	\$276,802	Phytoestrogen and Cancer: Identification of Biomarkers
BC990877	Griggs	Jennifer	Rochester, University of	\$432,298	Adequacy of Chemotherapy Dose Intensity among African American Women with HER-2/neu-Positive Breast Cancer
BC991030	Gutierrez-Hartmann	Arthur	Colorado Health Sciences Center, University of	\$339,469	Identification of Structural Domains of ESX Required for Breast Cell Transformation
BC990515	Hall	Lawrence	South Florida, University of	\$307,702	Improving Breast Cancer Research through Automated Matching of Patients to Clinical Trials

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990753	Hamilton	Ann S.	Southern California, University of	\$366,970	Breast Cancer Susceptibility Genes in High-Risk Women
BC990354	Hannon	Gregory J.	Cold Spring Harbor Laboratory	\$378,000	Synthetic Lethality in Breast Cancer Cells: Genes Required for Tumor Cell Survival
BC990648	Hanson	Robert N.	Northeastern University	\$309,874	Solid-Phase Combinatorial Approach to Estradiol Tamoxifen/Raloxifene Hybrids: Novel Chemotherapeutic/Prophylactic Selective Estrogen Receptor Modulators (SERM)
BC991043	Hathaway	Helen J.	New Mexico, University of	\$326,588	Receptor Function of Cell Surface β 1, 4-Galactosyltransferase in Mammary Gland Growth
BC990693	Haygood	Margo	California, University of, San Diego	\$327,362	Production of Bryostatins for Treatment of Breast Cancer
BC991207	Hebert	James R.	South Carolina, University of	\$722,500	Quasi-Prospective Study of Breast Cancer and Diet
BC990124	Hemscheidt	Thomas K.	Hawaii, University of, Manoa	\$267,996	Semisynthesis and in Vitro Anticancer Evaluation of Derivatives of a New Microtubule Poison with a Taxol-Like Mechanism
BC990034	Heyer	Wolf D.	California, University of, Davis	\$111,444	In Vitro Recombination Activities of the Breast Cancer Predisposition Protein Brca2
BC990924	Higgins	Paul J.	Albany Medical College	\$345,269	Molecular Disruption of Breast Tumor Angiogenesis
BC990084	Hill	Steven M.	Tulane University Medical Center	\$333,772	Melatonin, Aging, and Breast Cancer
BC991185	Hnatowich	Donald	Massachusetts Medical Center, University of	\$211,804	Improving the Properties of Technetium-99m Labeled Angiogenesis Antagonist Polypeptide for the Detection of Breast Cancer by External Imaging
BC990453	Hou	Steven	National Institutes of Health	\$224,718	Regulation of ErbB and Wnt-1 Activities by Targeting Jun and β -Catenin to Protein Degradation
BC990963	Huang	Xue F.	Baylor College of Medicine	\$335,738	Antigen Presentation by Dendritic Cells for Breast Cancer Vaccines
BC991196	Huda	Walter	New York, State University of, Syracuse	\$326,017	Radiographic Techniques and Lesion Detection Performance in Digital Mammography
BC990378	Hughes A.	Chanita A.	Georgetown University	\$750,504	Genetic Counseling for Breast Cancer Susceptibility in African American Women

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991139	Hung	Mien-Chie	M. D. Anderson Cancer Center, University of Texas	\$337,500	p202 as a Potential Therapeutic Gene for Breast Cancer
BC990071	Ip	Margot M.	Health Research, Inc., Roswell Park Division, New York State Department of Health	\$352,834	Breast Cancer Prevention by CLA Modulation of Mammary Stromal Differentiation
BC990396	Johnson	Michael D.	Georgetown University	\$228,723	Breast Cancer Metastasis and the Balance of the Serine Protease Matriptase and Its Inhibitor KSPI-1
BC990217	Karnik	Pratima	Cleveland Clinic Foundation	\$333,000	A Novel Role for Integrin-Linked Kinase in Breast Cancer
BC990830	Katzenellenbogen	John A.	Illinois, University of, Champaign/Urbana	\$324,917	Novel Coactivator-Binding Inhibitors for Blocking Estrogen Action in Breast Cancer
BC991118	Kern	Francis G.	Southern Research Institute	\$503,914	Novel Inhibitors of FGF Signal Transduction in Breast Cancer: Targeting the FGFR Adapter Protein SNT-1
BC981038	Khan	Sohaib A.	Cincinnati, University of	\$319,659	Conditional Estrogen Receptor Knockout Mouse Model for Studying Mammary Tumorigenesis
BC991084	Kleinfeld	Alan M.	Torrey-Pines Institute for Molecular Studies	\$400,882	Free Fatty Acid-Mediated Immune Suppression of Anti-Breast Cancer Effector Cell Activity
BC991113	Klostergaard	Jim	M. D. Anderson Cancer Center, University of Texas	\$339,150	New Agents for Taxol-Resistant Breast Adenocarcinoma
BC990649	Knaus	Ulla G.	Scripps Research Institute	\$358,128	The Role of ROS in Breast Cancer Metastasis
BC990116	Knutson	Victoria P.	Texas, University of, Houston	\$335,545	Regulation of Insulin Receptor Signaling by Estrogen in Breast Cancer
BC990422	Kosir	Mary A.	Wayne State University	\$739,512	Lymphedema Prophylaxis Utilizing Perioperative Education
BC991101	Lamartiniere	Coral A.	Alabama, University of, Birmingham	\$215,190	Genistein Programming against Breast Cancer
BC990709	Lampson	Lois A.	Brigham and Women's Hospital	\$361,945	Enhanced T Cell Attack of Brain Micrometastases
BC990664	Lanza-Jacoby	Susan P.	Thomas Jefferson University	\$357,546	Role of Cyclooxygenase in Breast Cancer
BC990470	Lawrence	William F.	Georgetown University	\$232,033	Breast Cancer Genetic Susceptibility Testing: A Primary Care Perspective
BC991173	Lazo	John	Pittsburgh, University of	\$318,218	Novel Thioredoxin Inhibitors for Breast Cancer Therapy

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC991210	Lee	Suk Hee	Indiana University, Indianapolis	\$335,625	Role of DNA-Dependent Protein Kinase in Breast Cancer Development/Progression
BC990393	Lelievre	Sophie A.	Lawrence Berkeley National Laboratory	\$378,872	How Does Nuclear Organization Maintain Normal Mammary Phenotype?
BC990097	Le Marchand	Loic	Hawaii, University of, Manoa	\$423,760	Estrogen Metabolism-Related Genes and Breast Cancer Risk
BC990915	Levin	Ellis R.	California, University of, Irvine	\$281,925	Novel Mechanisms by Which Estrogen Induces Anti-Apoptosis in Breast Cancer
BC990886	Lewis	Frances	Washington University	\$328,748	Factors Affecting African American Women's Participation in Breast Cancer Screening Programs: A Qualitative Study of Low-Income and Uninsured Women
BC990641	Lewis	Michael T.	Colorado Health Sciences Center, University of	\$322,701	Hedgehog Signal Transduction Inhibitors in Breast Cancer Treatment and Prevention
BC990201	Li	Chun	M. D. Anderson Cancer Center, University of Texas	\$332,945	Radiation-Induced Chemosensitization: Potentiation of Antitumor Activity of Polymer-Drug Conjugates
BC990162	Li	Pui-Kai	Ohio State University	\$314,765	Development of Dual-Acting Inhibitors for Breast Cancer
BC990740	Lilge	Lothar	Ontario Cancer Treatment and Research Foundation	\$196,900	Optical Transillumination Spectroscopy of Breast Tissue to Determine the Cancer Risk in Pre- and Postmenopausal Women
BC990503	Lin	Young C.	Ohio State University	\$331,106	In Vivo Evaluation of Gossypol-Containing Cottonseed Oil as a Dietary Chemopreventive Agent for Estrogen-Induced Mammary Carcinogenesis
BC990123	Link	Charles	Human Gene Therapy Research Institute	\$313,986	(Alpha) (1,3) Galactosyltransferase Gene Therapy for Breast Cancer
BC990287	Liu	Hanli	Texas, University of, Arlington	\$298,104	Noninvasive Monitoring of Breast Tumor Oxygenation: A Key to Tumor Therapy Planning and Tumor Prognosis
BC990960	Liu	Jingwen	VA Medical Center, Palo Alto, CA	\$248,400	Negative Regulation of Tumor Suppressor p53 Transcription in Breast Cancer Cells

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990223	Liu	Yiliang	Long Island Jewish Medical Center	\$349,565	Omega-3 Fatty Acids and a Novel Mammary-Derived Growth Inhibitor Fatty Acid Binding Protein MRG in Suppression of Mammary Tumor
BC990087	Ma	Lijun	Maryland, University of, Baltimore	\$334,125	Helical Electron Avoidance Radiation Therapy (HEART) for Breast Cancer Treatment
BC990307	Maidment	Andrew D.	Thomas Jefferson University	\$321,674	A Novel Method for Determining Calcification Composition
BC990904	Malafa	Mokenge P.	Southern Illinois University	\$308,056	Mechanism of VEGF Gene Regulation by Vitamin E in Breast Cancer
BC990835	Maskarinec	Gertraud	Hawaii, University of, Honolulu	\$401,261	Genetic Polymorphisms, Estrogens, and Breast Density
BC990442	McLeskey	Sandra	Maryland, University of, Baltimore County	\$334,082	cDNA Libraries from Microdissected Cells in Pathological Sections
BC991256	Melbye	Mads	Statens Serum Institut	\$340,074	Early Life Events and Risk of Breast Cancer
BC990169	Merajver	Sofia D.	Michigan State University	\$340,875	Genetic Determinants of Inflammatory Breast Cancer
BC990846	Minev	Boris R.	California, University of, San Diego	\$328,569	Induction of Cytotoxic T Lymphocytes for Immunotherapy of Breast Cancer
BC990188	Mobashery	Shahriar	Wayne State University	\$335,250	Cathepsin B as a Target in Prevention of Breast Cancer Tumor Metastasis
BC991220	Mooberry	Susan L.	Southwest Foundation for Biomedical Research	\$367,398	The Molecular Mechanisms of Action of a New Taxol-Like Microtubule-Stabilizing Agent
BC990607	Mooney	Robert A.	Rochester, University of	\$357,750	Role of PTPase LAR in EGF Receptor Signaling in the Mammary Gland
BC990392	Morris	Marilyn E.	New York, State University of, Amherst	\$320,242	Organic Isothiocyanates: Dietary Modulators of Doxorubicin Resistance in Breast Cancer
BC990938	Moser	Amy R.	Wisconsin, University of, Madison	\$315,730	Does a Mutation in BRCA1 Confer Increased Risk for Radiation-Induced Mammary Cancer?
BC990336	Mueller	Susette	Georgetown University	\$343,664	Loss of Syk Expression and Breast Malignancy: Gene Replacement Therapy
BC990164	Mukhopadhyay	Debabrata	Beth Israel Deaconess Medical Center, Boston	\$391,500	Effects of Stromal Modification on Mammary Tumor Growth

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990037	Musgrove	Elizabeth	Garvan Institute of Medical Research	\$222,652	Role of Cyclin D1 and p27 in Steroidal Control of Cell Cycle Progression in the Mammary Gland in Vivo
BC991126	Nawaz	Zafar	Baylor College of Medicine	\$290,827	Ubiquitin Pathway Enzymes: Coactivators of Nuclear Hormone Receptors and Their Role in the Development of Breast Cancer
BC990655	Nelson	Brad H.	Virginia Mason Research Center	\$424,618	Development of a Transgenic Mouse Model for Breast Cancer That Is Optimized for the Study of T Cell-Based Therapeutic Strategies
BC991016	Nikitin	Alexander Y.	Texas, University of, Houston Health Science Center	\$324,793	Rational Design for Targeting Breast Cancer Cells
BC990302	Olopade	Olufunmilayo I.	Chicago, University of	\$339,750	Genetics of Breast Cancer in Blacks
BC991054	Orlowski	Robert	North Carolina, University of, Chapel Hill	\$308,752	The Proteasome as a Target for Breast Cancer Therapy
BC990824	Ortiz De Solorzano	Carlos	Lawrence Berkeley National Laboratory	\$385,722	Mechanisms of Intraductal Tumor Spread
BC990905	Ortiz De Solorzano	Carlos	Lawrence Livermore National Laboratory	\$385,639	Reconstruction of Mammary Gland Structure Using Three-Dimensional Computer-Based Microscopy
BC991102	Oshima	Robert	Burnham Institute	\$438,483	Ets2 Regulation of ErbB2-Induced Mammary Tumor Progression
BC990728	Oursler	Merry Jo	Minnesota, University of, Duluth	\$323,591	Transforming Growth Factor β Regulation of Tumor Progression in Metastatic Cancer
BC990756	Ozcelik	Hilmi	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	\$235,809	Microarray Technology to Study the Role of Genetic Polymorphisms in Breast Cancer Risk
BC990974	Parks	Griffith D.	Wake Forest University School of Medicine	\$211,894	A Novel RNA Virus System for Selective Killing of Breast Cancer Cells
BC991065	Pauletti	Giovanni	Cincinnati, University of	\$315,216	Improved Delivery of Doxorubicin into Drug-Resistant Breast Cancer Cells
BC991132	Pietras	Richard J.	California, University of, Los Angeles	\$344,250	Membrane Estrogen and HER-2 Receptors in Human Breast Cancer

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990471	Pirisi	Lucia A.	South Carolina, University of	\$325,125	Modulation of Responsiveness to Herceptin in Breast Cancer Cells by Alternatively Spliced TGF- α Variants Which Interact with Erb β 2
BC990596	Press	Michael F.	Southern California, University of	\$366,625	Molecular Mechanism for Loss of Cell Adhesion in HER-2/neu Overexpressing Tumor Cells
BC990289	Price	Janet E.	M. D. Anderson Cancer Center, University of Texas	\$212,165	The Biology of Breast Cancer Brain Metastasis
BC990812	Qin	Jun	Baylor College of Medicine	\$331,185	Biochemical Analysis of the BRCA2 Protein Complex
BC991027	Quinn	Thomas P.	Missouri, University of, Columbia	\$327,215	Development of Peptide Inhibitors of Human Telomerase
BC990365	Raftogianis	Rebecca B.	Fox Chase Cancer Center	\$385,232	Pharmacogenetic Factors Contributing to Variation in Response to Tamoxifen and Raloxifene
BC991071	Ram	Tracy G.	Washington State University, Pullman	\$299,500	Blocking HER-2-Mediated Transformation with a Dominant Negative Form of HER-3
BC990099	Raveis	Victoria H.	Columbia University	\$382,759	Ageing Families and Breast Cancer: Multigenerational Issues
BC991100	Raz	Avraham	Wayne State University	\$333,638	Endothelial Cell Morphogenesis and Angiogenesis Mediated by Carbohydrate-Binding Protein Galectin-3
BC990512	Reiss	Michael	Yale University	\$367,623	TGF β Type I Receptor Kinase Inhibitors – A Novel Treatment for Breast Cancer
BC990107	Riese	David J.	Purdue University	\$325,213	Functional Analysis of the ErbB4 Receptor Tyrosine Kinase
BC990882	Romagnolo	Donato	Arizona, University of, Tucson	\$334,839	A Molecular Model for Repression of BRCA-1 Transcription by the Aryl Hydrocarbon Receptor
BC990942	Roscoe	Joseph A.	Rochester, University of	\$357,353	Acustimulation for the Control of Chemotherapy-Induced Nausea in Breast Cancer Patients
BC991198	Rosenberg	Carol L.	Boston University, Boston Campus	\$366,458	Genetic Profile of Breast Cancers in Women Exposed in Utero to Diethylstilbestrol (DES)
BC991000	Rosendahl	Mary S.	Bolder Biotechnology, Inc.	\$315,000	Long-Acting Stabilized Endostatin for Treating Breast Cancer
BC990966	Roth	Richard A.	Stanford University	\$348,772	Akt3 and Breast Cancer

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990781	Roth	Sharon Y.	M. D. Anderson Cancer Center, University of Texas	\$336,930	Role of GCN5 in Estrogen Responses, Tumor Suppression, and Breast Development in Mice
BC990352	Russo	Jose	Fox Chase Cancer Center	\$385,969	Estrogens and Breast Cancer
BC990439	Sauter	Edward R.	Thomas Jefferson University	\$280,258	Breast Cancer Biomarkers in Nipple Aspirates from Women Treated with Estrogen Receptor Blockers
BC991158	Schneider	Diane L.	California, University of, San Diego	\$450,143	Stage I Breast Cancer and Bone Mass in Older Women
BC990496	Sealy	Linda J.	Vanderbilt University	\$340,440	C/EBP β Isoforms – An Innovative Transcription Factor Therapy for Breast Cancer
BC990377	Seeholzer	Steven H.	Fox Chase Cancer Center	\$374,201	Discovery of Protein Markers in Breast Cancer by Mass Spectrometry
BC990120	Senger	Donald R.	Beth Israel Deaconess Medical Center, Boston	\$391,261	Inhibition of Breast Cancer Angiogenesis through Antagonism of β 1 Integrins
BC990461	Shackleford	Gregory M.	Children's Hospital, Los Angeles	\$222,056	A New Animal Model for Mammary Oncogene Discovery
BC990024	Shah	Sudhir V.	Arkansas, University of, Little Rock	\$279,000	Role of a Novel Matrix-Degrading Metalloproteinase in Breast Cancer Invasion
BC990255	Shaw	Chris	M. D. Anderson Cancer Center, University of Texas	\$459,090	Dual-Energy Digital Mammography with a Full-Field aSi/ CsI Flat-Panel Imager
BC990214	Shelley	Carl S.	Massachusetts General Hospital	\$382,920	Determination of the Molecular Mechanisms Responsible for Abnormal CD43 Expression in Breast Cancer
BC991135	Shimizu	Yoji	Minnesota, University of, Twin Cities	\$328,523	Function of Etk in Growth Factor Receptor Signaling to Integrins in Breast Cancer
BC991117	Shoji	Mamoru	Emory University	\$331,503	Targeted Delivery of Novel Antiangiogenic Agents in Breast Cancer
BC990147	Shu	Hong-Bing	National Jewish Hospital and Research	\$342,988	Cloning and Characterization of Genes That Inhibit TRAIL-Induced Apoptosis of Breast Cancer Cells
BC991031	Skafar	Debra F.	Wayne State University	\$332,795	Mediation of Tamoxifen's Agonist Activity by the F Domain of the Estrogen Receptor

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990108	Smith	Amos B.	Pennsylvania, University of	\$367,430	Design and Synthesis of Novel Breast Cancer Chemotherapeutic Agents Based on the Antimitotic (+)-Discodermolide
BC990386	Sommer	Steve S.	City of Hope Medical Center	\$564,740	p53 Gene Mutagenesis in Breast Cancer
BC991125	Stanton	Annette	Kansas, University of, Lawrence	\$259,087	Psychological, Cognitive, and Physical Effects of a Selective Estrogen Receptor Modulator: A Randomized, Controlled Trial with Women at Risk for Breast Cancer
BC990668	Strobl	Jeannine S.	West Virginia University	\$348,215	Novel Histone Deacetylase Inhibitors
BC990997	Strong	Theresa V.	Alabama, University of, Birmingham	\$322,875	Novel Vectors for Dendritic Cell Transduction
BC991172	Su	Li-Kuo	M. D. Anderson Cancer Center, University of Texas	\$337,434	BRCA2 and Genome Integrity
BC990080	Tammemagi	Carl M.	Henry Ford Health System	\$307,384	Hormone Receptors in Breast Cancer Prognosis – Racial and Quantitative Effects
BC990510	Tripathy	Debasish	California, University of, San Francisco	\$264,229	Phase I/II Pilot Study to Assess Toxicity and Efficacy of Chinese Herbs to Treat Hot Flashes and Menopausal Symptoms for Women with a History of Breast Cancer
BC990068	Uhr	Jonathan W.	Texas Southwestern Medical Center, University of, Dallas	\$347,388	Detection of Circulating Breast Carcinoma Cells: Clinical Implications
BC990674	Vachon	Celine M.	Mayo Clinic and Foundation, Rochester	\$508,777	Natural History of Breast Density and Breast Cancer Risk
BC990919	Vanderjagt	David L.	New Mexico, University of	\$330,750	Selective Inhibitors of 17beta-Hydroxysteroid Dehydrogenase
BC990295	Vlodavsky	Israel	Hadassah Medical Center	\$258,750	Involvement of Heparanase in Breast Carcinoma Progression
BC990711	Walker	Ameae M.	California, University of, Riverside	\$327,194	Administration of Additional Phosphorylated Prolactin During Pregnancy Inhibits Mammary Ductal Branching and Promotes Premature Lobuloalveolus Development
BC991142	Wang	Joseph	New Mexico State University	\$217,630	Miniaturized DNA Biosensor for Decentralized Breast Cancer Screening

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990044	Wang	Lihong	Texas Engineering Experiment Station	\$317,510	Scanning Microwave-Induced Acoustic Tomography
BC990340	Wang	Shaomeng	Georgetown University	\$348,249	Structure-Based Design of erbB-2 Selective Small Molecule Kinase Inhibitors
BC990766	Wang	Zhaoyi	Beth Israel Deaconess Medical Center, Boston	\$373,093	Rb-Associated Protein 46: Roles in Progression of Proliferative Breast Disease
BC991104	Wang Johanning	Feng	Alabama, University of, Birmingham	\$322,461	HERV-K 10 as a Target of Immunotherapy for Breast Cancer
BC990036	Watts	Colin K.	Garvan Institute of Medical Research	\$223,293	Functional Characterization of a Novel Progesterone Receptor Coactivator and Its Role in Breast Cancer
BC990448	Weber	Barbara	Pennsylvania, University of	\$269,847	Identification of Genetic Modifiers of Breast Cancer Risk
BC990603	Weinstein	Susan	Pennsylvania, University of	\$324,187	Detection of Breast Microcalcifications under Ultrasound Using Power Doppler and Acoustic Resonance Imaging
BC990022	White	Michael A.	Texas Southwestern Medical Center, University of, Dallas	\$334,094	Isolation of Factors That Disrupt Critical Protein/Protein Interactions within the Telomerase Holoenzyme for Use in Breast Cancer Therapeutics
BC990062	Whitehead	Ian P.	New Jersey, University of Medicine and Dentistry of, Newark	\$353,564	A Novel Strategy to Isolate Invasion-Inducing Proteins from Human Breast Tumors
BC990332	Wong	Albert J.	Thomas Jefferson University	\$303,728	Using Phage Display Proteins to Develop a New Method for Mutation Analysis
BC990748	Wong	George Y.	Strang Cancer Prevention Center	\$322,615	Cox Regression Model for Interval-Censored Data in Breast Cancer Follow-up Studies
BC990786	Worsham	Maria J.	Henry Ford Health System	\$712,114	Population-Based Assessment of MHC Class I Antigens Down-Regulation as Markers of Increased Risk for Development and Progression of Breast Cancer from Benign Breast Lesions
BC990013	Wreschner	Daniel H.	Tel Aviv University	\$225,000	Analysis of the Secreted Novel Breast Cancer-Associated MUC1/Zs Cytokine

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990669	Wu	Anna M.	City of Hope Beckman Research Institute	\$296,703	Novel Radiolabeled Antibody Fragments for Rapid Tumor Targeting and Imaging by PET
BC990939	Xu	Jianming	Baylor College of Medicine	\$335,926	A Role of the Coactivator, Amplified in Breast Cancer-1 (AIB1), in Mammary Gland Development and Breast Cancer
BC990792	Yao	Tso-Pang	Duke University Medical Center	\$341,913	Functional Analysis of the Transcriptional Coactivator CBP in Wnt-Signaling-Dependent Mammary Carcinogenesis
BC990936	Yarden	Yosef	Weizmann Institute of Science	\$225,000	Recycling of HER/ ErbB Receptors: Rescue from Apoptosis and Targets for Immunotherapy
BC990601	Yaswen	Paul	Lawrence Livermore National Laboratory	\$373,242	Telomerase Induction of TGF(beta)-Resistant Growth in Cultured Human Mammary Epithelial Cells
BC990538	Yee	Amy	Tufts University	\$368,997	Mechanisms of HBP1, a Novel Transcriptional Repressor and Cell Cycle Inhibitor, in Breast Cancer
BC990876	Yee	Douglas	Minnesota, University of, Twin Cities	\$323,686	Prevention of Breast Cancer in IGFBP
BC990610	Yip	Cecil C.	Toronto, University of	\$318,182	Identification of IGF-II-Binding Site on the Quaternary 3-D Structure of the Insulin Receptor
BC990735	Yodh	Arjun	Pennsylvania, University of	\$225,000	Parallel, Rapid Diffuse Optical Tomography of the Breast
BC990823	Yoo	Sunghan	Georgetown University	\$351,125	Inhibition of the Ku-Dependent Repair Pathway as a Strategy for Radiosensitization of Breast Cancer Cells
BC990713	Zanger	Richard C.	Battelle Memorial Institute	\$422,141	Protein Microarray Technology for the Noninvasive Diagnosis and Prognosis of Breast Cancer
BC990426	Zeitler	Philip S.	Colorado Health Sciences Center, University of	\$339,310	The Physiology of Growth Hormone-Releasing Hormone (GHRH) in Breast Cancer
BC991175	Zhan	Qimin	Pittsburgh, University of	\$318,472	Gadd45 Mediates the BRCA1-Induced Cell Cycle Arrest
BC990935	Zhang	Hui	Yale University	\$367,594	Use of p27 (KIP1) Degradation for Breast Cancer Diagnosis and Therapy

Research Awards

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC990038	Zhang	Jianting	Indiana University, Indianapolis	\$335,110	Circumvention of MRP-Mediated Drug Resistance in Breast Cancers by Synthetic Peptides
BC990290	Zheng	Yi	Tennessee, University of, Memphis	\$319,500	Assessment of the Activation State of Rho Family GTP-Binding Proteins in Breast Cancer Cells and Specimens
BC991041	Zhu	Quing	Connecticut, University of, Storrs	\$195,299	Breast Cancer Diagnosis Using Ultrasound and Diffusive Light

**FY99 Breast Cancer Research Program
Clinical Translational Research Awards**

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC994013	Gur	David	Pittsburgh, University of	\$2,372,123	Remote Patient Management in a Mammographic Screening Environment in Underserved Areas
BC994054	Verbanac	Kathryn M.	East Carolina University	\$2,030,924	Polymerase Chain Reaction and the Detection of Breast Cancer Metastases in Sentinel Lymph Nodes

FY99 Breast Cancer Research Program

INFRASTRUCTURE AWARDS

**FY99 Breast Cancer Research Program
Collaborative-Clinical Translational Research Awards**

Log Number	Principal Investigator		Institution	Award Amount	Proposal Title
	Last Name	First Name			
BC994038	Lobuglio	Albert F.	Alabama, University of, Birmingham	\$1,699,677	UAB - Community Breast Cancer Network

***FY99 Breast Cancer Research Program
Participants***

FY99 Breast Cancer Research Program

Peer Reviewers

Peer Reviewer	Degree	Institution/Affiliation
Abcouwer, Steven	Ph.D.	Department of Surgery, Massachusetts General Hospital
Abraham, George N.	M.D.	Director, University of Rochester Cancer Center, University of Rochester School of Medicine
Abraham, Lynne	M.S.	Susan G. Komen Foundation
Adams, Dee Jones	Ph.D.	YWCA of Greater Baton Rouge
Adams, Gregory P.	Ph.D.	Department of Medical Oncology, Fox Chase Cancer Center
Agarwal, Neeraj	Ph.D.	Department of Anatomy and Cell Biology, University of North Texas Health Science Center
Agurs-Collins, Tanya	Ph.D.	Howard University Cancer Center
Allegra, Jeanne F.	Ph.D.	U.S. Army Space and Missile Defense Command
Alperin, Noam J.	Ph.D.	Department of Radiology, University of Illinois at Chicago
Amzel, Mario	Ph.D.	Department of Biophysics & Biophysical Chemistry, Johns Hopkins School of Medicine
Anderson, Lois		York Cancer Center
Andrykowski, Michael A.	Ph.D.	Department of Behavioral Science, University of Kentucky College of Medicine
Arap, Wadih	M.D., Ph.D.	The Burnham Institute
Armato, Samuel G., III	Ph.D.	Department of Radiology, University of Chicago
Armstrong, Deborah K.	M.D.	Department of Medical Oncology, Johns Hopkins Oncology Center
Arteaga, Carlos L.	M.D.	Vanderbilt - Ingram Cancer Center
Aube, Jeffrey	Ph.D.	Department of Medicinal Chemistry, University of Kansas
Bachur, Nicholas R.	M.D., Ph.D.	Department of Medicine, University of Maryland Cancer Center
Bacus, Sarah S.	Ph.D.	Quantitative Diagnostics Laboratory
Bahor, Raymond E.	Ph.D., M.P.H.	Executive Secretary
Ball, Kathleen M.		Breast Cancer Alliance of Greater Cincinnati
Band, Hamid	M.D., Ph.D.	Division of Rheumatology, Immunology & Allergy, Brigham and Women's Hospital, Harvard Medical School
Barcellos-Hoff, Mary Helen	Ph.D.	Life Sciences Division, Lawrence Berkeley National Laboratory
Barker, Mary D.		Breast Cancer Coalition of NC
Barsevick, Andrea M.	D.N.Sc., R.N.	Fox Chase Cancer Center
Barton, Michelle C.	Ph.D.	Department of Molecular Genetics, University of Cincinnati
Basilion, James	Ph.D.	Harvard Medical School
Basu, Alakananda	Ph.D.	Department of Molecular Biology & Immunology University of North Texas Health Science Center
Beattie, Kenneth L.	Ph.D.	Life Sciences Division, Oak Ridge National Laboratory
Beaty, Terri H.	Ph.D.	Department of Epidemiology, Johns Hopkins University School of Public Health
Beck, Earl	Ph.D.	Executive Secretary
Becker, Julie	Ph.D., M.P.H.	Temple University
Beckman, Barbara S.	Ph.D.	Department of Pharmacology, Tulane Medical Center
Beech, Bettina	M.P.H., Dr.P.H.	University of Memphis Prevention Center
Bejsovec, Amy M.	Ph.D.	Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University
Belinsky, Steven	Ph.D.	Lovelace Respiratory Research Institute
Belury, Martha	Ph.D.	Department of Food and Nutrition, Purdue University
Bemis, Lynne T.	Ph.D.	Division of Medical Oncology, University of Colorado Health Science Center

Peer Reviewer	Degree	Institution/Affiliation
Berman, Howard M.		Executive Secretary
Berwick, Marianne	Ph.D., M.P.H.	Memorial Sloan Kettering Cancer Center
Bier, Ethan	Ph.D.	Department of Biology, University of California, San Diego
Bird, Richard Curtis	Ph.D.	Department of Pathobiology, Auburn University
Blackwood, Anne	M.D.	Departments of Medicine and Epidemiology, University of Pennsylvania School of Medicine
Blair, Geri		YWCA of Cleveland
Blanchard, Christina	Ph.D.	Division of Hematology/Oncology, Albany Medical College
Blood, Christine H.	Ph.D.	Palatin Technologies
Boice, John D., Jr.	Sc.D.	International Epidemiology Institute
Bolton, Judy L.	Ph.D.	Department of Medicinal Chemistry & Pharmacology, University of Illinois at Chicago
Boothman, David A.	Ph.D.	Departments of Radiation Oncology and Pharmacology, Case Western Reserve University
Bourguignon, Lilly Y. W.	Ph.D.	University of Miami School of Medicine
Bradshaw-Robinson, Susan R.	M.D., M.P.H.	Internal Medicine, Research Training Institute
Brainard, George C.	Ph.D.	Department of Neurology, Jefferson Medical College
Branch, Vernal		Women's Cancer Task Force Y-Me
Bremer, Eric G.	Ph.D.	Brain Tumor Research Program, Childrens Memorial Hospital
Bremner, Theodore A.	Ph.D.	Department of Biology, Howard University
Briehl, Margaret Marie	Ph.D.	Department of Pathology, University of Arizona
Brock, William A.	Ph.D.	Department of Experimental Radiation Oncology, University of Texas M.D. Anderson Cancer Center
Broder, Gail S.	J.D.	Florida Breast Cancer Coalition
Brooks, Sam C.	Ph.D.	Department of Biochemistry and Molecular Biology, Wayne State University School of Medicine
Brueggemeier, Robert W.	Ph.D.	College of Pharmacy, Ohio State University
Bucholz, Thomas A.	M.D.	University of Texas M.D. Anderson Cancer Center
Bulinski, Jeannette Chloe	Ph.D.	Department of Anatomy and Cell Biology, Columbia University, College of Physicians and Surgeons
Bulun, Serdar E.	M.D.	Department of Obstetrics and Gynecology, University of Illinois at Chicago
Bunn, H. Franklin	M.D.	Brigham and Women's Hospital
Burbelo, Peter	Ph.D.	Lombardi Cancer Center, Georgetown University
Byers, Stephen	Ph.D.	Lombardi Cancer Center, Georgetown University
Campbell, Christel C.		Idaho Breast Cancer Coalition
Cannon, Mildred S.	Ph.D., M.P.H.	Executive Secretary
Carey, David J.	Ph.D.	Weis Center for Research
Carpenter, Christine B.	Ed.S.	Iowa Breast Cancer Education
Carson, William E., III	M.D.	Ohio State University, James Cancer Hospital
Case, Karen A.		Coalition for Vaccine Against Cancer
Cerhan, James R.	M.D., Ph.D.	Mayo Clinic
Chai, Karl X.	Ph.D.	Department of Molecular Biology & Microbiology, University of Central Florida
Chambers, Ann F.	Ph.D.	London Regional Cancer Centre
Chamness, Gary C.	Ph.D.	Breast Center, Baylor College of Medicine
Chan, Thomas C. K.	Ph.D.	Department of Pharmacology and Toxicology, Epix Medical, Inc.
Chang, Ching-Jer	Ph.D.	Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University School of Pharmacy
Chang, Kun-Sang	Ph.D.	Department of Lab Medicine, University of Texas M.D. Anderson Cancer Center

Peer Reviewer	Degree	Institution/Affiliation
Chang, Lung-Ji	Ph.D.	Department of Molecular Genetics and Microbiology, University of Florida
Chang, Shine	Ph.D., M.S.P.H.	Department of Epidemiology, University of Texas
Chatterjee, Sunil K.	Ph.D.	Department of Internal Medicine, University of Kentucky
Chavez, Noel	Ph.D.	School of Public Health, University of Illinois at Chicago
Chen, George T. Y.	Ph.D.	Department of Radiation Oncology, Massachusetts General Hospital
Chiu, Wah	Ph.D.	Biochemistry Department, Baylor College of Medicine
Chrysogelos, Susan A.	Ph.D.	Lombardi Cancer Center, Georgetown University
Cidlowski, John A.	Ph.D.	Laboratory of Signal Transduction, NIEHS
Clarke, Michael F.	M.D.	Department of Internal Medicine, University of Michigan Medical Center
Clarke, Robert	Ph.D.	Lombardi Cancer Center, Georgetown University Medical School
Coats, Steve	Ph.D.	Department of Cancer Biology, Amgen Inc.
Cohen, Marion C.	Ph.D.	Department of Pathology and Laboratory Medicine, University of Medicine and Dentistry of New Jersey-New Jersey Medical School
Cohen, Stanley	M.D.	Department of Pathology and Laboratory Medicine, University of Medicine and Dentistry of New Jersey-New Jersey Medical School
Coker, Jessie	R.N.	Familial Breast/Ovarian Cancer Research Project
Collyar, Deborah E.		Patient Advocates in Research
Conzen, Suzanne	M.D.	Department of Medicine, University of Chicago
Cora-Morales, Elsa	Ph.D.	Department of Biochemistry & Molecular Biology, Mayo Clinic
Cory, Joseph G.	Ph.D.	Department of Biochemistry, East Carolina University School of Medicine
Cox, Adrienne D.	Ph.D.	Department of Radiation Oncology, University of North Carolina
Craig, Ruth W.	Ph.D.	Department of Pharmacology and Toxicology, Dartmouth Medical School
Cunha, Gerald R.	Ph.D.	Department of Anatomy, University of California at San Francisco
Dahia, Patricia	M.D., Ph.D.	Department of Cancer Biology, Dana-Farber Cancer Institute
Dahiya, Rajvir	Ph.D.	Department of Urology, VAMC & University of California at San Francisco
Daniel, Charles	Ph.D.	Department of Biology, University of California – Santa Cruz
Danks, Mary K.	Ph.D.	Department of Pharmacology, St. Jude Children's Research Hospital
Daoud, Sayed S.	Ph.D.	Department of Pharmaceutical Sciences, Washington State University
Darnowski, James	Ph.D.	Department of Medicine, Rhode Island Hospital
Das, Soma	Ph.D.	University of Chicago
Davis, Michael A.	M.D., Sc.D.	Department of Radiology, University of Massachusetts Medical Center
Davis, Alvin E., III	M.D.	The Center for Blood Research
Day, Agnes A.	Ph.D.	Department of Microbiology, Howard University Cancer Center
Deininger, Prescott	Ph.D.	Tulane Cancer Center, Tulane University Medical Center
Deisseroth, Albert B.	M.D.	Department of Internal Medicine, Yale University School of Medicine
DeLeon, Daisy D.	Ph.D.	Department of Physiology, Loma Linda University
DeMayo, Francesco J.	Ph.D.	Department of Cell Biology and Pediatrics, Baylor College of Medicine
Denhardt, David T.	Ph.D.	Department of Cell Biology, Nelson Biological Labs
Deuel, Thomas F.	M.D.	Beth Israel Hospital
Diana, John N.	Ph.D.	Executive Secretary
DiAugustine, Richard P.	Ph.D.	Laboratory of Molecular Carcinogenesis, National Institute of Environmental Health Sciences/NIH
DiBiase, Steven J.	M.D.	Department of Radiation Oncology, University of Maryland School of Medicine
Diefenbach, Michael A.	Ph.D.	Division of Population Science, Fox Chase Cancer Center

Peer Reviewer	Degree	Institution/Affiliation
Djeu, Julie Y.	Ph.D.	Department of Biochemistry & Molecular Biology, University of South Florida College of Medicine
Donehower, Lawrence A.	Ph.D.	Division of Molecular Virology, Baylor College of Medicine
Doonkeen, Eula		To Have a Heart Foundation
D'Orsi, Carl J.	M.D.	University of Massachusetts Medical Center
Doxsey, Stephen	Ph.D.	Program in Molecular Medicine, University of Massachusetts Medical Center
Draper, Arlyne		San Diego/Imperial County Regional Partnership, Scripps Clinic
Drebin, Jeffrey	M.D., Ph.D.	Surgery Department, Washington University School of Medicine
Duckett, Colin S.	Ph.D.	Panel Member
Duckett, Eva J.	M.D.	Department of Radiology, Howard University Hospital
Duronio, Robert J.	Ph.D.	Department of Biology, University of North Carolina at Chapel Hill
Dutta, Anindya	M.D., Ph.D.	Department of Pathology, Brigham & Women's Hospital, Harvard Medical School
Duzenli, Cheryl R.	Ph.D.	British Columbia Cancer Center
Eckhart, Walter	Ph.D.	The Salk Institute
Eder, Joseph P.	M.D.	Department of Cancer Pharmacology, Dana Farber Cancer Institute
Edwards, Dean P.	Ph.D.	Department of Pathology, University of Colorado Health Science Center
Edwards, Margaret R.	D.S.N.	Northeast Louisiana Affiliate of the Susan G. Komen Breast Cancer Foundation
Egan, Kathleen M.	Sc.D., M.P.H.	Department of Epidemiology, Harvard School of Public Health
El-Ashry, Dorraya	Ph.D.	Lombardi Cancer Center, Georgetown University
Ellison, R. Curtis	M.D.	Department of Medicine, Boston University Medical Center
Emanuel, Ellen J.	Ph.D.	Women's Cancer Resource Center
Emerman, Joanne T.	Ph.D.	Department of Anatomy, University of British Columbia
Eng, Charis	M.D., Ph.D.	Human Cancer Genetics Program, Ohio State University
Eng, Christine M.	M.D.	Department of Human Genetics, Mount Sinai School of Medicine
Engler, Mark J.	Ph.D.	Department of Radiation Oncology, Tufts University Medical School
Evans, Lemuel A.	Ph.D.	Executive Secretary
Evans, Marilyn I.	Ph.D.	Department of Biochemistry, West Virginia University School of Medicine
Fahey, Frederic	D.Sc.	Pet Center, Wake Forest University School of Medicine
Feiler, Ellen G.	M.S.	Florida Breast Cancer Resource Network
Fett, James W.	Ph.D.	Center for Biochemical & Biophysical Sciences & Medicine, CBBSM, Harvard Medical School
Fife, Rose S.	M.D.	Indiana University School of Medicine
Finestone, Sandra		Orange County Breast Cancer Partnership
Floyd, Carey E.	Ph.D.	Department of Radiology, Duke University Medical Center
Folkman, Judah	M.D.	Harvard Medical School
Ford, Judith M.	M.D., Ph.D.	Department of Radiation Oncology, UCLA Medical Center
Foster, David A.	Ph.D.	Department of Biological Sciences, Hunter College of CUNY
Fountain, Jane W.	Ph.D.	Department of Biochemistry and Molecular Biology, University of Southern California
Fox, Paul L.	Ph.D.	Department of Cell Biology, Cleveland Clinic
Franklin, Renty B.	Ph.D.	Department of Craniofacial Biological Sciences, University of Maryland Dental School
Freedman, Matthew	M.D.	Radiology Department, Georgetown University Medical Center
Freeman, Michael R.	Ph.D.	Department of Urology Research, Children's Hospital, Harvard Medical School
Frew, Ralph A.	D.D.S., M.P.H.	Executive Secretary

Peer Reviewer	Degree	Institution/Affiliation
Fuchs-Young, Robin S. L.	Ph.D.	Department of Carcinogenesis, University of Texas M.D. Anderson Cancer Center
Fugh-Berman, Adriane	M.D.	George Washington University School of Medicine and Health Sciences
Fulton, Amy M.	Ph.D.	Department of Pathology, University of Maryland School of Medicine
Fuqua, Suzanne A. W.	Ph.D.	Baylor College of Medicine
Fussell, Esther	M.Ed.	Christine Regan Breast Care Organization
Gabrilovich, Dmitry	M.D., Ph.D.	Cancer Center, Loyola University Medical Center
Gaido, Kevin	Ph.D.	Chemical Industry Institute of Toxicology
Galy, Anne	Ph.D.	Karmanos Cancer Institute
Ganapathi, Ram	Ph.D.	Experimental Therapeutics Program, Cleveland Clinic Foundation Cancer Center
Gapstur, Susan M.	Ph.D., M.P.H.	Department of Preventive Medicine, Northwestern University Medical School
Garcia-Blanco, Mariano A.	M.D., Ph.D.	Department of Pharmacology and Cancer Biology, Duke University Medical Center
Geard, Charles R.	Ph.D.	Center of Radiological Research, Columbia University
Gehm, Barry D.	Ph.D.	Center for Endocrinology, Metabolism & Molecular Medicine, Northwestern University Medical School
Gerlach, James H.	Ph.D.	Cancer Research Laboratories, Queen's University
Gewirtz, David A.	Ph.D.	Department of Medicine, Medical College of Virginia
Ghazal, Peter	Ph.D.	Department of Immunology, The Scripps Research Institute
Gibbs, Richard A.	Ph.D.	Department of Pharmaceutical Sciences, Wayne State University
Gillies, Robert J.	Ph.D.	Arizona Cancer Center
Gines, M. Venus		Mexican Center of Atlanta
Glickson, Jerry D.	Ph.D.	Department of Radiology, University of Pennsylvania School of Medicine
Glover, Thomas W.	Ph.D.	Department of Human Genetics, University of Michigan
Gmitro, Arthur F.	Ph.D.	Department of Radiology, University of Arizona
Gobel, Stephen	D.D.S.	Executive Secretary
Gonsoulin, Teresa L.		INTEGRIS Health, INTEGRIS Baptist Medical Center
Goter Robinson, Carol J.	Ph.D.	Executive Secretary
Gottardis, Marco M.	Ph.D.	Department of Endocrine Oncology, Bristol-Myers Squibb Pharmaceutical Institute
Gabel, Laura B.	Ph.D.	Department of Biology, Wesleyan University
Greenberg, Norman M.	Ph.D.	Department of Cell Biology & Urology, Baylor College of Medicine
Greene, Geoffrey L.	Ph.D.	Ben May Institute, University of Chicago
Greer, Peter A.	Ph.D.	Department of Pathology, Queen's University, Cancer Research Laboratories
Griem, Katherine	M.D.	Department of Radiation Oncology, Rush Presbyterian-St. Lukes Medical Center
Griffith, Jeffrey	Ph.D.	Department of Biochemistry & Molecular Biology, University of New Mexico School of Medicine
Groden, Joanna L.	Ph.D.	Department Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati
Guisse, Theresa A.	M.D.	Department of Medicine and Endocrinology, University of Texas at San Antonio Health Science Center
Guzman, Raphael C.	Ph.D.	Department of Molecular and Cell Biology, University of California at Berkeley, Cancer Research Laboratory
Hafeli, Urs	Ph.D.	Radiation Oncology Department, The Cleveland Clinic Foundation
Hahn, Peter J.	Ph.D.	Department of Radiation Oncology, SUNY-Health Science Center at Syracuse

Peer Reviewer	Degree	Institution/Affiliation
Halazonetis, Thanos	D.D.S., Ph.D.	Department of Molecular Genetics, The Wistar Institute
Hale, Laura Pope	M.D., Ph.D.	Department of Pathology, Duke University Medical Center
Hamel, Paul	Ph.D.	Department of Medicine and Pathobiology, University of Toronto
Hampton, Deborah L.		Y-ME of Chattanooga, The Breast Cancer Organization Board of Directors
Hanash, Sam	M.D., Ph.D.	University of Michigan
Hann, Stephen R.	Ph.D.	Department of Cell Biology, Vanderbilt University
Hansen, Marc F.	Ph.D.	Center for Molecular Medicine, University of Connecticut Health Center
Hanson, Robert N.	Ph.D.	Department of Pharmaceutical Sciences, Northeastern University
Hardt, Nancy S.	M.D.	Department of Pathology, University of Florida College of Medicine
Harp, Joyce B.	M.D.	Department of Nutrition, University of North Carolina Chapel Hill
Harris, Jules E.	M.D.	Section of Medical Oncology, Rush University
Hartmann, Debra T.		National Breast Cancer Coalition
Hartmann, Judith Ann	Ph.D., J.D.	Providence Health System, Regional Cancer Program
Helman, Sandy I.	Ph.D.	Executive Secretary
Henderson, Jessica W.	M.S.	Oregon Breast & Cervical Cancer Coalition
Hendrich, Suzanne	Ph.D.	Department of Food Science and Human Nutrition, Iowa State University
Hengartner, Michael O.	Ph.D.	Cold Spring Harbor Laboratory
Herscowitz, Herbert B.	Ph.D.	Department of Microbiology and Immunology, Georgetown University School of Medicine
Hill, Donald L.	Ph.D.	University of Alabama at Birmingham
Ho, Shuk-Mei	Ph.D.	Department of Surgery, Division of Urology, University of Massachusetts Medical School
Holt, Charlene P.	M.D.	American Cancer Society, Western Pacific Division
Horne, Elizabeth G.E.		Canadian Breast Cancer Network
Hosick, Howard L.	Ph.D.	Department of Genetics and Cell Biology, Washington State University
Houghton, Janet A.	Ph.D.	Department of Molecular Pharmacology, Saint Jude Children's Research Hospital
Howard, Thomas H.	M.D.	The Children's Hospital, University of Alabama at Birmingham
Hu, Yun-Fu	Ph.D.	Fox Chase Cancer Center
Hubbard, Ann L.	Ph.D.	Department of Cell Biology and Anatomy, Johns Hopkins School of Medicine
Huet-Hudson, Yvette M.	Ph.D.	Department of Biology, University of North Carolina at Charlotte
Huff, Vicki	Ph.D.	Department of Experimental Pediatrics, M.D. Anderson Cancer Center
Humm, John	Ph.D.	Department of Medical Physics, Memorial Sloan Kettering Institute
Hunt, Kelly	M.D.	Department of Surgical Oncology, M.D. Anderson Cancer Center
Hunt, Jay D., III	Ph.D.	Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center
Huppi, Konrad	Ph.D.	Laboratory of Genetics, NCI/NIH
Ip, Clement	Ph.D.	Department of Experimental Pathology, Roswell Park Cancer Institute
Ip, Margot M.	Ph.D.	Department of Pharmacology and Therapeutics, Roswell Park Cancer Institute
Ittmann, Michael	M.D., Ph.D.	Houston VA Medical Center
Jackson, Lorre Lei		Louisiana Breast Cancer Task Force
Jacobs, Danny O.	M.D, M.P.H.	Harvard Medical School/ Brigham and Women's Hospital
Jendradiak, Gordon Lee	Ph.D.	Department of Radiation Oncology, East Carolina University School of Medicine
Jeng, Meei-Huey	Ph.D.	Department of Internal Medicine, University of Virginia, Health Science Center

Peer Reviewer	Degree	Institution/Affiliation
Jensen, Roy A.	M.D.	Department of Pathology, Vanderbilt University Medical Center
Jenski, Laura J.	Ph.D.	Department of Biology, Indiana University - Purdue University at Indianapolis
Jerry, D. Joseph	Ph.D.	Department of Veterinary and Animal Sciences, University of Massachusetts
Jewell, William R.	M.D.	Kansas Cancer Institute, University of Kansas Medical Center
Jiang, Huabei	Ph.D.	Department of Physics and Astronomy, Clemson University
John, Gilbert	Ph.D.	Department of Microbiology & Molecular Genetics, Oklahoma State University
Johnson, Alfred C.	Ph.D.	Laboratory of Molecular Biology, DBS, NIH/NCI
Johnson, Carolyn C.	Ph.D.	Department of Community Health Sciences, Tulane University School of Public Health and Tropical Medicine
Johnson, Jean E.	Ph.D., R.N.	University of Rochester
Johnson, Randy	Ph.D.	Department of Biochemistry and Molecular Biology, University of Texas M.D. Anderson Cancer Center
Johnson, Terry C.	Ph.D.	Kansas State University Cancer Center
Johnston, Randal N.	Ph.D.	Department of Biochemistry & Molecular Biology, University of Calgary
Jones, Lovell A.	Ph.D.	University of Texas M.D. Anderson Cancer Center
Justis, Vivian C.	M.A.	Women of Color Breast Cancer Survivors Support Group
Kallergi, Maria	Ph.D.	Department of Radiology, University of South Florida
Kallick, Deborah	Ph.D.	Department of Medicinal Chemistry, University of Minnesota
Kandpal, Raj P.	Ph.D.	Fels Institute for Cancer Research, Temple University School of Medicine
Kane, Susan E.	Ph.D.	Department of Cell and Tumor Biology, City of Hope National Medical Center
Kannan, Perry	Ph.D.	Research Department, MetroHealth Medical Center
Kaplan, Alan M.	Ph.D.	Department of Microbiology and Immunology, University of Kentucky School of Medicine
Keith, Verna M.	Ph.D.	Department of Sociology, Arizona State University
Kelsey, Sheryl F.	Ph.D.	Department of Epidemiology, University of Pittsburgh
Kemp, Christopher J.	Ph.D.	Department of Cancer Biology, Fred Hutchinson Research Center
Kern, Francis G.	Ph.D.	Department of Molecular Oncology, Southern Research Institute
Ketchel, Melvin M.	Ph.D.	Executive Secretary
Khan, Sohaib A.	Ph.D.	Department of Cell Biology, University of Cincinnati, College of Medicine
Killary, Ann M.	Ph.D.	Division of Pathology and Lab Medicine, University of Texas M.D. Anderson Cancer Center
Katherine K. Kim	Ph.D.	Association of Asian Pacific Community Health Organizations
Kim, Sinil	M.D.	Panel Member
Kimbrow, Kevin Sean	Ph.D.	Department of Biological Sciences, Clark Atlanta University
Kimler, Bruce F.	Ph.D.	Department of Radiation Oncology, University of Kansas Medical Center
Kinch, Michael S.	Ph.D.	Department of Basic Medical Sciences, Purdue University
Kinniburgh, Alan J.	Ph.D.	Department of Cancer Genetics, Roswell Park Cancer Institute
Klein, Pamela M.	M.D.	National Cancer Institute, Navy
Klemke, Richard	Ph.D.	Department of Immunology, Scripps Research Institute
Klinge, Carolyn M.	Ph.D.	Department of Biochemistry and Molecular Biology, University of Louisville School of Medicine
Knepper, Janice E.	Ph.D.	Department of Biology, Villanova University
Kohlmeier, Hermann Hans Martin	M.D., Ph.D., D.Sc.	Department of Nutrition, University of North Carolina - Chapel Hill

Peer Reviewer	Degree	Institution/Affiliation
Kramer, Elissa L.	M.D.	Department of Nuclear Medicine, NYU Medical Center
Krauss, Dawn		North American Indian Center of Grand Rapids
Krontiris, Theodore G.	M.D., Ph.D.	Division of Molecular Medicine, Beckman Research Institute of the City of Hope
Kruglyak, Leonid	Ph.D.	Human Biology, Fred Hutchinson Cancer Research Center
Krupinski, Elizabeth A.	Ph.D.	Department of Radiology-Research, University of Arizona
Kumar, Ajit	Ph.D.	Department of Biochemistry & Molecular Biology, George Washington University School of Medicine
Kumar, Rakesh	Ph.D.	Department of Clinical Investigation, University of Texas M.D. Anderson Cancer Center
Kung, Hsing-Jien	Ph.D.	UC Davis Cancer Center
Kurland, Robert J.	Ph.D.	Panel Member
LaHann, Thomas R.	Ph.D.	College of Pharmacy, Idaho State University
Lamph, William W.	Ph.D.	Retinoid Research, Ligand Pharmaceuticals, Inc.
Landry, Jerome C.	M.D.	Department of Radiation Oncology, Emory University
Langton-Webster, Beatrice	Ph.D.	Panel Member
Lawrence, Julia A.	D.O.	Breast and Gynecologic Cancer Research Group
Lebman, Deborah A.	Ph.D.	Virginia Commonwealth University
LeClair, Elizabeth E.	Ph.D.	Linda Creed Breast Cancer Foundation
Lee, William M.	M.D., Ph.D.	Department of Medicine, University of Pennsylvania School of Medicine
Leigh-Gold, Mildred E.		Milwaukee Breast Cancer Awareness Program
Lemischka, Ihor	Ph.D.	Department of Molecular Biology, Princeton University
Leof, Edward	Ph.D.	Department of Biochemistry & Molecular Biology, Thoracic Research Unit, Mayo Clinic and Foundation
Leong, Lucille A.	M.D.	Department of Medical Oncology and Experimental Therapeutics, City of Hope National Medical Center
Leung, Benjamin S.	Ph.D.	Department of OB/GYN, University of Minnesota
Li, Luyuan	Ph.D.	Lombardi Cancer Center, Georgetown University Medical Center
Lin, P. Charles	Ph.D.	Department of Cell Biology, Vanderbilt University School of Medicine
Lingrel, Jerry B.	Ph.D.	Department of Molecular Genetics, University of Cincinnati College of Medicine
Linial, Maxine L.	Ph.D.	Fred Hutchinson Cancer Research Center
Lipkus, Isaac Marcelo	Ph.D.	Duke University Medical Center
Liu, Hong	Ph.D.	Department of Radiology, University of Virginia
Locker, Joseph	D. M.D., Ph.D.	Department of Pathology, Albert Einstein College of Medicine
Lowery, Dolores L.	M.S.	Executive Secretary
Lowrey, Christopher H.	M.D.	Department of Pharmacology and Toxicology, Dartmouth Medical School
Luduena, Richard F.	Ph.D.	Department of Biochemistry, University of Texas Health Science Center
Lum, Clark K.	Ph.D.	Executive Secretary
Lupu, Ruth F.	Ph.D.	Department of Molecular and Cell Biology, Lawrence Berkeley National Lab, University of California
Ma, Chang-Ming	Ph.D.	Department of Radiation Oncology, Stanford University School of Medicine
Madden, Kathleen Shaver	Ph.D.	Executive Secretary
Malkas, Linda H.	Ph.D., M.P.H.	Department of Pharmacology, University of Maryland School of Medicine
Mandelson, Margaret T.	Ph.D., M.P.H.	Center for Health Studies, Group Health Cooperative of Puget Sound
Manfredi, James J.	Ph.D.	Mount Sinai Medical Center

Peer Reviewer	Degree	Institution/Affiliation
Mankoff, David A.	M.D., Ph.D.	Division of Nuclear Medicine, University of Washington Medical Center
Mannarino, Maria A.	M.D.	Executive Secretary
Mansfield, Carl M.	M.D., Sc.D.	Department of Radiation Oncology, University of Maryland School of Medicine
Mantulin, William W.	Ph.D.	Department of Physics, University of Illinois at Urbana-Champaign
Carol S. Marcus	M.D., Ph.D.	Panel Member
Mark, Hon Fong L.	Ph.D.	KRAM Corporation
Marshall, James R.	Ph.D.	Department of Family and Community Medicine, Arizona Cancer Center
Martinez, Andrew O.	Ph.D.	Division of Life Sciences, University of Texas at San Antonio
Martins-Green, Manuela	Ph.D.	Department of Cell and Molecular Biology, University of California at Riverside
Matsumoto, Tomohiro	Ph.D.	Albert Einstein College of Medicine
Matsunaga, Terry O.	Ph.D., Pharm.D.	Department of Quality and New Product Development, Imarx Pharmaceuticals
Maxwell, Annette E.	Dr.P.H.	Jonsson Comprehensive Cancer Center of Public Health, University of California at Los Angeles
Maygarden, Susan J.	M.D.	Department of Surgical Pathology, University of North Carolina Hospitals
McCarty, Kenneth S., Jr.	M.D., Ph.D.	Department of Pathology and Medicine, University of Pittsburgh
McIvor, R. Scott	Ph.D.	Institute of Human Genetics, University of Minnesota
McKim, Kim	Ph.D.	Department of Genetics, Rutgers University
McLeskey, Sandra W.	Ph.D.	Lombardi Cancer Center, Georgetown University Medical Center
McNeese, Marsha D.	M.D.	University of Texas M.D. Anderson Cancer Center
Meadows, Gary G.	Ph.D.	Department of Pharmaceutical Sciences, Washington State University College of Pharmacy
Mehta, Rajendra	Ph.D.	Department of Surgical Oncology, University of Illinois at Chicago
Meier, Kathryn E.	Ph.D.	Department of Pharmacology, Medical University of South Carolina
Melendy, Thomas E.	Ph.D.	Department of Microbiology, University of Buffalo School of Medicine & Biomedical Sciences
Mercer, W. Edward	Ph.D.	Jefferson Medical College
Mettlin, Curtis	Ph.D.	Roswell Park Cancer Institute
Meyn, Raymond E.	Ph.D.	University of Texas M.D. Anderson Cancer Center
Miksiccek, Richard J.	Ph.D.	Physiology Department, Michigan State University
Miller, Alexandra C.	Ph.D.	Armed Forces Radiobiology
Miller-Graziano, Carol L.	Ph.D.	Department of Surgery, University of Massachusetts Medical Center
Mira-y-Lopez, Rafael	M.D., Ph.D.	Department of Medicine, Mt. Sinai School of Medicine
Mittler, Robert S.	Ph.D.	Department of Autoimmunity and Transplantation, Bristol-Myers Squibb Pharmaceutical Research Institute
Mixson, Archibald J.	M.D.	Department of Pathology, University of Maryland Baltimore
Miyamoto, Shigeki	Ph.D.	Department of Pharmacology, University of Wisconsin Medical School
Monroy, Suzanne	M.A., R.N.	People Living Through Cancer
Montano, Monica	Ph.D.	Department of Pharmacology, Case Western Research University School of Medicine
Moolten, Frederick L.	M.D.	VA Medical Center
Mooney, Kathleen	R.N., Ph.D.	University of Utah
Morello-Frosch, Rachel	Ph.D.	Breast Cancer Action
Morgan, Richard H.	Ph.D.	Clinical Gene Therapy Branch, National Institutes of Health
Morré, D. James	Ph.D.	Purdue University

Peer Reviewer	Degree	Institution/Affiliation
Morris, Andrew J.	Ph.D.	Department of Pharmacological Sciences, State University of New York School of Medicine
Morrow, Gary R.	Ph.D.	University of Rochester Medical Center
Mortimer, Joanne	M.D.	Internal Medicine/Barnard Cancer Center, Washington University
Morton, Cynthia C.	Ph.D.	Department of Pathology, Brigham and Women's Hospital
Mueller, Susette C.	Ph.D.	Department of Cell Biology, Georgetown University Medical School
Mulder, Kathleen M.	Ph.D.	Department of Pharmacology, Penn State University College of Medicine
Muller, Alexander J.	Ph.D.	Glenolden Laboratories, Dupont Pharmaceuticals
Muller, William J.	Ph.D.	Department of Pathology, McMaster University Institute for Molecular Biology
Munshi, Nikhil C.	M.D.	Myeloma and Transplantation Research Center, University of Arkansas for Medical Sciences
Murphy, Leigh C.	Ph.D.	Department of Biochemistry, University of Manitoba
Narla, Mohandas	Sc.D.	Life Science Division, Lawrence Berkeley National Laboratory
Naylor, Susan L.	Ph.D.	Department of Cellular and Structural Biology, The University of Texas Health Science Center
Nephew, Kenneth P.	Ph.D.	Department of Physiology and Biophysics, Indiana University School of Medicine
Neville, Margaret C.	Ph.D.	Department of Physiology, University of Colorado Health Science Center
Niles, Richard M.	Ph.D.	Department of Biochemistry and Molecular Biology, Marshall University School of Medicine
Noguchi, Constance Tom	Ph.D.	Laboratory of Chemical Biology, NIDDK/NIH
Noss, LtCol Karin D.	M.A., M.P.A.	National Breast Cancer Coalition
Nutter, John E.	Ph.D.	Executive Secretary
O'Brien, Patricia Jeri	M.D.	Breast Care Center of Fletcher Allen Health Care
O'Connell, Peter	Ph.D.	Baylor Breast Center, Baylor College of Medicine
Ochieng, Josiah	Ph.D.	Department of Biochemistry, Meharry Medical College
Ostrand-Rosenberg, Suzanne	Ph.D.	Department of Biological Sciences, University of Maryland Baltimore County
Otero, Miguel	Ph.D.	Department of Biochemistry, University of Puerto Rico
Oursler, Merry Jo	Ph.D.	Department of Biology, University of Minnesota at Duluth
Ove, Peter	Ph.D.	Executive Secretary
Palmer, Anne B.		American Cancer Society
Parker, Barbara R.		Patient Advocates in Research-North Carolina (PAIR-NC)
Parra-Medina, Deborah	Ph.D., M.P.H.	Dept. of Health Promotion & Education/Women's Studies Program, University of South Carolina
Parvin, Jeffrey D.	M.D., Ph.D.	Department of Pathology, Harvard Medical School, Brigham & Women's Hospital
Pasternack, Gary R.	M.D., Ph.D.	Division of Molecular Pathology, Johns Hopkins University School of Medicine
Paterson, Yvonne	Ph.D.	Department of Microbiology, University of Pennsylvania
Patriotis, Christos	Ph.D.	Department of Medical Oncology, Fox Chase Cancer Center
Patterson, Elizabeth A.	M.D., F.A.C.R.	Ad Hoc Member
Pauli, Bendicht U.	D.V.M., Ph.D.	Department of Molecular Medicine, Cornell University College of Veterinary Medicine
Peace, David J.	M.D.	Section of Hematology/Oncology, University of Illinois, Chicago
Pellicer, Angel	M.D., Ph.D.	Department of Pathology, New York University Medical Center
Penn, Linda Z.	Ph.D.	Department of Cellular and Molecular Biology, University of Toronto, Ontario Cancer Institute

Peer Reviewer	Degree	Institution/Affiliation
Pentz, Lundy Hurd	Ph.D.	Executive Secretary
Perz, Catherine A.	Ph.D.	Matrix Consulting and Research
Petty, Elizabeth M.	M.D.	Department of Internal Medicine and Human Genetics, University of Michigan School of Medicine
Philip, Ramila	Ph.D.	Argonex, Inc.
Pierce, Carl W.	M.D., Ph.D.	One Eyed Dude and Associates
Pietras, Richard J.	M.D., Ph.D.	Department of Medicine - Hematology/Oncology, UCLA School of Medicine
Pilant, Vivian B.	M.S.	Palmetto Baptist Medical Center
Pizarro, Theresa T.	Ph.D., B.A.	Department of Medicine, Division of GI & Hepatology, University of Virginia, Health Sciences Center
Plon, Sharon E.	M.D., Ph.D.	Department of Pediatrics and Molecular/Human Genetics, Baylor College of Medicine
Potter, Terence A.	Ph.D.	Department of Medicine, National Jewish Hospital
Price, Janet E.	Ph.D.	Department of Cancer Biology, University of Texas M.D. Anderson Cancer Center
Pruitt, Steven C.	Ph.D.	Department of Molecular and Cellular Biology, Roswell Park Cancer Institute
Puga, Alvaro	Ph.D.	Department of Environmental Health, University of Cincinnati Medical Center
Pytela, Robert	Ph.D.	Lung Biology Center, San Francisco General Hospital
Qian, Wei	Ph.D.	Department of Radiology, University of South Florida, College of Medicine
Quesenberry, Charles P.	Ph.D.	Division of Research, Kaiser Foundation Research Institute
Radice, Glenn	Ph.D.	Department of Obstetrics and Gynecology, University of Pennsylvania, Center for Research on Reproduction & Women's Health
Ramakrishnan, Viswanathan	Ph.D.	Department of Epidemiology and Biostatistics, University of Illinois at Chicago
Ramaprasad, Subbaraya	Ph.D.	Panel Member
Rasenick, Mark M.	Ph.D.	Department of Physiology and Biophysics, University of Illinois at Chicago College of Medicine
Redd, William H.	Ph.D.	Mount Sinai School of Medicine
Reddick-Jenkins, Beverly	M.A.	AMC Cancer Research Center
Reddy, E. Premkumar	Ph.D.	Fels Institute for Cancer Research & Molecular Biology, Temple University School of Medicine
Richards, Sue	Ph.D.	Department of Molecular and Human Genetics, Baylor University College of Medicine
Rinker-Schaeffer, Carrie W.	Ph.D.	Department of Urology, University of Chicago
Riter, Robert N.	M.H.S.A.	Ithaca Breast Cancer Alliance
Robbins, Paul D.	Ph.D.	Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine
Roberson, Noma	Ph.D.	Robersom Consulting
Robins, Diane M.	Ph.D.	Department of Human Genetics, University of Michigan Medical School
Robinson, Gertraud	Ph.D.	LGP, NIDDK, NIH
Robson, Mark E.	M.D.	Memorial Sloan-Kettering Cancer Center
Rockwell, Sara	Ph.D.	Department of Therapeutic Radiology, Yale University School of Medicine
Rodeck, Ulrich	M.D., D.Sc.	Department of Dermatology and Cutaneous Biology, Thomas Jefferson University
Rodland, Karin D.	Ph.D.	Department of Cell and Developmental Biology, Oregon Health Sciences University

Peer Reviewer	Degree	Institution/Affiliation
Rogan, Eleanor G.	Ph.D.	Eppley Institute, University of Nebraska Medical Center
Rollag, Mark D.	Ph.D.	Department of Anatomy, Uniformed Services University of the Health Sciences
Rosenbaum, Doris F.		Kentucky Breast Cancer Coalition
Rosenberg, Carol L.	M.D.	Boston University Medical Center
Ross, Jeff	M.D.	McArdle Laboratory for Cancer Research
Ross, Theodora	M.D., Ph.D.	Department of Medicine, University of Michigan Cancer Center
Roth, Sharon Y.	Ph.D.	Department of Biochemistry and Molecular Biology, University of Texas M.D. Anderson Cancer Center
Roy, Deodutta	Ph.D.	Department of Environmental Health Sciences, University of Alabama at Birmingham
Rubin, Jeffrey S.	M.D., Ph.D.	Division of Basic Science - Lab of Cell/Molecular Biology, NIH – NCI
Ruh, Mary F.	Ph.D.	Department of Pharmacological and Physiological Science, St. Louis University School of Medicine
Sabol, John M.	Ph.D.	Global Applied Sciences Lab, General Electric Medical Systems
Samei, Ehsan	Ph.D.	Department of Radiology, Medical University of South Carolina
Sandberg, Anna M.	Dr. P.H., M.P.H.	Executive Secretary
Sanders, Michel M.	Ph.D.	Department of Biochemistry. Molecular Biology & Biophysics, University of Minnesota
Sang, Qing-Xiang Amy	Ph.D.	Department of Chemistry, Florida State University
Sarah, Barbara	M.S.W.	Benedictine Hospital
Sarna, Linda	D.N.Sc., R.N.	UCLA School of Nursing
Sawyers, Charles L.	M.D.	Division of Hematology/Oncology, University of California Los Angeles School of Medicine
Schluederberg, Ann	Sc.D.	Executive Secretary
Schmid, Michael F.	Ph.D.	Department of Biochemistry, Baylor College of Medicine, Verna and Marrs Mclean
Schreiber, Alan D.	M.D.	Hospital of University of Pennsylvania
Schultz, Roger A.	Ph.D.	McDermott Center, University of Texas SouthWestern Medical Center
Schulze-Gahmen, Ursula	Ph.D.	Physical Bioscience Division, Lawrence Berkeley National Laboratory
Schwartz, Arnold	M.D., Ph.D.	Department of Pathology, George Washington University Medical Center
Schwartz, Edward L.	Ph.D.	Department of Oncology, Albert Einstein Cancer Center, Montefiore Medical Center
Sclabassi, Robert	M.D., Ph.D.	Department of Neurophysiology, University of Pittsburgh
Sedivy, John M.	Ph.D.	Department of Molecular and Cellular Biology and Biochemistry, Brown University
Seewaldt, Victoria L.	M.D.	Ohio State University
Segall, Jeffrey E.	Ph.D.	Department of Anatomy & Structural Biology, Albert Einstein College of Medicine
Sekelsky, Mary Jo	Ed.D.	American Cancer Society
Selassie, Cynthia	Ph.D.	Chemistry Department, Pomona College
Seldin, David C.	M.D., Ph.D.	Department of Medicine, Boston University Medical Center
Sellers, Thomas A.	Ph.D.	Mayo Foundation
Semenza, Gregg L.	M.D., Ph.D.	Johns Hopkins University School of Medicine
Sens, Donald A.	Ph.D.	Department of Pathology, West Virginia University
Shaw, Leslie M.	Ph.D.	Dana 601, Beth Israel Deaconess Medical Center
Sherman, Mark E.	M.D.	Department of Pathology, Johns Hopkins Medical Institutions
Shih, Grace	M.S.	Chinese American Cancer Foundation
Shore, Scott K.	Ph.D.	The Fels Institute, Temple University School of Medicine

Peer Reviewer	Degree	Institution/Affiliation
Shu, Xiao-Ou	M.D., Ph.D., M.P.H.	Department of Pediatrics, University of South Carolina School of Medicine
Shyr, Yu	Ph.D., M.S.	Department of Preventive Medicine, Vanderbilt University School of Medicine
Sicinski, Piotr	M.D., Ph.D.	Harvard Medical School, Dana Farber Cancer Institute
Sieber, Susan M.	Ph.D.	National Cancer Institute
Siegal, Gene P.	M.D., Ph.D.	Division of Anatomic Pathology, University of Alabama at Birmingham
Simcox, Amanda A.	Ph.D.	Department of Molecular Genetics, The Ohio State University
Simon, Michael S.	M.D., M.P.H.	Department of Internal Medicine, Wayne State University
Skafar, Debra F.	Ph.D.	Department of Physiology, Wayne State University School of Medicine
Skalnik, David	Ph.D.	Wells Center for Pediatric Research
Slack, Rebecca S.	M.S.	Biostatistics Unit, GUMC-Lombardi Cancer Center
Sleven, Miriam E.	M.S.	Saint Agnes Medical Center
Sloboda, Walter	M.A.	Executive Secretary
Sluder, Greenfield	Ph.D.	Department of Cell Biology, University of Massachusetts Medical Center
Smith, Allen N.	M.S.	Executive Secretary
Smith, Carolyn L.	Ph.D.	Department of Cell Biology, Baylor College of Medicine
Smith, David I.	Ph.D.	Department of Experimental Pathology, Mayo Foundation
Smith, Simon A.	Ph.D.	COMBS Research, University of Kentucky
Soloway, Paul	Ph.D.	Department of Molecular and Cell Biology, Roswell Park Cancer Institute
Sonenshein, Gail E.	Ph.D.	Department of Biochemistry, Boston University School of Medicine
Sonnenschein, Carlos	M.D.	Department of Anatomy & Cellular Biology, Tufts University School of Medicine
Southwick, Frederick S.	M.D.	Division of Infectious Diseases, University of Florida College of Medicine
Spinella, Michael	Ph.D.	Department of Pharmacology and Toxicology, Dartmouth Medical School
Stack, M. Sharon	Ph.D.	Department of Obstetrics and Gynecology, Northwestern University
Stamper, Hugh	Ph.D.	Executive Secretary
Stampfer, Martha R.	Ph.D.	Lawrence Berkeley National Laboratory
Stark, Nancy Norris	Ph.D.	Y-ME National Breast Cancer Organization
Stearns, Mark E.	Ph.D.	Department of Pathology, Medical College of Pennsylvania & Hahnemann
Struck, Robert F.	Ph.D.	Southern Research Institute
Sukumar, Saraswati	Ph.D.	Johns Hopkins School of Medicine, Breast Cancer Program
Summers, Raymond R.	Ph.D.	Executive Secretary
Sun, Luzhe	Ph.D.	Department of Surgery, University of Texas Health Science Center
Surmacz, Ewa	Ph.D.	Kimmel Cancer Institute, Thomas Jefferson University
Sylvester, Diane M.	Ph.D.	Department of Pharmacology, Albany College of Pharmacy
Tainsky, Michael A.	Ph.D.	Karmanos Cancer Institute, Wayne State University
Talmadge, James E.	Ph.D.	Department of Pathology and Microbiology, University of Nebraska Medical Center
Tang, Careen K.	Ph.D.	Lombardi Cancer Center, Georgetown University Medical Center
Tate, Arlene Banks	M.S.	Howard County Breast Cancer/Howard County General Hospital/ American Cancer Society
Telang, Nitin T.	Ph.D.	Strang Cancer Research Laboratory
Tew, Kenneth D.	Ph.D.	Department of Pharmacology, Fox Chase Cancer Center
Thomas, Kelwyn H.	Ph.D.	Department of Anatomy, Morehouse School of Medicine

Peer Reviewer	Degree	Institution/Affiliation
Thompson, Henry	Ph.D.	AMC Cancer Research Center
Thompson, Linda F.	Ph.D.	Department of Immunology and Cancer, Oklahoma Medical Research Foundation
Tonetti, Debra A.	Ph.D.	Robert H. Lurie Comprehensive Cancer Center, Northwestern University
Toole, Bryan P.	Ph.D.	Department of Anatomy and Cell Biology, Tufts Medical School
Tosher, Vicki		Colorado Breast Cancer Coalition
Townsend, Alan J.	Ph.D.	Department of Biochemistry, Wake Forest University School of Medicine
Trax, Ann Henninger	Ph.D.	Bremer County Breast Cancer Education and Support Group
Troy, Frederic A., II	Ph.D.	Department of Medicine: Biological Chemistry, University of California School of Medicine
Lo, Dorothy Tuan	Ph.D.	Department of Biochemistry & Molecular Biology, Medical College of Georgia
Turley, Eva	Ph.D.	Department of Cardio-Vascular Research, University of Toronto/The Hospital for Sick Children
Tuszynski, George	Ph.D.	Department of Pathology, MCP Hahnemann University
Umbreit, Jay N.	M.D., Ph.D.	Department of Hematology/Oncology, University of South Alabama
Varia, Mahesh A.	M.D.	Department of Radiation Oncology, CB7512, University of North Carolina, School of Medicine
Velicer, Wayne F.	Ph.D.	Cancer Prevention Research Center, University of Rhode Island
Vetter, John R.	Ph.D.	Department of Medical Physics, University of Wisconsin
Vidrine, Jacqueline	Ph.D.	Louisiana Breast Cancer Task Force
Vigneron, Daniel B.	Ph.D.	Department of Radiology, University of California, San Francisco
Visscher, Daniel W.	M.D.	Department of Pathology, Wayne State University School of Medicine
Vonderhaar, Barbara K.	Ph.D.	National Cancer Institute
Wagner, Kay-Uwe	Ph.D.	Animal Genetics, University of Nebraska
Walker, Cheryl L.	Ph.D.	Department of Carcinogenesis, University of Texas M.D. Anderson Cancer Center
Wallenstein, Sylvan	Ph.D.	Department of Biomathematical Sciences, Mount Sinai Medical Center
Wang, Ge	Ph.D.	Department of Radiology, University of Iowa
Wang, Joseph Y.	Ph.D.	Department of Electrical Engineering and Computer Science, Catholic University of America
Wang, Jyming	M.D.	American Cancer Society, Eastern Division, Chinese Unit
Ward, John H.	M.D.	Oncology Division, University of Utah
Ward, Peter A.	M.D.	Department of Pathology, University of Michigan Medical School
Waring, Patricia Y.	M.P.H., M.A.	BLOOMERS (Orange County Chapter, Y-ME)
Watson, Cheryl S.	Ph.D.	Department of Human Biological Chemistry, University of Texas Medical Branch
Watson, Nola Hylton	Ph.D.	Department of Radiology, University of California, San Francisco
Weber, Georg F.	M.D., Ph.D.	Department of Cancer Immunology and AIDS, Dana Farber Cancer Institute
Weigel, Nancy L.	Ph.D.	Department of Cell Biology, Baylor College of Medicine
Weissman, Bernard E.	Ph.D.	Lineberger Cancer Center, University of North Carolina at Chapel Hill
Westerlind, Kim C.	Ph.D.	AMC Cancer Research Center
Whiteside, Theresa	Ph.D.	Immunologic Monitoring Lab
Whiting, Bruce R.	Ph.D.	Department of Radiology, Washington University School of Medicine
Wiemer, David F.	Ph.D.	Department of Chemistry, University of Iowa
Williams, Carol L.	Ph.D.	Department of Molecular Pharmacology, Guthrie Research Institute
Williams, Sara	M.A.	Chapel Hill Breast Cancer Support Group
Wilson, Brian C.	Ph.D.	Department of Medical Biophysics, Ontario Cancer Institute/University of Toronto

Peer Reviewer	Degree	Institution/Affiliation
Wiseman, Roger W.	Ph.D.	Laboratory of Molecular Carcinogenesis, National Institute of Environmental Health Sciences
Wittliff, James L.	M.D., Ph.D.	Hormone Receptor Laboratory, University of Louisville, Brown Cancer Center
Woloschak, Gayle E.	Ph.D.	Argonne National Laboratory
Wood, F. Edward	Ph.D.	Executive Secretary
Worstell, William A.	Ph.D.	Department of Physics, Boston University
Wrensch, Margaret	Ph.D., M.P.H.	Department of Epidemiology and Biostatistics, University of California at San Francisco
Xu, Xiangxi Mike	Ph.D.	Winship Cancer Center, Emory University School of Medicine
Yaffe, Martin J.	Ph.D.	Sunnybrook and Women's College Health Science Center
Yalowich, Jack	Ph.D.	Department of Pharmacology, University of Pittsburgh School of Medicine
Yamaguchi, Yoko F.	Ph.D.	Molecular Biology Department, Beckman Research Institute of the City of Hope
Yang, Yu-Chung	Ph.D.	Indiana University School of Medicine
Yannelli, John R.	Ph.D.	Department of Internal Medicine, University of Kentucky, Markey Cancer Center
Yee, Douglas	M.D.	University of Minnesota Cancer Center
Yeh, Shuyuan	Ph.D.	Department of Pathology, University of Rochester
Zajchowski, Deborah A.	Ph.D.	Department of Cancer Research, Berlex Laboratories
Zalutsky, Michael	Ph.D.	Department of Radiology, Duke University Medical Center
Zanjani, Esmail D.	Ph.D.	VA Medical Center
Zebovitz, Eugene	Ph.D.	Executive Secretary
Zier, Karen	Ph.D.	Mount Sinai School of Medicine
Zimmer, Stephen G.	Ph.D.	Department of Microbiology and Immunology, University of Kentucky
Zutter, Mary	M.D.	Department of Pathology, Washington University School of Medicine

FY99 Breast Cancer Research Program
Integration Panel (IP) Members

IP Member	Degree	Institution/Affiliation
Acosta, Daniel, Jr.	Ph.D.	University of Cincinnati College of Pharmacy
Barker, Anna (Chair Emeritus)	Ph.D.	BIO-NOVA, Inc.
Boone, John M.	Ph.D.	University of California, Davis
Burish, Thomas G. (Executive Committee Member)	Ph.D.	Vanderbilt University
Doi, Kunio	Ph.D.	University of Chicago
Herberman, Ronald B.	M.D.	University of Pittsburgh Cancer Institute
Hinestrosa, M. Carolina		<i>Nueva Vida</i>
Hortobagyi, Gabriel N.	M.D.	University of Texas M.D. Anderson Cancer Center
Jones, Lovell A.	Ph.D.	University of Texas M.D. Anderson Cancer Center
Kushi, Lawrence H.	Sc.D.	Columbia University
Matrisian, Lynn M. (Executive Committee Member)	Ph.D.	Vanderbilt University School of Medicine
Peters, Louanner	M.S.	Heritage Telecommunications
Pierce, Lori J.	M.D.	University of Michigan School of Medicine
Rauscher, Frank J., III	Ph.D.	Wistar Institute
Rosso, Rosemary	J.D.	Greater Baltimore/Washington Breast Cancer Advocacy Group
Rowinsky, Eric K.	M.D.	University of Texas Health Science Center, San Antonio
Seidman, Andrew D.	M.D.	Memorial Sloan-Kettering Cancer Center
Shinagawa, Susan M.		Intercultural Cancer Council
Slamon, Dennis (Chair-Elect)	M.D., Ph.D.	University of California, Los Angeles
Sledge, George W., Jr.	M.D.	Indiana University School of Medicine
Steeg, Patricia S.	Ph.D.	National Cancer Institute
Thomas, David B.	M.D., Dr.P.H.	Fred Hutchinson Cancer Research Center
Urban, Nicole	Sc.D.	Fred Hutchinson Cancer Research Center
Visco, Frances (Chair)	J.D.	National Breast Cancer Coalition

FY99 Breast Cancer Research Program
Ad Hoc Programmatic Reviewers

Ad Hoc Programmatic Reviewer	Degree	Institution/Affiliation
Ali-Osman, Francis	D.Sc.	University of Texas M.D. Anderson Cancer Center
Bedi, Atul	M.D.	The Johns Hopkins University School of Medicine
Bresnick, Edward	M.D.	Dartmouth Medical School
Brunswick, Christine	B.A., M.P.H.	National Breast Cancer Coalition
Casey, Graham	Ph.D.	Cleveland Clinic Foundation
Dickersin, Kay	Ph.D.	Brown University School of Medicine
El-Diery, Wafik	M.D., Ph.D.	University of Pennsylvania
Green, Bettye	R.N.	African American Women in Touch
Gudas, Jean	Ph.D.	Amgen, Inc.
Henninghausen, Lothar	Ph.D.	National Institute of Diabetes, Digestive and Kidney Disorders
Jones, Peter	Ph.D., D.Sc.	USC Comprehensive Cancer Center, University of Southern California School of Medicine
Medina, Daniel	Ph.D.	Baylor College of Medicine
Meltzer, Paul	M.D., Ph.D.	Nation Human Genome Research Institute
Ritenbaugh, Cheryl	M.P.H., Ph.D.	Kaiser Permanente Northwest Region
Rowden, Diana	M.A.	Susan G. Komen Breast Cancer Foundation
Rufenbarger, Connie	B.S.	Catherine Peachey Fund, Inc.
Ryan, Nancy	B.A.	New Hampshire Breast Cancer Coalition
Shay, Jerry	Ph.D.	University of Texas Southwestern Medical Center at Dallas
Yaker, Alice	J.D.	The Joseph L. Mailman, School of Public Health, Columbia University
Young, Rita	Ph.D.	Hines VA Hospital & Loyola University School of Medicine
Yu, Mimi	Ph.D.	USC School of Medicine

GLOSSARY OF TERMS

Glossary of Terms

Career Development Award: Career Development Awards (CDAs) are designed to encourage (1) scientists who have postdoctoral training, but are not yet established investigators, to pursue a breast cancer-related research career, as well as (2) established scientists 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 CDA 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 Translational Research Award: The intent of Clinical Translational Research (CTR) Awards is to extend recent findings in breast cancer research that offer the potential to revolutionize the practice of breast cancer care. CTR Awards support projects that are likely to have a major impact on the prevention, detection, diagnosis, and/or treatment of breast cancer by applying promising and well-founded laboratory or other preclinical research findings to the care of patients with, or populations at risk for, breast cancer.

Clinical Translational Research Career Development Award: The intent of the Clinical Translational Research (CTR) Career Development Awards (CDAs) is to train clinically oriented physicians and clinical investigators to serve as a dynamic bridge between the laboratory and the clinic. An overall goal of CTR CDAs is to encourage interested physicians to undertake clinical translational research in breast cancer. The research focus of CTR CDAs is on clinical translational research that is directly relevant to the prevention, detection, diagnosis, or treatment of breast cancer.

Clinical Translational Research Fellowship Award: The intent of the Clinical Translational Research (CTR) Fellowship Awards is to train clinically oriented physicians and clinical investigators to serve as a dynamic bridge between the laboratory and the clinic. An overall goal of CTR Fellowship Awards is to encourage interested physicians to undertake clinical translational research in breast cancer. The research focus of CTR Fellowship Awards is on clinical translational research that is directly relevant to the prevention, detection, diagnosis, or treatment of breast cancer. CTR Fellowship Awards are intended to enable recent medical degree graduates to obtain the necessary experience to pursue a career in clinical translational breast cancer research.

Collaborative-Clinical Translational Research Award: The goals of this new 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. The Collaborative-Clinical Translational Research (C-CTR) Awards are intended to support the development of the infrastructure required to facilitate the performance of well-designed clinical trials through new consortium models to evaluate promising drugs and technologies for the early detection, treatment, and prevention of breast cancer.

Concept Awards: The intent of these awards is to fund an initial concept or theory that could give rise to a testable hypothesis. These awards encourage the exploration of untested, innovative questions in breast cancer and provide funding for 1 year.

Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Focused Training Awards: These awards are intended to enable investigators at HBCU/MIs to collaborate, train, and acquire the knowledge and experience needed to prepare and submit high-quality proposals for breast cancer research. Major goals of this award are to attract new investigators to this research area and to establish collaboration between applicant investigators and established investigators in breast cancer research.

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 collaboration 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 fundable 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 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.

Institutional Training Grant Awards: Institutional Training Grant (ITG) Awards are intended to encourage the initiation of new training programs in breast cancer. These awards should draw pre- and/or postdoctoral students focused on breast cancer research together in a common research and training environment. These grants may emphasize the training of students from different disciplines (e.g., basic cancer biology; epidemiology; health services research; and clinical, behavioral, and social sciences) who have an underlying interest in breast cancer research.

Postdoctoral Traineeship Awards: The intent of Postdoctoral Traineeship Awards is to enable recent doctoral 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. 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.

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