

***Department of Defense
Breast Cancer
Research Program***

1998 Awards Book

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

INTRODUCTION

The Department of Defense (DOD) and the U.S. Army Medical Research and Materiel Command (USAMRMC) are pleased to present the awards for the fiscal year 1998 (FY98) Breast Cancer Research Program (BCRP). On September 30, 1999 award negotiations were completed, culminating 20 months of Program planning, proposal solicitation and evaluation, and award selection. In FY98, Congress appropriated \$135M for the DOD BCRP. This year, 1,322 proposals were received in response to the BCRP's Program Announcement, and 403 awards were made with the appropriation. Funded proposals were selected by a competitive two-tiered review process with scientific excellence judged in the peer/scientific review (the first tier) and programmatic relevance evaluated in the second tier of review. The resulting list of funded projects represents a diverse portfolio of scientific research aimed at fulfilling the Program's mission to eradicate breast cancer.

In FY98, the USAMRMC challenged the scientific community to design innovative research that would foster new directions for, address neglected issues in, and bring new investigators into the field of breast cancer research. Within this context, the objectives of the FY98 BCRP were to (1) prevent breast cancer, (2) detect breast cancer in its earliest stages of development, (3) cure breast cancer, and (4) improve the quality of life for individuals living with breast cancer and their families. Proposals were sought across all areas of laboratory, clinical, behavioral, and epidemiologic research including all disciplines within the basic, clinical, psychosocial, behavioral, sociocultural, and environmental sciences; nursing; occupational health; alternative therapies; public health and policy; and economics. The FY98 BCRP also encouraged submissions from minority investigators as well as investigators of any ethnicity working at Historically Black Colleges and Universities and Minority Institutions. Furthermore, proposals that addressed the needs of minority, elderly, low-income, rural, or other under-represented populations were encouraged. The programmatic strategy for the FY98 Program was to fund proposals in three categories: (1) Research Awards, (2) Training/Recruitment Awards, and (3) Academic Awards.

The Research Award category includes Idea and Clinical Translational Research (CTR) Awards. Idea Awards are intended to stimulate and reward creative research ideas that may be viewed as speculative, but have a potential for high payoff. CTR Awards support projects that apply promising, well-founded laboratory or other preclinical findings to the clinical care of patients with or populations at risk for breast cancer. In FY98, 240 Idea and 8 CTR grants were awarded.

The Training/Recruitment Award category consists of Pre- and Post-doctoral Traineeships, Institutional Training Grants (ITGs), and Career Development Awards (CDAs). The intent of Pre- and Post-doctoral Traineeships is to support promising graduate students and recent doctoral degree graduates with limited post-doctoral experience, respectively, in the field of breast cancer. ITGs are intended to encourage the initiation of new training programs in breast cancer. CDAs support individuals with post-doctoral training who are not yet established investigators to pursue a breast cancer-related career, as well as established individuals who work in other areas but want to shift their research focus to breast cancer. In FY98, 61 Pre-doctoral Traineeships, 48 Post-doctoral Traineeships, 9 ITGs, and 25 CDAs were awarded.

The Academic Awards represent a new funding mechanism for the BCRP. The intent of this award is to fund established and productive scientists of proven high ability, affording them the opportunity to critically appraise the state of the science in a particular aspect of breast cancer research and to forge new avenues of investigation. Twelve Academic Awards were made in FY98.

As scientists embark on these projects, the DOD and the U.S. Army gratefully acknowledge the participation of their scientific advisors, breast cancer survivors, and consumer advocates. The expertise, diversity of perspectives, and vision of all members who contributed to this Program are vital to developing the soundest investment on behalf of all persons living with or at risk for breast cancer. It is with great anticipation and excitement that we await the outcomes of this research.

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RESEARCH AWARDS

**FY98 Breast Cancer Research Program
Clinical Translational Research Awards**

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC984044	Bystryn	Jean-Claude	New York University School of Medicine	\$1,180,379	Polypeptide Vaccine in IL-2 Liposomes for Breast Cancer
BC984013	Das Gupta	Tapas K.	University of Illinois at Chicago	\$1,619,362	1 α -Hydroxyvitamin D ₅ as a Chemotherapeutic and Possibly Chemopreventive Agent
BC984038	Davidson	Nancy E.	Johns Hopkins University	\$513,636	Therapeutic and Chemopreventive Actions of a Novel Polyamine Analog against Breast Cancer
BC970187	Fajardo	Laurie L.	Johns Hopkins University	\$1,096,900	Clinical Evaluation of Digital Mammography
BC984008	Li	Benjamin D.	Lousiana State University Medical Center	\$307,638	High eIF4E Overexpression in Node Negative Breast Cancer as Predictor for Recurrence
BC984023	Samlowski	Wolfram E.	University of Utah	\$1,418,447	Randomized Trial of Interleukin-2 (IL-2), as Early Consolidation Following Marrow Ablative Therapy with Stem Cell Rescue for Metastatic Breast Cancer
BC984021	Sklansky	Jack	Charles R. Drew University of Medicine and Science	\$1,926,299	Database-Aided Diagnosis in Digital Mammography
BC984090	Thompson	Henry J.	AMC Cancer Research Center	\$1,020,530	DNA Damage, Fruits and Vegetables and Breast Cancer Prevention

**FY98 Breast Cancer Research Program
Idea Awards**

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980731	Achary	Patnala M.	Albert Einstein College of Medicine	\$351,926	Molecular Markers of Metastasis in Ductal Mammary Carcinoma
BC980612	Adjei	Araba A.	Mayo Clinic and Foundation	\$289,727	Estrogen-Mediated Breast Carcinogenesis: The Role of Sulfation Pharmacogenetics
BC980640	Ahmed	Nasar U.	Meharry Medical College	\$303,105	Empowering Factors among Breast Cancer Screening Compliant Underserved Populations
BC980976	Alexandropoulos	Konstantina	Columbia University	\$358,050	Murine Models of Breast Cancer: Assessment of the Role of c-Src in Mammary Tumorigenesis
BC980025	Allen	Barry J.	St. George Hospital	\$209,900	Targeted Alpha Therapy Using Components of the Plasminogen Activation System for the Control of Micrometastatic Breast Cancer
BC980946	Andrulis	Irene L.	Samuel Lunenfeld Research Institute	\$139,432	Characterization of LAF-4, a Putative Proto-Oncogene Involved in the Development of Breast Cancer
BC980027	Archer	Michael C.	University of Toronto	\$271,049	Regulation of the Mevalonate Pathway for the Prevention of Breast Cancer
BC980347	Ashing-Giwa	Kimlin	University of California, Los Angeles	\$761,421	Identifying Quality of Life and Psychosocial Risk Factors and Their Sociocultural Mediators in African American, Filipino, Latino, and White Breast Cancer Survivors
BC980471	Ashkar	Samy	Children's Hospital	\$332,610	Osteopontin CD44 Interaction: A Novel Mechanism for the Selective Homing of Breast Tumor Cells into Bone
BC980633	Athwal	Raghibir S.	Temple University	\$316,050	Cloning and Characterization of a Cell Senescence Gene for Breast Cancer Cells
BC980169	Avraham	Hava	Beth Israel Deaconess Medical Center	\$365,400	Studies of Vascular Endothelial Growth Factor (VEGF) Signaling in Breast Cancer Cells
BC980069	Banda	Michael J.	Lawrence Berkeley National Laboratory	\$363,937	Novel Breast Tumor Metalloproteinase Inhibitor
BC980011	Banerjee	Sipra	Cleveland Clinic Foundation	\$306,675	Role of a Defective Repair Gene, DNA Polymerase (Beta) in Breast Carcinogenesis

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC981214	Baranowska-Kortylewicz	Janina	University of Nebraska Medical Center	\$296,967	A Novel Approach to Breast Cancer Treatment and the Evaluation of Tumor Growth Potential Based on Epidermal Growth Factor and S-Phase Specific Agents
BC980737	Barnett	Junaidah B.	Tufts University	\$820,000	Body Fat Phenotypes, Sex Hormones, and Breast Cancer Risk in Postmenopausal African American Women
BC980585	Beck	William T.	University of Illinois	\$326,130	Role of Drug-Induced Fas Ligand Expression in Breast Tumor Progression
BC980654	Bedi	Atul	Johns Hopkins University	\$345,395	Inhibition of Breast Cancer by Repression of Angiogenic Hypoxia-Inducible Transcription Factors
BC980067	Beerman	Terry A.	Health Research, Inc.	\$228,541	Discovery of DNA Binding Anticancer Drugs That Target Oncogenic Transcription Factors Associated with Human Breast Cancer
BC980081	Belinsky	Steven A.	Lovelace Biomedical and Environmental Research Institute	\$370,018	Critical Role for Aberrant CpG Island Methylation in the Evolution and Progression of Breast Cancer: Characterization of Known Genes and Identification of Novel Genes
BC980018	Bourguignon	Lilly Y.	University of Miami Medical School	\$315,000	A Novel Signaling Perturbation and Ribozyme Gene Therapy Procedure to Block Rho-Kinase (ROK) Activation and Breast Tumor Metastasis
BC980421	Brown	Stephen L.	Henry Ford Health System	\$258,850	NMR with Combined Antiangiogenic and Radiation Therapies – Breast Cancer
BC980613	Burbelo	Peter D.	Georgetown University Medical Center	\$327,835	Identifying Intracellular Targeting Sequences for Breast Cancer Cells Using a Genetic Screen
BC981069	Burhansstipanov	Linda	National Indian Health Board	\$298,243	National Native American Breast Cancer Survivors Network
BC980367	Bzik	David J.	Dartmouth College	\$322,506	Targeting a Novel Vector for Breast Cancer Gene Therapy
BC980078	Cadenas	Enrique	University of Southern California	\$336,511	Plant Estrogens: Effects on Cell Cycle Progression in Breast Cancer Cells
BC980376	Campbell	Patricia	University of Washington	\$310,351	NMR-Guided Design of a MUC-1 Synthetic Peptide Cancer Vaccine
BC981105	Chakraborty	Dev P.	University of Pennsylvania	\$235,331	Quantitative Image Quality Analysis of Soft Copy Displays

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC981011	Chen	David J.	Lawrence Berkeley National Laboratory	\$303,586	Roles of BRCA2 Gene in Homologous Recombination and Genomic Stability
BC980052	Chen	Phang-Lang	University of Texas Health Science Center at San Antonio	\$304,500	BRCA2 and the DNA Double-Strand Break Repair Machinery
BC980253	Chen	Wen Y.	Clemson University	\$307,725	Rational Design of Human Prolactin Receptor Antagonists for Breast Cancer Therapy
BC971737	Chodosh	Lewis A.	University of Pennsylvania	\$331,021	Novel Protein Kinases in Mammary Gland Development and Carcinogenesis
BC980408	Chodosh	Lewis A.	University of Pennsylvania	\$322,044	Effect of Reproductive History on Mammary Epithelial Biology
BC980410	Chodosh	Lewis A.	University of Pennsylvania	\$314,804	Role of Hunk and Punc in Breast Cancer and Mammary Development
BC980849	Chodosh	Lewis A.	University of Pennsylvania	\$327,559	ATM Function in Mammary Development and Breast Cancer Risk
BC980054	Christov	Konstantin	University of Illinois	\$325,859	Sensitivity of Primary Breast Cancer Cells to Retinoids. Potential Clinical Implications
BC980742	Cibotti	Ricardo	Vaccinex L.P.	\$297,689	Target Antigens for Breast Cancer Vaccines
BC981185	Clinton	Gail M.	Oregon Health Sciences University	\$312,761	Her-2/neu Shedding and Oncogenesis
BC981021	Clynes	Raphael A.	Columbia University	\$405,865	Cytotoxic Mechanisms of Tumor Specific Antibodies
BC981027	Cohn	Barbara A.	Public Health Institute	\$370,750	The Epidemiology of Growth Factors and Immune Function in Pregnancy: Relation to Maternal Breast Cancer
BC980718	Condeelis	John S.	Albert Einstein College of Medicine	\$352,275	Isolation of Motile Tumor Cells from Live Breast Tumors
BC980991	Couch	Fergus J.	Mayo Clinic and Foundation	\$300,510	Identification of Genes in a Novel 17q22-24 Amplification Region and Investigation of the Transforming Properties of a Candidate Oncogene
BC980900	Cowburn	David A.	Rockefeller University	\$346,482	Rational Design of Regulators of Programmed Cell Death in Human Breast Cancer
BC980338	Cowell	John K.	Cleveland Clinic Foundation	\$306,732	Analysis of the TACC1 Gene from the 8p11 Chromosome Region Frequently Amplified in Metastasizing Breast Cancer
BC981239	Creighton	Donald J.	University of Maryland, Baltimore County	\$295,893	Inhibition of Tumor Cells That Over-Express (pi) GST

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980484	Cunningham	Ian A.	John P. Roberts Research Institute	\$272,111	New Transfer-Theory Relationships for Signal and Noise Analyses of X-ray Detectors
BC980538	David	Michele	Boston University	\$356,387	Communication, Cultural Models of Breast Cancer Beliefs, and Screening Mammography: An Assessment of Attitudes among Haitian Immigrant Women in Eastern Massachusetts
BC980260	Deisseroth	Albert B.	Yale University	\$343,350	Tumor Specific Gene Expression and Tumor Specific Vector Replication for Systemic Chemotherapy Sensitization Treatment of Breast Cancer
BC980168	Dewhurst	Stephen	University of Rochester	\$330,983	Selective DNA Delivery to Breast Cancer Cells
BC980531	Dickson	Robert B.	Georgetown University Medical Center	\$327,948	A Novel Serine Protease Target for Prevention of Breast Cancer by a Soy Bean-Derived Inhibitor
BC980532	Dickson	Robert B.	Georgetown University Medical Center	\$492,810	Characterization of Early Genomic Changes in Mammary Glands of High Risk Women
BC980045	Ding	Yu-Shin	Brookhaven National Laboratory	\$404,446	PET Imaging of Estrogen Metabolism in Breast Cancer
BC980871	Drebin	Jeffrey A.	Washington University	\$322,052	HER2/neu Antisense Therapeutics in Human Breast Cancer
BC980099	Eckert	Richard L.	Case Western Reserve University	\$326,717	TIG3-A Novel Inhibitor of Breast Cancer Cell Proliferation
BC980053	Ely	Kathryn R.	The Burnham Institute	\$269,660	Tumor Suppressors and Breast Cancer: Molecular Interactions of Retinoblastoma Protein (Rb) with a New Rb-binding Protein (RIZ)
BC981057	Ernst	Thomas M.	Harbor-UCLA Research and Education Institute	\$294,818	Brain Function, Structure, and Neurochemistry after Tamoxifen/Chemotherapy Assessed by Neuropsychologic Testing and ¹ H Magnetic Resonance Spectroscopy
BC980110	Eshhar	Zelig	Weizmann Institute of Science	\$289,177	New Strategy for the Redirection of Cytolytic T Lymphocytes to Breast Tumors

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980890	Eyfjord	Jorunn E.	Icelandic Cancer Society	\$546,150	The Impact of Risk Factors and Genetic Polymorphism in Metabolic Enzymes on Breast Cancer Risk in BRCA1 and BRCA2 Mutation Carriers and Non-Mutation Carriers. A Population-Based Study
BC980999	Fajardo	Laurie L.	Johns Hopkins University	\$314,373	Automatic Exposure Control Device for Digital Mammography
BC980140	Fantini	Sergio	Tufts University	\$310,323	Frequency-Domain Optical Mammography
BC980596	Feinberg	Andrew P.	Johns Hopkins University	\$343,963	Relaxation of RNA Splicing Fidelity in Human Breast Cancer
BC980694	Felding-Habermann	Brunhilde	Scripps Research Institute	\$364,503	Adhesive Mechanisms in Breast Cancer Metastasis
BC980877	Fishel	Richard A.	Thomas Jefferson University	\$300,000	hRAD51 Involvement in Genomic Instability and the Development of Breast Cancer
BC981111	Floyd	Carey E.	Duke University Medical Center	\$308,879	Computer Aid for the Decision to Biopsy Breast Lesions
BC980955	Fox	Bernard A.	Providence Portland Medical Center	\$202,126	Antitumor Activity Correlates with the Generation of Breast Tumor-Specific Type I T Cells
BC980415	Frackelton	Raymond A.	Roger Williams General Hospital	\$370,650	Use of Active State Specific Antibodies to Shc for Assessing Breast Cancer Prognosis
BC980705	Franke	Thomas F.	Columbia University	\$358,050	Role of Akt Signal Transduction in Mammary Oncogenesis
BC980637	Fuchs	Ephraim J.	Johns Hopkins University	\$345,396	Adoptive Immunotherapy of Advanced Breast Cancer Using T Cells from Allogeneic Donors
BC980668	Fuchs-Young	Robin S.	University of Texas M.D. Anderson Cancer Center	\$201,682	The Role of Myoepithelium in Mammary Development and Tumorigenesis
BC980898	Fuqua	Suzanne A. W.	Baylor College of Medicine	\$309,381	Predicting Response to Adjuvant Therapy with Tamoxifen
BC980805	Gabrielson	Edward W.	Johns Hopkins University	\$343,624	Development of a Diagnostic Blood Test for Breast Cancer
BC980062	Gamcsik	Michael P.	Duke University Medical Center	\$322,342	Dynamic Monitoring of Glutathione Metabolism in Breast Cancer Cells
BC980012	Garlick	George F.	Advanced Diagnostics, Inc.	\$284,515	Evaluation of Optical Sonography™ for Real-Time Breast Imaging and Biopsy Guidance
BC981000	Gehm	Barry D.	Northwestern University	\$306,940	Resveratrol as an Estrogen: Mechanism and Implications for Breast Cancer

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC981013	Ghosh-Choudhury	Nandini	University of Texas Health Science Center at San Antonio	\$298,059	Mechanism for Controlling Breast Cancer Growth and Skeletal Metastasis
BC981209	Giger	Maryellen L.	University of Chicago	\$317,020	A New Model for the Estimation of Breast Cancer Risk
BC980761	Glazer	Robert I.	Georgetown University Medical Center	\$322,603	The Role of AKT1 in Mammary Tumorigenesis and Transformation
BC980006	Goetzl	Edward J.	University of California, San Francisco	\$305,949	Lysophospholipid Receptors and Effects in Breast Cancer
BC981102	Gomer	Charles J.	Children's Hospital of Los Angeles	\$313,530	Photodynamic Therapy Oxidative Stress as a Molecular Switch Controlling Therapeutic Gene Expression for the Treatment of Locally Recurrent Breast Carcinoma
BC980369	Goodsitt	Mitchell M.	University of Michigan	\$312,819	Automated Spot Mammography for Improved Imaging of Dense Breasts
BC980910	Greene	Geoffrey L.	University of Chicago	\$316,938	Comparative Structural Analysis of ER α and ER β Bound to Selective Estrogen Agonists and Antagonists
BC980323	Greenlee	William F.	University of Massachusetts Medical Center	\$218,400	Ah Receptor-Dependent Suppression of Human Mammary Tumor Cell Growth and Invasion
BC980872	Griffin	Constance A.	Johns Hopkins University	\$343,956	Identification of Chromosome Alterations in Primary Breast Cancer Using Premature Chromosome Condensation
BC980772	Gudas	Lorraine J.	Weill Medical College of Cornell University	\$374,067	Aberrant Homeobox Gene Expression in Mammary Tumorigenesis
BC980221	Hadsell	Darryl L.	Baylor College of Medicine	\$306,766	USF-1 as an Inhibitor of Mammary Gland Carcinogenesis
BC980734	Halazonetis	Thanos D.	Wistar Institute	\$338,234	Interaction of p53 with 14-3-3
BC981164	Hamilton	Andrew D.	Yale University School of Medicine	\$336,103	Growth Factor Antagonism in Breast Cancer Chemotherapy
BC980205	Hanson	Robert N.	Northeastern University	\$288,262	A Structure-Based, Solid Phase Synthesis Approach to the Development of Novel Selective Estrogen Receptor Modulatory Sterioids
BC981125	Harper	Jeffrey W.	Baylor College of Medicine	\$308,346	Regulation of NF (κ) B-Dependent Cell Survival Signals through the SCF (slimb) Ubiquitin Ligase Pathway
BC981191	Hayes-Bautista	David E.	University of California, Los Angeles	\$258,224	Latina Breast Cancer Patients and Their Informal Support System

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980289	Hazen	Stanley L.	Cleveland Clinic Foundation	\$304,500	Eosinophils as Mediators of DNA Oxidative Damage in Breast Cancer
BC980404	Hebert	James R.	University of South Carolina	\$327,587	Phase 1 Induction and Estrogen Metabolism in Women with and without Breast Cancer and in Response to a Dietary Intervention
BC980963	Helfman	David M.	Cold Spring Harbor Laboratory	\$352,800	Adhesion-Dependent Regulation of Cell Growth and Apoptosis in Human Breast Cancer
BC980939	Hess	Allan D.	Johns Hopkins University	\$342,216	Strategic Manipulation of Tumor Antigens to Enhance Immunogenicity
BC980229	Hines	Jennifer V.	Ohio State University	\$301,839	Paramagnetic Oligonucleotides for Breast Cancer Imaging
BC981225	Horwitz	Kathryn B.	University of Colorado Health Sciences Center	\$317,100	Tamoxifen-Resistant Breast Cancers: Inappropriate Transcriptional Coregulators?
BC980972	Hsu	Lih-Ching	University of Utah	\$313,908	Functional Studies of BRCA1 and BRCA2 during Mitosis
BC980466	Ikeda	Debra M.	Stanford University	\$325,044	Magnetic Resonance Spectroscopy of Breast Disease
BC981193	Ingles	Sue A.	University of Southern California	\$423,022	Genetic Determinants of Aromatase Expression and Susceptibility to Postmenopausal Breast Cancer
BC980642	Inoue	Nozomu	Johns Hopkins University	\$264,709	Prediction of Pathologic Fracture Risk in Activities of Daily Living and Rehabilitation of Patients with Metastatic Breast Carcinoma of the Pelvis and Femur
BC980215	Ironson	Gail	University of Miami	\$290,523	Massage Therapy for Reducing Stress Hormones and Enhancing Immune Function in Breast Cancer Survivors
BC981184	Jacobs	Jennifer	University of Washington	\$221,188	Is Homeopathy Effective for Hot Flashes and Other Estrogen-Withdrawal Symptoms in Breast Cancer Survivors? A Preliminary Randomized Controlled Trial
BC980498	Jeng	Meei-Huey	University of Virginia	\$309,477	Roles of Steroid Receptor Coactivators in Breast Cancer
BC981072	Jensen	Roy A.	Vanderbilt University Medical Center	\$318,384	BRCA2 Expression as a Predictor of Response to Radiation Therapy
BC980916	Jupe	Eldon R.	Oklahoma Medical Research Foundation	\$334,510	Prohibiting RNA Therapy in Breast Cancer
BC980197	Kallman	Jeffrey S.	Lawrence Livermore National Laboratory	\$325,125	Rapid, High Resolution 3D Ultrasound Tomography

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980784	Kandel	Rita A.	Mount Sinai Hospital	\$291,268	Are p53 Mutations Associated with Increased Risk of Developing Breast Cancer? A Molecular Epidemiological Study
BC980632	Kandpal	Rajendra J.	Temple University	\$316,050	Involvement of a Novel Rho GTPase Activating Protein in Breast Tumorigenesis
BC981147	Karczmar	Gregory S.	University of Chicago	\$286,673	Improved MR Images of Breast Lesions with Fast Spectroscopic Imaging
BC980554	Kasahara	Noriyuki	University of Southern California	\$333,976	Improving Retroviral Vectors for Gene Therapy of Breast Cancer
BC980325	Kedes	Laurence H.	University of Southern California	\$341,901	A Novel Gene Delivery System Targeted to Breast Cancer Cells
BC980158	Kennedy	Katherine A.	George Washington University	\$331,800	Physiological Stress-Induced Drug Resistance and Its Reversal
BC980806	Kim	Hyeong-Reh C.	Wayne State University	\$304,501	Galectin-3 in the Regulation of Apoptosis Induced by Loss of Cell-Matrix Interactions
BC980870	Kirschmann	Dawn A.	University of Iowa	\$290,553	Role of Lysyl Oxidase in Breast Cancer Invasive and Metastatic Phenotype
BC980420	Klostergaard	Jim	University of Texas M.D. Anderson Cancer Center	\$317,100	Liposomal Sphingolipids to Target Breast Adenocarcinoma Apoptosis
BC980739	Krag	David N.	University of Vermont	\$316,921	Identification of Small Ligands Targeting Breast Cancer by <i>In Vivo</i> Screening of Peptide Libraries in Breast Cancer Patients
BC981032	Kurzer	Mindy S.	University of Minnesota	\$292,188	Soy, Probiotics, and Breast Cancer Prevention
BC980287	Kushner	Peter J.	University of California, San Francisco	\$309,750	The Cellular Targets of Estrogen in Mammary Ductal Development
BC980329	Kushner	Peter J.	University of California, San Francisco	\$306,750	Src-JNK Potentiation of Estrogen Receptor AF-1; Mechanism, and Role in Estrogen Action in Breast Cancer
BC980071	Lachman	Lawrence B.	University of Texas M.D. Anderson Cancer Center	\$315,113	DNA Vaccination against Metastatic Breast Cancer
BC980933	Laine	Andrew F.	Columbia University	\$343,653	Model- and Expansion-Based Methods of Detection of Small Masses in Radiographs of Dense Breasts
BC980536	Lao	Lixing	University of Maryland	\$257,342	A Controlled Study Using Acupuncture as an Adjuvant to Treat Chemotherapy Induced Nausea and Vomiting

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980127	Latchman	David S.	University College, London	\$351,454	Regulation of BRCA-1 Gene Expression and Mammary Tumorigenesis by the Brn-3b POU Family Transcription Factor
BC980842	Lee	Patrick W.	Calgary University	\$210,000	The Use of Reovirus as an Anti-Breast Cancer Agent
BC980996	Lesko	Stephen A.	Cell Works Incorporated	\$210,000	Concurrent Measurement of Growth and Cell Arrest Markers, Aneuploidy, and Estrogen Receptor Status of Circulating Breast Cancer Cells
BC980486	Li	Guo-Min	University of Kentucky	\$305,547	Role of Mismatch Repair in Breast Cancer
BC980355	Li	Rong	University of Virginia	\$317,466	Chromatin Remodeling Function of BRCA1 and Its Implication in Regulation of DNA Replication
BC980411	Ling	C. Clifton	Sloan-Kettering Cancer Center	\$221,619	Non-invasive PET Imaging of Human Breast Xenografts: Influence of Tumor Hypoxia
BC980783	Lu	Hsiao-Ming	Dana-Farber Cancer Institute	\$208,520	Avoiding Late Cardiac Effects of Radiation Treatment of Breast Cancer by Simple Respiratory Maneuvers
BC980909	Lu	Junxuan	AMC Cancer Research Center	\$354,900	Angiogenesis and Cancer Prevention by Selenium
BC980281	Lue	Neal F.	Weill Medical College of Cornell University	\$366,130	Structural and Functional Characterization of a Telomerase-Associated Endonuclease
BC980388	Marmorstein	Ronen	Wistar Institute	\$319,698	Structure of the Tetrameric p53 Tumor Suppressor Bound to DNA
BC980020	Mason	Ralph P.	University of Texas Southwestern Medical Center at Dallas	\$334,043	Breast Tumor pH: Design, Evaluation, and Application of Novel Reporter Molecules
BC980290	Matsumoto	Tomohiro	Albert Einstein College of Medicine	\$348,255	Role of the Spindle Checkpoint in Preventing Breast Cancer
BC980545	McKenzie	Ian	Austin Research Institute	\$315,000	Vaccine Development against Novel Breast Cancer Antigens
BC981169	Mignatti	Paolo	New York University School of Medicine	\$346,422	Modulation of Breast Cancer Cell Functions by Intracellular Signaling through the Membrane Type-I Matrix Metalloproteinase
BC980928	Mohanakumar	Thalachallour	Washington University	\$317,610	Definition of the T Cell-Mediated Immune Response to Mammaglobin, a Novel Breast Cancer-Associated Protein
BC980134	Morrison	Sherie L.	University of California, Los Angeles	\$320,977	Antibody-Cytokine Fusion Proteins for the Therapy of Breast Cancer

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980407	Muller	William J.	McMaster University	\$181,308	The Role of the Integrin-Linked Kinase (ILK) in Mammary Tumorigenesis and Metastasis
BC980602	Murphy	Laura L.	Southern Illinois University, Carbondale	\$295,701	American Ginseng in the Prevention and Treatment of Human Breast Cancer
BC980143	Muti	Paola C.	State University of New York	\$238,160	Insulin and Breast Cancer Risk
BC981234	Nagarajan	Lalitha	University of Texas M.D. Anderson Cancer Center	\$317,053	Long Interspersed Nuclear Element (LINE) Mediated Genomic Instability
BC980017	Nawaz	Zafar	Baylor College of Medicine	\$310,800	Role of Nuclear Hormone Receptor Coactivator, E6-Associated Protein (E6-AP) in the Development of Breast Cancer
BC981166	Nichols	Mark D.	University of Pittsburgh	\$311,899	A Rapid Test for Detection of Potentially Altered Forms of the Estrogen Receptor Leading to Breast Cancer
BC981136	Nishikawa	Robert M.	University of Chicago	\$301,649	A Method for Simulating Mammograms
BC980983	Ntambi	James M.	University of Wisconsin	\$297,194	Genetic Regulation of Lipid Biogenesis in Human Breast Cancer
BC980295	Nusse	Roel	Stanford University School of Medicine	\$280,264	A Novel Gene with a Potential Tumor Suppressor Phenotype
BC980648	Ochieng	Josiah	Meharry Medical College	\$258,419	The Role of Galectin-3 in the Interactions between Breast Carcinoma Cells and Elastin
BC980493	Oraevsky	Alexander A.	University of Texas Medical Branch at Galveston	\$404,631	Opto-Acoustic Tomography for Early Detection of Breast Cancer
BC980212	Ormandy	Christopher J.	Garvan Institute of Medical Research	\$209,999	Investigation of the Role of the Mitogenic Neuropeptide Galanin in Mammary Gland Development and Carcinogenesis
BC980993	Ozcelik	Hilmi	Mount Sinai Hospital	\$132,717	Investigation of Trinucleotide Repeat Expansion in Familial Breast Cancer
BC980801	Packard	Alan B.	Children's Hospital	\$289,257	Functional Imaging of Multidrug Resistance in Breast Cancer with PET
BC980162	Padgett	Richard W.	Rutgers University	\$327,600	Cell Cycle Regulation by TGF β Signaling in <i>C. elegans</i>
BC981201	Papadopoulos	Vassilios	Georgetown University Medical Center	\$327,717	Peripheral Benzodiazepine Receptor (PBR) in Human Breast Cancer
BC980874	Pasternack	Gary R.	Johns Hopkins University	\$344,009	Pathobiology of pp32 in Breast Cancer
BC980905	Patenaude	Andrea F.	Dana-Farber Cancer Institute	\$333,899	Prophylactic Mastectomy: Impact and Intervention

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980070	Patrick, Jr.	Charles W.	University of Texas M.D. Anderson Cancer Center	\$296,217	Breast Reconstruction Using Tissue Engineering
BC981045	Pietenpol	Jennifer A.	Vanderbilt University	\$320,613	The Role of Mitotic Events in Taxol-Mediated Apoptosis in Breast Cancer Cells
BC980344	Pietras	Richard	University of California, Los Angeles	\$320,950	Peptide Antiestrogens for Human Breast Cancer Therapy
BC981093	Pinkerton	Alan A.	University of Toledo	\$257,962	Measurement of the Electron Density Distribution of Estrogens – A First Step to Advanced Drug Design
BC980836	Pisano	Etta D.	University of North Carolina at Chapel Hill	\$215,831	Radiologist Evaluation of DEI Breast Specimen Imaging
BC980800	Planas-Silva	Maricarmen D.	Whitehead Institute for Biomedical Research	\$347,130	Identification of Genes Conferring Estrogen-Mediated Cyclin D1 Expression in Breast Cancer Cells through Retroviral Expression Cloning
BC980152	Plewes	Donald B.	Sunnybrook Health Science Center	\$209,970	MRI Assessment of the Viscoelastic Properties of Normal and Abnormal Breast Tissue
BC980414	Polunovsky	Vitaly A.	University of Minnesota	\$308,173	A Novel Approach to Increase Breast Cancer Chemosensitivity: Disruption of the Anti-Apoptotic Function of Translation Factor eIF4E
BC980568	Prasad	Gaddamanugu L.	Temple University School of Medicine	\$316,050	Tropomyosin-1: A Novel Class II Tumor Suppressor and a Biomarker of Breast Cancer
BC981056	Rabinowich	Hannah	University of Pittsburgh	\$312,201	Protective Mechanisms against Lymphocyte Apoptosis Induced by Breast Carcinoma
BC980557	Rabkin	Samuel D.	Georgetown University Medical Center	\$322,076	Replication-Competent Herpes Simplex Virus Vectors for the Treatment of Breast Cancer: Mammary Tumors <i>In Situ</i> and Metastatic to the Brain
BC981117	Ramaprasad	Subbaraya	University of Arkansas	\$328,036	Magnetic Resonance Studies of Photosensitizers and Their Effect in Tumors
BC980261	Reddy	E. Shyam P.	MCP Hahnemann University	\$324,569	Tumor Suppressors and Breast Cancer
BC980304	Reynolds	Albert B.	Vanderbilt University Medical Center	\$318,373	Role of the Catenin p120 in Breast Cancer
BC980262	Richmond	Robert C.	National Aeronautical and Space Administration (NASA)	\$208,774	Cell and Molecular Biology of Ataxia-Telangiectasia Heterozygous Human Mammary Epithelial Cells Irradiated in Culture

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980584	Riegel	Anna T.	Georgetown University Medical Center	\$326,075	Ribozyme Targeting of Steroid Receptor Co-Activators: A Therapeutic Approach in Breast Cancer
BC980150	Roberge	Michel	University of British Columbia	\$235,682	Identification and Characterization of Novel Antimitotic Compounds for the Treatment of Breast Cancer
BC980813	Rosen	Eliot M.	Long Island Jewish Medical Center	\$296,625	BRCA1 Modulates Estrogen Receptor Response in Breast Cancer
BC980029	Rosenberg	Carol L.	Boston University	\$342,282	Tumor-Specific Genetic Fingerprints in the Peripheral Blood of Women with Breast Cancer
BC980048	Rosenblum	Michael G.	University of Texas M.D. Anderson Cancer Center	\$263,461	Molecular Engineering to Retarget Human Cytokines
BC981077	Rusckowski	Mary	University of Massachusetts Medical Center	\$327,601	^{99m} Tc-Peptides for Detection of Breast Cancer
BC981157	Russo	Jose	Fox Chase Cancer Center	\$233,135	Homeobox Genes Mediates the Biological Functions of Human Chorionic Gonadotropin (hCG) in Human Breast Epithelial Cells
BC980895	Sabath	Daniel E.	University of Washington	\$318,514	Molecular Quantitation of Breast Cancer Cells in the Peripheral Blood: Correlation with Clinical Stage at Presentation and Disease Course
BC980803	Sacchi	Nicoletta	Johns Hopkins University	\$229,544	RAR Beta Methylation and Loss of RAR Beta Expression in Breast Cancer
BC980207	Sánchez-Ayéndez	Melba M.	University of Puerto Rico	\$428,298	Mammogram Compliance among Low-Income Middle-Aged Women in Puerto Rico
BC980794	Sanderson	Ralph D.	University of Arkansas	\$305,881	Novel Proteoglycan-Based Therapies for Breast Cancer
BC981028	Sauter	Bernhard V.	Mount Sinai Medical Center	\$353,223	Combination Antiangiogenic and Immunomodulatory Gene Therapy for Breast Cancer
BC981066	Schwartz	Pauline M.	VA Connecticut Healthcare System	\$220,301	An Epidermal Biosensor for Carcinoembryonic Antigen
BC980793	Segall	Jeffrey E.	Albert Einstein College of Medicine	\$352,275	Analysis of Metastasis in Transgenic Mice
BC980814	Shekhar	Malathy P. V.	Wayne State University	\$312,888	Role of RAD6, a DNA Repair Gene, in Tumor Progression and Drug Resistance
BC983015	Sheng	Shijie	Wayne State University	\$306,109	Rational Derivatives of Maspin as Candidate Tumor Suppressive Agents of Breast Cancer

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980060	Shi	Yuenian E.	Long Island Jewish Medical Center	\$291,900	Breast Cancer Prevention by Hormonally Induced Mammary Gland Differentiation: The Role of a Novel Mammary Growth Inhibitor and Differentiation Factor MRG
BC980583	Shields	Pete G.	Georgetown University	\$316,782	Molecular Epidemiology of Breast Cancer: Development and Validation of Acetylation Methods for Carcinogen-DNA Adduct Detection
BC980312	Sicinski	Piotr	Dana-Farber Cancer Institute	\$338,139	The Unique Role for Cyclin D1 in Mammary Gland Oncogenesis and Development
BC980249	Siddik	Zahid H.	University of Texas M.D. Anderson Cancer Center	\$313,995	Therapy of Breast Tumor Cells Overexpressing c-erbB-2/neu
BC981235	Siegal	Gene P.	University of Alabama at Birmingham	\$300,634	Modulation of Breast Cancer by α -L-Fucose
BC980416	Simcox	Amanda A.	Ohio State University	\$306,600	Development of an erbB Antagonist
BC980334	Simes	John	University of Sydney	\$289,477	Systematic Reviews of Randomized Controlled Trials of Chemotherapy and Endocrine Therapy in Advanced Breast Cancer
BC980177	Sinha	Raghu	Baylor College of Medicine	\$310,800	Selenium Inhibition of Mammary Cancer: A Mechanistic Approach
BC980688	Sirbasku	David A.	University of Texas Health Science Center at Houston	\$338,949	Breast Cancer Prevention and the Secretory Immune System
BC980798	Sladek	Norman E.	University of Minnesota	\$308,700	Molecular Determinants of Cellular Sensitivity to Flavopiridol, an Anti-Cell Signaling Anticancer Agent
BC980769	Smith-Bindman	Rebecca	University of California, San Francisco	\$725,515	Outcomes of Screening Mammography in Elderly Women
BC980579	Sporn	Michael B.	Dartmouth College	\$332,349	New Triterpenoids for Prevention of Breast Cancer
BC980834	Straus	Daniel S.	University of California, Riverside	\$304,706	Cyclin D1 Expression: Target for Breast Cancer Chemoprevention and Treatment
BC980501	Sugimoto	Yasuro	Ohio State University	\$306,600	Development of KGF Antagonist as a Breast Cancer Therapeutic Agent
BC980920	Sukumar	Saraswati V.	Johns Hopkins University	\$344,050	Prevention of Breast Cancer by Targeted Disruption of Breast Epithelial Cells
BC983021	Surmacz	Ewa	Thomas Jefferson University	\$377,870	IGF-IR, Cell Adhesion and Metastasis

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980832	Takayama	Shinichi	The Burnham Institute	\$409,458	BAG Family Proteins: Regulators of Cancer Cell Growth through Molecular Chaperones (Hsc70/Hsp70)
BC981052	T'Ang	Anne	Children's Hospital of Los Angeles	\$313,530	A Novel Spatially and Temporally Inducible Gene Expression Vector for the Treatment of Metastatic Breast Cancer
BC980677	Tang	Careen K.	Georgetown University Medical Center	\$327,940	Ribozyme Targeting the Novel Fusion Junction of EGFRvIII in Breast Cancer
BC980341	Taylor	C. Barr	Stanford University School of Medicine	\$327,015	The Development and Evaluation of an Innovative Internet-Based Breast Cancer Psychosocial Intervention
BC981213	Toborek	Michal J.	University of Kentucky	\$305,550	Dietary Lipids, Cell Adhesion, and Breast Cancer Metastasis
BC980390	Tondravi	Mehrdad M.	American Red Cross	\$222,946	Inhibition of Breast Cancer Metastasis of Bone
BC980358	Toole	Bryan P.	Tufts University	\$341,868	Role of EMMPRIN in Tumor Progression
BC980825	Troy	Frederic A.	University of California, Davis	\$303,474	Molecular Mechanisms of Polysialic Acid Expression in Human Breast Cancer: Cloning, Structural, and Biosynthetic Studies
BC980239	Tsai	Sophia Y.	Baylor College of Medicine	\$310,800	Role of Nuclear Receptor Coactivators, AIB-1 and SRC-1, in the Development of Breast Cancer
BC981244	Van Aelst	Linda	Cold Spring Harbor Laboratory	\$352,800	Isolation of Genes Involved in Rac Induced Invasion and Metastasis of Breast Carcinoma Cells
BC980546	Van Dyke	Terry A.	University of North Carolina at Chapel Hill	\$303,437	Tumor Suppressor Mechanism in Breast Cancer: Studies in Genetically Engineered Mice
BC980151	Vetvicka	Vaclav	University of Louisville	\$293,181	Procathepsin D Stimulation of Human Breast Cancer Cell Growth
BC980897	Volm	Matthew D.	New York University Medical Center	\$309,807	99-Technetium Sestamibi Scanning to Predict the Efficacy of Estramustine Phosphate in Overcoming Paclitaxel Resistance in Patients with Advanced Breast Cancer
BC981172	Wadhwa	Pathik D.	University of Kentucky	\$293,081	Physiological Stress Reactivity and Breast Cancer
BC980188	Wang	Xiao-Fan	Duke University Medical Center	\$323,400	Functional Analysis of TGFRP, a Putative Angiogenic Factor, in Breast Carcinogenesis

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980401	Warren	Warren S.	Princeton University	\$319,861	Measuring "Impossible" Intermolecular Cross-Peaks to Improve Selectivity and Sensitivity in Breast MRI
BC980459	Wei	Wei-Zen	Wayne State University	\$314,486	Development of Pro-Peptide Immunotherapy for Breast Cancer
BC980937	Weier	Heinz-Ulrich G.	Lawrence Berkeley National Laboratory	\$360,068	Expression Profiling of Tyrosine Kinase Genes
BC981112	Weiner	Louis M.	Fox Chase Cancer Center	\$353,850	Antibody-Pretargeted Cytokine Therapy of Cancer
BC981195	Weinstein	I. Bernard	Columbia University	\$238,700	Role of DIP1, a Novel Id-Like Protein in Breast Cancer
BC980403	Weissfeld	Lisa A.	University of Pittsburgh	\$278,207	Innovative Statistical Approaches to Modeling Multiple Outcome Data from the NSABP BCPT
BC981197	Wells	Robert	Colorado State University	\$398,001	Role of Melatonin in the Prevention of Breast Cancer in Patients with Cystic Breast Disease
BC980518	Wellstein	Anton	Georgetown University Medical Center	\$326,075	The Role of a FGF-Binding Protein in Breast Cancer
BC980469	Williams	Mark B.	University of Virginia	\$326,225	Dual Modality Imaging System for Breast Cancer Research
BC980514	Wilson	David M.	Lawrence Livermore National Laboratory	\$388,190	Repair Machinery for Radiation-Induced DNA Damage
BC981089	Wong	George Y. C.	Strang Cancer Prevention Center	\$360,531	Statistical Analysis of Multivariate Interval-Censored Data in Breast Cancer Follow-Up Studies
BC980149	Wright	Richard M.	University of Colorado Health Sciences Center	\$252,000	The Role of Molybdenum Hydroxylase Generated Free Radicals in Alcohol Induced Breast Cancer
BC980837	Wuttke	Deborah S.	University of Colorado	\$300,602	Breast Cancer Therapeutics, Environmental Estrogens, and the Estrogen Receptor (ER): Characterization of the Diverse Ligand Binding Properties of the ER
BC981170	Xu	Yang	University of California, San Diego	\$318,150	Regulation of the Activity and Stability of the Tumor Suppressor p53 <i>In Vivo</i>
BC980203	Yamamoto	Fumiichiro	The Burnham Institute	\$409,500	DNA Methylation Alterations in Breast Cancer
BC980113	Yan	Duen-Hwa	University of Texas M.D. Anderson Cancer Center	\$317,100	Targeting Human Breast Cancer Cells That Overexpress HER-2/neu mRNA by an Antisense Iron Responsive Element

Research Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980395	Yang	Dajun	Georgetown University Medical Center	\$327,883	Strategies of Discovering Small Molecule Drugs Targeting Growth Factor Heregulin
BC983004	Yang	Dajun	Georgetown University Medical Center	\$327,883	Testing Clinical Relevance and Therapeutic Potential of a Novel Secreted Ligand of TNF Family
BC981186	Yeldandi	Anjana V.	Northwestern University	\$308,562	Oxidases as Breast Cancer Oncogens
BC980692	Yin	Shi	Nova R&D, Inc.	\$374,576	A New Pixel Detector for Second Generation Digital Mammography
BC980321	Yu	Dihua	University of Texas M.D. Anderson Cancer Center	\$315,361	Novel Peptide/Protein Delivery System Targeting erbB2-Overexpressing Breast Cancer Cells
BC981088	Yu	Xiaoli	University of Southern California	\$330,543	Improving Detection of Axillary Lymph Nodes by Computer-Aided Kinetic Feature Identification in Positron Emission Tomography
BC980191	Yuan	Fan	Duke University	\$320,508	Effects of Tamoxifen and GW5638 on Microvessels in Tumor and Normal Tissues

**TRAINING/
RECRUITMENT
AWARDS**

FY98 Breast Cancer Research Program Pre-doctoral Traineeships

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980443	Al-Attar	Ali	Georgetown University Medical Center	\$66,000	Cell Surface Molecules Driving Breast Cancer/ Endothelial Interactions
BC980907	Altman	Amy L.	Vanderbilt University	\$66,000	Genetic Analysis of a Mammalian Chromosomal Origin of Replication
BC980675	Anderson	Emily M.	University of Colorado	\$66,000	Understanding Single-Stranded Telomere End Binding by an Essential Protein
BC980511	Anderson	Ryan M.	Duke University Medical Center	\$66,000	Functional Analysis of TGF- α/β Regulated Protein (TGFRP) in Breast Cancer Angiogenesis
BC980600	Andrechek	Eran R.	McMaster University	\$63,425	Tissue Specific Activation and Inactivation of the Neu Proto-Oncogene in Transgenic Mice Using Cre Recombinase
BC980669	Archev	William B.	Dartmouth College	\$65,936	Role of BRCA1 in Estrogen Receptor Expression in Breast Cancer
BC980437	Banerjee	Kumarika	University of Illinois at Chicago	\$66,000	A Breast Tumor Suppressor Gene on 8p22: Identification by the Genetic Suppressor Element Approach
BC980680	Barlow	Keith D.	Georgetown University Medical Center	\$65,708	Regulation of Cell Survival in Human Breast Cancer Cells by Sphingosine Kinase
BC980717	Barsalou	Annie	University of Montreal	\$66,000	Mechanisms of Action of Full Antiestrogens Used in Endocrine Treatment of Breast Cancer Cells
BC980319	Berns	Eric A.	University of Colorado Health Sciences Center	\$65,942	Optimization of Technique Factors for Full-Field Digital Mammography and Comparison of Optimized Techniques to Screen-Film Mammography
BC981121	Bollig	Aliccia B.	Michigan State University	\$66,000	The Role of ER α Splicing Variants in Regulation of AP-1 Directed Gene Transcription in Breast Cancer Cells
BC980586	Bouker	Kerrie B.	Georgetown University Medical Center	\$65,546	Interferon Regulatory Factor-1 as a Mediator of Responsiveness to Antiestrogens and Cytotoxic Drugs in Breast Cancer
BC980795	Calero	Guillermo A.	Cornell University	\$65,763	Structural Studies of c-Cbl Interaction with the EGF Receptor

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980912	Cardo-Vila	Marina	The Burnham Institute	\$65,910	Isolation of Signaling Molecules Involved in Angiogenic Pathways Mediated by Alpha V Integrins
BC981053	Chen	Emily I.	The Burnham Institute	\$65,952	Diagnosing Breast Cancer Using Protease Fingerprint
BC980621	Cuevas	Bruce D.	University of Texas M.D. Anderson Cancer Center	\$65,163	Development and Characterization of Transgenic Mice with Mammary Gland Specific Expression of the Tumor Suppressor MMAC1
BC980807	Dougherty	Michele K.	Georgetown University Medical Center	\$66,000	Insulin Like Growth Factor I Receptor Function in Estrogen Receptor Negative Breast Cancer
BC980673	Figueiredo	Melissa I.	Virginia Commonwealth University	\$44,622	The Effect of Emotional Disclosure Interventions on Psychological and Physical Well-Being of Breast Cancer Patients
BC980037	Flanagan	Louise A.	University of Notre Dame	\$44,000	Regulation of Growth and Metastases in an Estrogen Independent Breast Cancer Cell Line by Vitamin D Compounds
BC980997	Gui	Jin	Queen's University	\$44,655	Identification of Hepatocyte Growth Factor Autocrine Loops in Breast Carcinomas: Possible Target for Therapeutic Intervention
BC981012	Gupta	Mona S.	Texas A & M University	\$66,000	Aryl-Hydrocarbon Receptor Based Antiestrogenicity of Diindolylmethane Analogs
BC980606	Hernandez-Barrantes	Sonia	Wayne State University	\$65,670	Extracellular Matrix Regulation of Membrane Type 1-Matrix Metalloproteinase (MT1-MMP) and Matrix Metalloproteinase-2 (MMP-2) in Human Breast Fibroblasts
BC980716	Hoelz	Derek J.	University of Maryland, Baltimore County	\$66,000	The Regulatory Interactions of p21 and PCNA in Human Breast Cancer
BC981007	Hwu	Chia Yu	University of California, San Diego	\$44,000	Design, Synthesis, and Study of Cell Adhesion Antagonists: Hydroxamate-Based Peptide Inhibitors of $\alpha_v\beta_3$ Integrin
BC980618	Jarrett	Christy R.	Georgetown University Medical Center	\$66,000	A New APC-like Gene Involved in Regulation of β -catenin/LEF Signaling in Breast Cancer
BC980620	Kavanagh	Kathryn T.	Boston University	\$66,000	Effects of the NF- κ B/Rel Inhibitor I κ B- α on NF- κ B/Rel on the Pathogenesis of Breast Cancer

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC981116	Kimbrel	Erin A.	Duke University Medical Center	\$66,000	Role of the Nuclear Receptor Transcriptional Repressor, N-CoR in the Pharmacological Activity of Estrogen Receptor Agonists and Antagonists
BC980362	Kiss	Miklos Z.	North Carolina State University	\$66,000	Integration of Digital Detectors into a Diffraction Enhanced Imaging System
BC980969	LaSorsa	Kathryn C.	New York University	\$66,000	An Investigation of the Facilitative and Inhibitory Variables Impacting Breast Health Practices in Low-Socioeconomic Status Black Women of African American and Caribbean Descent
BC980981	Lavu	Harish	Health Research, Inc.	\$66,000	Differential Processing of Cyclin E Variants in Normal vs. Tumor Cells and Their Role in Breast Cancer Oncogenesis
BC980448	Lee	Anthony	University of Pennsylvania	\$66,000	Study of the Regulation of erbB Signaling by Receptor-mediated Endocytosis
BC980124	Liby	Karen T.	University of Cincinnati	\$66,000	16K Prolactin as an Angiogenic Inhibitor in Breast Cancer
BC981141	Liu	Yanbin	University of Kansas	\$43,558	Probing the Paclitaxel-Microtubule Binding Site and Interactions: Design, Synthesis, and Evaluation of New Photoaffinity Taxoids
BC980291	Marieb	Erica A.	Tufts University	\$66,000	The Role of EMMPRIN in Tumor Angiogenesis and Metastasis
BC980943	Markovic	Dubravka	University of Illinois	\$43,254	Treatment of Breast Cancer with Immunogenic Cells Transfected with DNA from Breast Cancer Cells
BC980655	Martinez	Elisabeth D.	Georgetown University Medical Center	\$65,904	Cell Cycle Regulation of Estrogen and Androgen Receptor Activity
BC980899	McCracken	Meredith A.	West Virginia University Research Corporation	\$65,116	Induction of Radiosensitization by Antisense Oligonucleotide Gene Therapy
BC980598	McKenzie	Gregory J.	Baylor College of Medicine	\$65,478	Role of the SOS Response in Stationary-Phase Hypermutation: A Model for Mutation in Oncogenesis and Chemotherapeutic Drug-Resistance
BC981114	Melkounian	Zaroui K.	West Virginia University	\$65,116	Regulation of C-myc Gene Expression by Potassium Channel Blocker Quinidine in MCF-7 Human Breast Cancer Cell Line

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980119	Mesfin	Fassil B.	Albany Medical College	\$88,980	AFP-Derived Peptides Which Stop Breast Cancer Growth
BC980313	Murphy	Kristen L.	Baylor College of Medicine	\$67,842	Functional Significance of Mutant p53 in Breast Cancer
BC981232	Niguidula	Nancy J.	Columbia University	\$66,000	4-Aminobiphenyl (4-ABP)-DNA Damage in Breast Tissue and Relationship to p53 Mutations and Polymorphisms of Metabolizing Genes
BC981205	O'Neill	Suzanne M.	University of Pittsburgh	\$35,000	Acceptance of Referral for Cancer Risk Counseling in a Population of Women Undergoing Breast Biopsy: Variables Predicting Follow-up at a Cancer Genetics Program
BC980665	Pirone	Dana M.	Georgetown University Medical Center	\$65,817	Altered Cdc42 Signaling in Metastatic Breast Cancer Cells
BC981143	Popovic	Milica	Northwestern University	\$65,998	Imaging of Early-Stage Breast Cancers Using Pulsed Confocal Microwave Technology
BC980750	Pritchard	Michele T.	Health Research, Inc.	\$66,000	The Preclinical Evaluation of Fever-Range, Whole Body Hyperthermia as an Adjuvant to Chemotherapy and Cytokine Immunotherapy for the Treatment of Breast Cancer
BC980079	Rajendran	Ramji R.	University of Illinois	\$66,000	An Estrogen Receptor-Selective Coactivator: A Potential Regulator of Tamoxifen Effectiveness in Breast Cancer Treatment and Prevention
BC981140	Schwartz	Marc F.	Yale University	\$66,000	Mechanisms and Components of the DNA Damage Checkpoint
BC980652	Shanks	Robert M.	Tufts University	\$43,740	Identification of Checkpoint Genes Involved in the kar3 Cell Cycle Arrest
BC980609	Sheen	Joon-Ho	Georgetown University Medical Center	\$63,150	A Gene Amplification Phenotype in c-Myc-Induced Mammary Tumor Cells
BC980097	Stack	Kathryn L.	University of Colorado Health Sciences Center	\$66,000	Induction of Mammary Cancer by Activated Akt
BC981148	Sugiro	Francisca	New York State University	\$66,000	Monochromatic Mammographic Imaging Using X-ray Polycapillary Optics
BC980182	Thackray	Varykina G.	University of Colorado Health Sciences Center	\$66,000	Investigating the Regulation of Estrogen Receptor-Mediated Transcription
BC980710	Thornborrow	Edward C.	Mount Sinai Medical Center	\$65,936	Differential Activation of p53 Target Genes in Breast Cancer

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980274	Thress	Kenneth S.	Duke University Medical Center	\$66,000	Apoptotic Regulation
BC980875	Wan	Yihong	University of Colorado Health Sciences Center	\$66,000	Identification of Genes Differentially Regulated by Progesterins and Glucocorticoids in Human Breast Cancer Cells
BC980100	White	Christine M.	Health Research, Inc.	\$65,316	Developing Novel Anticancer DNA-Binding Drugs to Disrupt ETS-Mediated Transcription Associated with Breast Cancer: Use of the C-Fos Serum Response Element as a Model System
BC980570	White	Donald E.	McMaster University	\$62,145	The Role of the Integrin-Linked Kinase (ILK) in Mammary Gland Tumorigenesis and Metastasis
BC980065	Williams	Rebecca L.	University of Wisconsin-Madison	\$65,815	Mapping Genetic Modifiers of Mammary Tumor Susceptibility in Min/+ Mice
BC980614	Windholtz	Jennifer L.	Ohio State University	\$65,989	Antiestrogenic Isoflavonoid Analogs: Targeted Drug Design for Inhibition of Human Breast Cancer Cell Proliferation
BC980693	Yang	Yurong	Wake Forest University School of Medicine	\$66,000	Anti-Angiogenesis by a Novel VEGF-Intracrine Strategy for Breast Cancer Therapy

FY98 Breast Cancer Research Program Post-doctoral Traineeships

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980141	Ariazi	Eric A.	University of Wisconsin	\$124,354	Involvement of Human Estrogen-Related Receptor Alpha 1 (hERR α 1) in Breast Cancer and Hormonally Insensitive Disease
BC980625	Baxter	Ruth	Massachusetts General Hospital	\$125,977	Role of Whn in Mammary Gland Development and Tumorigenesis
BC980864	Brennan	Keith	Strang Cancer Prevention Center	\$125,761	Identification of Wnt Receptors in Mammary Cells
BC980941	Brukner Dabovic	Branka	New York University School of Medicine	\$126,000	TGF- β and Breast Cancer Induction
BC980753	Campbell	Mel	Vanderbilt University Medical Center	\$126,000	Development of an Adenoviral-Based Gene Therapy for Treatment of Breast Cancer
BC980809	Ceresa	Brian P.	Scripps Research Institute	\$124,802	EGF-Receptor Signaling in Endocytosis Deficient Cells
BC980482	Chang	Ching-yi	Duke University Medical Center	\$126,000	Definition of the Cellular Mechanisms Which Distinguish between Estrogen Receptor Agonists and Antagonists
BC980539	Chung	Arthur C.	Baylor College of Medicine	\$126,000	Development of a Novel Ligand Binding Assay for Estrogen Receptor
BC980139	de Belle	Ian	The Burnham Institute	\$125,994	Cloning and Characterization of Active Egr-1 Target Genes by <i>In Vivo</i> Crosslinking
BC981096	de Stanchina	Elisa	Cold Spring Harbor Laboratory	\$126,000	p19 ^{ARF} -p53 Tumor Suppressor Pathway during Oncogene-Induced Apoptosis and Senescence
BC980812	Deckert	Peter M.	Sloan-Kettering Cancer Center	\$125,522	Prodrug Therapy for Breast Cancer Targeted by Single-Chain Antibodies F19 and 3S193
BC980816	Desai	Mehul K.	New York University School of Medicine	\$126,000	Oxidized DNA Bases in Breast Cancer
BC980458	Douillard	Patrice	Brigham and Women's Hospital	\$126,000	Regulation of FAK Signaling in Mammary Epithelial Cells by Cbl Proto-oncogene Product
BC981229	Du	Xianglin	University of Texas Medical Branch at Galveston	\$83,802	Impact of Axillary Dissection on Clinical Outcomes of Breast Cancer Surgery
BC981083	Erblich	Joel	Mount Sinai School of Medicine	\$125,737	Psychological Distress, Cognitive Bias, and Breast Cancer Surveillance Behavior in Women Tested for BRCA1/2 Mutation

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980906	Fraser	Andrew G.	University of Cambridge	\$126,000	Characterization of Two <i>C. elegans</i> Homologues of Oncogenic Inhibitor of Apoptosis Proteins (IAPs) and Identification of Interacting Genes
BC980729	Gareau	Paula J.	John P. Robarts Research Institute	\$125,909	Prediction of Malignancy in Breast Tumors Using Diffusion-Weighted Magnetic Resonance Imaging
BC980932	Ghosh	Malavika G.	Stanford University	\$125,997	Identification of Estrogen Responsive Genes and Their Role in Breast Cancer
BC981224	Graham	Justine Dinny	University of Colorado Health Sciences Center	\$92,392	Role of Nuclear Receptor Coregulators in Hormone Resistant Breast Cancer
BC980995	Guo	Xiaojia	Cornell University Medical School	\$126,000	Retinol Esterification in Human Breast Cancer Cells
BC980417	Heine	John J.	University of South Florida	\$125,933	Multiresolution Statistical Analysis of Direct X-ray Detection Digital Mammograms
BC980392	Hovey	Russell C.	National Institutes of Health	\$125,830	Stroma-Mediated Hormone Action in Mammary Gland Growth and Preneoplasia
BC980166	Hui	Rina	Garvan Institute of Medical Research	\$125,394	Cyclin D1 and Cyclin E as Markers of Therapeutic Responsiveness in Breast Cancer
BC980299	Humphreys	Robin C.	National Institutes of Health	\$121,625	STAT5A Regulates the Survival of Mammary Epithelial Cells and the Development of Mammary Cancer
BC980957	Jackson-Fisher	Amy J.	Yale University School of Medicine	\$123,184	The Role of ErbB-4 in Mammary Gland Development and Tumorigenesis
BC981150	Kakonen	Sanna-Maria A.	University of Texas Health Science Center at San Antonio	\$126,000	Role of PTH Receptor Factor in Breast Cancer Metastasis to Bone
BC980697	Kalikin	Linda M.	University of Michigan	\$125,792	Analysis of a Novel 17q25 Cell Cycle Gene Homolog: Is it a Breast Tumor Suppressor Gene?
BC981107	Katritch	Vsevolod Y.	Scripps Research Institute	\$125,624	Antigene Strategy in Breast Cancer Therapy: Rationales for Direct Targeting of erbB2/Her2 DNA with Polyamides
BC980757	Kim	Sang Hoon	Albert Einstein College of Medicine	\$125,950	Role of Spindle Checkpoint in Preventing Breast Cancers
BC980077	Krucher	Nancy A.	New York Medical College	\$123,000	CDK Inhibitors p21 and p57 in Breast Cancer

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980315	Lewis	Amy J.	Medical University of South Carolina	\$125,256	Role of Diet in the Initiation and Prevention of Breast Cancer
BC980760	Li	Yi	National Institutes of Health	\$118,920	Mammary-Specific Gene Transfer for Modeling Breast Cancer
BC980297	Moorehead	Roger A.	Ontario Cancer Institute	\$57,000	Role of IGF-II in Mammary Tumorigenesis and Its Modulation by TIMP-1
BC980851	Mullane	Karen P.	Brigham and Women's Hospital	\$126,000	A Novel Pathway to Down-Regulate ErbB Signaling in Mammary Epithelial Cells
BC981029	Pighetti	Gina M.	Pennsylvania State University	\$125,962	Leptin Regulation of Mammary Cell Growth
BC980423	Preisinger	Elizabeth A.	Massachusetts Institute of Technology	\$126,000	A Novel Monoallelically Expressed Candidate Tumor Suppressor Gene for Breast Carcinogenesis on Chromosome 11p15.5
BC980961	Pumphrey	Carla	University of Arkansas	\$126,000	Heparan Sulfate Proteoglycans as Therapeutic Agents for Breast Cancer
BC980183	Quong	Judy N.	University of California, San Francisco	\$125,994	AP-1 Activity in Tamoxifen-Resistant Human Breast Tumors
BC980528	Shamon	Lisa A.	Lawrence Berkeley National Laboratory	\$126,000	Functional Sites of the erbB-2 Receptor and Its Activator Heregulin
BC980887	Shields	Janiel M.	University of North Carolina at Chapel Hill	\$124,953	Novel Oncogenes in Breast Cancer Development
BC980967	Simpson	Kaetrin V.	Cold Spring Harbor Laboratory	\$126,000	Investigation of the Causes of Breast Cancer at the Cellular Level: Isolation of <i>In Vivo</i> Binding Sites of the Human Origin Recognition Complex
BC980172	Takebe	Nakoko	University of Maryland	\$125,988	Retroviral Transfer of Human Mutated Thymidylate Synthase Gene into Hematopoietic Stem Cells for Protection from High-Dose Fluoropyrimidine Toxicity
BC980604	Tan	Qiang	Sloan-Kettering Cancer Center	\$126,000	Total Synthesis of Eleutherobin and Analogs and Study of Anti-Cancer Mechanism
BC980848	Tsai	Miaw-Sheue	Lawrence Berkeley National Laboratory	\$126,000	The Involvement of Human Cyr61 in Heregulin Induction of Breast Tumor Progression
BC980227	Wang	Hongtao	John Wayne Institute for Cancer	\$126,000	Characterization of the Contribution of Ceramide to Chemotherapy Sensitization in Breast Cancer Cells

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC983022	Wiseman	Bryony S.	University of California, San Francisco	\$110,319	Matrix-Dependent Mechanisms Involved in Tumor Promotion in Initiated Human Mammary Epithelium by Reactive Stroma
BC980951	Wulf	Gerburg M.	Beth Israel Deaconess Medical Center	\$125,964	Roles of Mitotic Checkpoint Regulators Pin1 and Pin2 in Breast Cancer
BC980862	Zhang	Hong	The Burnham Institute	\$126,000	BARC: A Novel Apoptosis Regulator

**FY98 Breast Cancer Research Program
Career Development Awards**

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980671	Alexandropoulos	Konstantina	Columbia University	\$208,000	Murine Models of Breast Cancer: Assessment of the Role of c-Src in Mammary Tumorigenesis
BC980994	Bedi	Atul	Johns Hopkins University	\$208,000	Inhibition of Breast Cancer by Repression of Angiogenic Hypoxia-Inducible Transcription Factors
BC980154	Buchholz	Thomas A.	University of Texas M.D. Anderson Cancer Center	\$207,990	The Importance of ATM Mutations and Polymorphisms in Breast Cancer and Radiation Sensitivity
BC980148	Dent	Paul	Virginia Commonwealth University	\$208,000	Radiosensitization of Human Mammary Carcinoma Cells by Specific Inhibition of Signal Transduction Cascades
BC981122	Direnzo	James	Dana-Farber Cancer Institute	\$206,303	Inhibition of Estrogen Receptor Action by the Orphan Receptors, SHP and DAX-1
BC980689	Dropulic	Lesia K.	Johns Hopkins University	\$207,998	Development of Targeted Sindbis Virus Vectors for Potential Application to Breast Cancer Therapy
BC980894	DuHamel	Katherine N.	Mount Sinai School of Medicine	\$208,932	Increasing Pain Related Communication Skills to Improve Pain Management in Metastatic Breast Cancer Patients
BC980664	Fan	Saijun	Long Island Jewish Medical Center	\$104,000	BRCA1: RB Interaction in Breast Cancer Suppression
BC980399	Fuchs	Ephraim J.	Johns Hopkins University	\$208,000	Adoptive Immunotherapy of Advanced Breast Cancer Using T Cells from Allogeneic Donors
BC980911	Hazan	Rachel	Mount Sinai Medical Center	\$204,444	The Role of N-Cadherin in Breast Cancer Metastasis
BC980050	Jiang	Huabei	Clemson University	\$201,468	Finite Element Based Photon Migration Imaging
BC980827	Karp	Stephen E.	Virginia Commonwealth University	\$204,832	Apoptosis Based Gene Therapy of Breast Cancer
BC981198	Leoni	Lorenzo M.	University of California, San Diego	\$208,000	Mechanism of Action of Substituted Indanones in Multidrug Resistant Breast Cancer
BC980522	Montano	Monica M.	Case Western Reserve University	\$205,857	Estrogen Regulation of Prothymosin α
BC980332	Monteiro	Alvaro N.	Strang Cancer Prevention Center	\$195,432	Regulatory Mechanisms in Transcriptional Activation by BRCA1

Training/Recruitment Awards

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC981199	Qian	Wei	University of South Florida	\$205,859	The CAD Method for Microcalcification Detection: Independent of Sensor and Resolution
BC980548	Schulte	Anke M.	Georgetown University Medical Center	\$208,000	Gene Regulation and Expression Pattern of the Growth Factor Pleiotrophin in Breast Cancer
BC983005	Shile	Peter E.	Washington University	\$207,999	Impact of Feature-Based Training and Auditing on Diagnostic Accuracy and Agreement in Mammographic Interpretations
BC980464	Silva	Corinne M.	University of Virginia	\$206,965	The Role of the Signal Transducers and Activators of Transcription (STATs) in Breast Cancer
BC980429	Thomas	Sheila M.	Beth Israel Deaconess Medical Center	\$208,000	Role of Cortactin in Cell Growth and Differentiation
BC980089	Tomlinson	Stephen	New York University Medical Center	\$198,371	Complement Inhibitory Membrane Proteins and Their Role in Tumorigenesis
BC980057	Van Den Berg	Carla L.	University of Colorado Health Sciences Center	\$206,340	Mechanisms of Growth Factor Attenuation of Cell Death in Chemotherapy Treated Breast Cancer Cells
BC981246	Wood	Teresa L.	Milton S. Hershey Medical Center	\$207,127	The Insulin-Like Growth Factors and Receptor in Hormone-Mediated Breast Growth and Tumorigenesis
BC980725	Xiong	Yue	University of North Carolina at Chapel Hill	\$207,703	G1 Cell Cycle Control by Regulated Proteolysis in Normal and Tumorigenic Breast Cells
BC981036	Yang	XiaoHe	ENH Research Institute	\$207,920	Caspase Deficiency: Involvement in Breast Carcinogenesis and Resistance

**FY98 Breast Cancer Research Program
Institutional Training Grants**

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980663	Andrykowski	Michael A.	University of Kentucky	\$379,697	Research Training in Biopsychosocial Breast Cancer Research
BC981192	Bovbjerg	Dana H.	Mount Sinai Medical Center	\$782,413	Postdoctoral Training Program in Biobehavioral Breast Cancer Research
BC981180	Finn	Olivera J.	University of Pittsburgh	\$782,135	University of Pittsburgh Graduate Training Program in Breast Cancer Biology and Therapy
BC980940	Hung	Mien-Chie	University of Texas M.D. Anderson Cancer Center	\$791,359	Training Program in Breast Cancer Research at the University of Texas M.D. Anderson Cancer Center
BC980190	Lee	Wen-Hwa	University of Texas Health Science Center	\$800,000	Training Program in the Molecular Basis of Breast Cancer Research
BC981078	Levine	Robert S.	Meharry Medical College	\$798,132	Institutional Training in Breast Cancer Research
BC980495	Lippman	Marc E.	Georgetown University Medical Center	\$756,238	Combined M.D./Ph.D. and Ph.D. Training Program in Breast Cancer Prevention
BC980058	Medina	Daniel	Baylor College of Medicine	\$688,002	Research Training Program in Breast Cancer
BC981233	Stern	David F.	Yale University	\$800,000	Predoctoral Training Program in Breast Cancer Research

ACADEMIC AWARDS

**FY98 Breast Cancer Research Program
Academic Awards**

Log Number	Last Name	First Name	Institution	Award Amount	Proposal Title
BC980747	Abagyan	Ruben A.	Scripps Research Institute	\$492,393	Rational Structure-Based Design of a New Class of Anti-Breast-Cancer Drugs Targeting the erbB Family of Receptor Tyrosine Kinases
BC980830	Brown	Myles A.	Dana-Farber Cancer Institute	\$353,430	Estrogen Signaling in Breast Cancer
BC981115	Chapman	Leroy D.	Illinois Institute of Technology	\$364,990	Application of Diffraction Enhanced Imaging to Medical Imaging
BC980629	Clarke	Robert R.	Georgetown University Medical Center	\$248,890	Molecular Mechanisms of Estrogen and Antiestrogen Resistance
BC980354	Donehower	Lawrence A.	Baylor College of Medicine	\$263,223	Mouse Mammary Cancer Models—Mechanisms and Markers
BC980934	Fridman	Rafael A.	Wayne State University	\$440,343	Cell Surface Regulation of Matrix Metalloproteinases in Breast Cancer Cells
BC981067	Guisse	Theresa A.	University of Texas Health Science Center at San Antonio	\$280,764	The Role of Estrogen Receptor- α in Breast Cancer Metastases to Bone
BC980442	Hilakivi-Clarke	Leena A.	Georgetown University Medical Center	\$393,195	Dietary Prevention of Breast Cancer
BC980187	Nordeen	Steven K.	University of Colorado Health Sciences Center	\$69,712	Classical and Nonclassical Estrogen Receptor Action on Chromatin Templates
BC980945	Olopade	Olufunmilayo I.	University of Chicago	\$438,066	Molecular Markers in Hereditary Breast Cancer
BC980007	Watson	Peter H.	University of Manitoba	\$349,909	Resources for Precision Analysis of Human Breast Cancer
BC981128	Windle	Jolene J.	Cancer Therapy and Research Center	\$432,503	Mechanisms of Ras Control of Mammary Tumor Properties in Transgenic Mice

**PROJECTS THAT
RECEIVED
ADDITIONAL
FUNDING**

Breast Cancer Projects That Received Additional Funding

(The following nine projects received supplemental support from the FY98 Breast Cancer Research appropriation)

FY97 Breast Cancer Research Program Awards

Log Number	Last Name	First Name	Funding Mechanism	Institution	Award Amount	Proposal Title
BC971380	Anderson	Robin L.	Idea	Peter MacCallum Cancer Institute	FY97 – \$187,712 FY98 – \$16,668	Mechanisms of Bone Metastasis from Breast Cancer Using a Clinically Relevant Model
BC971392	Macovski	Albert	Idea	Stanford University	FY97 – \$49,000 FY98 – \$270,345	A Low-Cost, High Quality MRI Breast Scanner Using Prepolarization
BC971163	Swerdlow	Harold	Idea	University of Utah	FY97 – \$277,152 FY98 – \$24,100	High-Throughput Array Instrument for DNA-Based Breast Cancer Diagnostics
BC971758	Vook	Noelle C.	Idea	Walter Reed Army Institute of Research	FY98 – \$37,000	<i>In Vitro</i> and <i>In Vivo</i> Efficacy of Microencapsulated Taxol against Human Breast Cancer

FY96 Breast Cancer Research Program Awards

Log Number	Last Name	First Name	Funding Mechanism	Institution	Award Amount	Proposal Title
BC960729	Cunningham	Albert R.	Pre-doctoral	University of Pittsburgh	FY96 – \$40,000 FY98 – \$1,477	SAR Studies to Assess the Risk of Breast Cancer Due to Environmental Estrogens
BC961919	Lelievre	Sophie A.	Post-doctoral	University of California	FY96 – \$85,532 FY98 – \$1,500	The Use of a Human Breast Tumor Progression Series and a 3-D Culture Model to Determine if Nuclear Structure Could Provide a Molecular and Therapeutic Marker

FY93/94 Breast Cancer Research Program Awards

Log Number	Last Name	First Name	Funding Mechanism	Institution	Award Amount	Proposal Title
BC930494	Baskar	Sivasubrama	CDA	University of Maryland, Baltimore County	FY93/94 – \$200,000 FY98 – \$2,488	Novel Gene Therapy for Enhancing Anti-Tumor Immunity
BC932082	Peto	Richard	OIA	University of Oxford	FY93/94 – \$1,604,662 FY98 – \$325,000	A Reliable Assessment of the Efficacy and Safety of Prolonging Adjuvant Tamoxifen Treatment of Women with Breast Cancer through a Series of Very Large, Simple Randomized Trials, and a Prospective Overview (Meta-Analysis) of Their Results
BC931487	Wilkins	Edwin	OIA	University of Michigan	FY93/94 – \$824,205 FY98 – \$1,600	Michigan Breast Reconstruction Outcome Study (MBROS)

GLOSSARY OF TERMS

Glossary of Terms

- Academic -** *Academic Awards:* The intent of this award is to fund established and productive scientists of proven high ability to afford them the following opportunities: (1) to critically appraise the state of the science in an aspect of breast cancer research and (2) to forge new avenues of investigation in breast cancer research. This award mechanism should free the scientist from teaching, clinical responsibilities, and other duties, thereby encouraging creative thinking and imaginative application of ideas to the field of breast cancer research.
- CDA -** *Career Development Awards:* These awards have a dual intent: to encourage individuals who have post-doctoral training, but are not established investigators, to pursue a breast cancer-related research career and to encourage those established individuals who are currently working in areas other than breast cancer to shift their focus to breast cancer research. These awards will provide salary support and health benefits, freeing recipients from some of their teaching and clinical responsibilities so that they can devote more time to research. Such awards will provide these new breast cancer researchers the opportunity to accumulate the data and experience to compete for traditional awards later in their careers.
- CTR -** *Clinical Translational Research Awards:* This award supports projects that are likely to have a major impact on the prevention, detection, diagnosis, and 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. Inclusion of a clear experimental and statistical plan to perform a prospective clinical trial or study is required with this type of award. The goal of the CTR category is to sponsor novel research that will result in substantial improvements over today's approach.
- HBCU/MI -** *Historically Black Colleges and Universities/Minority Institutions:* Proposals from Department of Education recognized HBCU/MI were invited in all award categories. These proposals are reviewed concurrently with all others in the same research category during scientific peer review, but evaluated separately during programmatic review. The final investment strategy for HBCU/MI funds is determined based upon scientific excellence and program relevance.
- Idea -** *Idea Awards:* The intent of this award mechanism is to support innovative scientific approaches to breast cancer research that may be untested but that may reveal breakthrough or new avenues for fulfilling the programmatic goal of eradicating breast cancer. Despite the inherent risk-taking nature of these projects, they must nonetheless demonstrate solid scientific judgement.
- ITG -** *Institutional Training Grants:* This award is intended to encourage the initiation of new training programs in breast cancer. These should be pre- and/or post-doctoral students focused on breast cancer research together in a common research and training environment. These may emphasize the training of students from different disciplines. ITG proposals should address the following key aspects of the proposed training program: (1) the program vision and goals, (2) the program faculty, and (3) the training program and trainees.
- OIA -** *Other Investigator Initiated Awards:* The goal of this award mechanism is to sponsor longer-term, novel research that will result in substantial improvements over today's approach to the prevention, diagnosis, and treatment of breast cancer and will enhance the quality of life for persons afflicted with the disease.
- Post-doctoral -** *Post-doctoral Traineeships:* The goal of this subcategory is to enable recent doctoral degree graduates with limited post-doctoral experience (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. A broad spectrum of research interests in breast cancer is intended, including basic, clinical, psychosocial, and public health sciences.
- Pre-doctoral -** *Pre-doctoral Traineeships:* The goal of this subcategory is to make direct individual traineeship awards to promising graduate students. The intent of these traineeships is to support pre-doctoral dissertation research rather than rotations or basic coursework. Funds also will be used for tuition, expenses, and stipends.

PEER REVIEWERS

FY98 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.	University of Rochester Cancer Center, University of Rochester School of Medicine
Abraham, Lynne	M.S.	Consumer
Adams, Dee Jones	Ph.D.	Baton Rouge Christian Counseling Center
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.	Consumer
Alperin, Noam J.	Ph.D.	Department of Radiology, University of Illinois at Chicago
Amzel, Mario	Ph.D.	Department of Biophysics and Biophysical Chemistry, Johns Hopkins School of Medicine
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, III, Samuel G.	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.		Consumer
Band, Hamid	M.D., Ph.D.	Division of Rheumatology, Immunology, and 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.		Consumer
Barsevick, Andrea M.	D.N.Sc., R.N.	Fox Chase Cancer Center
Barton, Michelle C.	Ph.D.	Department of Molecular Genetics, University of Cincinnati
Basu, Alakananda	Ph.D.	Department of Molecular Biology and 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
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 Sciences Center
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

Peer Reviewer	Degree	Institution/Affiliation
Blackwood, Anne	M.D.	Departments of Medicine and Epidemiology, University of Pennsylvania School of Medicine
Blair, Geri		University Hospitals of Cleveland
Blanchard, Christina	Ph.D.	Division of Hematology/Oncology, Albany Medical College
Blood, Christine H.	Ph.D.	Palatin Technologies
Boice, Jr., John D.	Sc.D.	International Epidemiology Institute
Bolton, Judy L.	Ph.D.	Department of Medicinal Chemistry and Pharmacology, University of Illinois at Chicago
Boothman, David A.	Ph.D.	Departments of Radiation Oncology and Pharmacology, Case Western Reserve University
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 San Diego
Bremer, Eric G.	Ph.D.	Brain Tumor Research Program, Children's 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.	Cancer Survivorship Alliance of South Florida, Inc.
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
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.		Consumer
Cannon, Mildred S.	Ph.D., M.P.H.	Executive Secretary
Carey, David J.	Ph.D.	Weis Center for Research
Carpenter, Christine B.	Ed.S.	Consumer
Carson, III, William E.	M.D.	Ohio State University, James Cancer Hospital
Case, Karen A.		Consumer
Cerhan, James R.	M.D., Ph.D.	Mayo Clinic
Chai, Karl X.	Ph.D.	Department of Molecular Biology and 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
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

Peer Reviewers

Peer Reviewer	Degree	Institution/Affiliation
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
Cohen, Stanley	M.D.	Department of Pathology and Laboratory Medicine, University of Medicine and Dentistry of New Jersey
Coker, Jessie	R.N.	Consumer
Conzen, Suzanne	M.D.	Department of Medicine, University of Chicago
Cora-Morales, Elsa	Ph.D.	Department of Biochemistry and 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, San Francisco
Dahia, Patricia	M.D., Ph.D.	Department of Cancer Biology, Dana-Farber Cancer Institute
Dahiya, Rajvir	Ph.D.	Department of Urology, VAMC and University of California, 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, III, Alvin E.	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.	Department of Physiology and Medicine, University of Kentucky (Retired)
DiAugustine, Richard P.	Ph.D.	Laboratory of Molecular Carcinogenesis, National Institute of Environmental Health Sciences/NIH
DiBiase, Steven J.	M.D., B.S.	Department of Radiation Oncology, University of Maryland School of Medicine
Diefenbach, Michael A.	Ph.D.	Division of Population Science, Fox Chase Cancer Center
Djeu, Julie Y.	Ph.D.	Department of Biochemistry and Molecular Biology, University of South Florida College of Medicine
Donehower, Lawrence A.	Ph.D.	Division of Molecular Virology, Baylor College of Medicine
Doonkeen, Eula		Dana Printing Company and Enterprises
Doxsey, Stephen	Ph.D.	Program in Molecular Medicine, University of Massachusetts Medical Center

Peer Reviewers

Peer Reviewer	Degree	Institution/Affiliation
Draper, Arlyne		Women's Cancer Task Force Y-ME
Drebin, Jeffrey	M.D., Ph.D.	Surgery Department, Washington University School of Medicine
Duckett, Colin S.	Ph.D.	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 and 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 Sciences Center
Edwards, Margaret R.	D.S.N.	School of Nursing, Northeast Louisiana University
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
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PROGRAMMATIC
REVIEWERS**

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