



# RESEARCH UTILIZING THE CALIFORNIA CANCER REGISTRY

JULY 2007



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Secretary

California Health and Human Services Agency

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Director

California Department of Public Health

# THE CALIFORNIA CANCER REGISTRY AND CANCER RESEARCH

Dear Colleague:

Cancer researchers continue to make critical advances in the detection and treatment of cancer, and more is now known than ever before about risk factors and prevention. Since 1988, cancer incidence rates in California have declined by 12 percent. Over the same time period, cancer mortality rates declined by 19 percent. Declines were seen in all four major race/ethnic groups. Due to California's strict anti-smoking laws and research involving tobacco-related disease, the incidence and mortality rates for tobacco-related cancers have decreased at an even greater rate. In the early 1900s, few cancer patients had any hope of long-term survival, and as recently as the 1960s, only one of three cancer patients could expect to survive five years. Today, through increased early detection and improved treatment, two of three cancer patients are living five years after diagnosis, illustrating the value and rewards of research and public health intervention.

Despite these improvements, two out of every five Californians will develop cancer at some point in their lives, and one in five will die of the disease. As the baby-boomers age and California's population grows, cancer will remain a public health challenge due to the increase in the absolute number of cancer cases diagnosed each year. In 1988, 111,000 Californians were diagnosed with cancer. In 2006, we expect over 136,500 new cases. Causes and prevention for most cancers remain elusive. Emerging research tools offer great promise, but the complex nature of the interactions between genetic, lifestyle, environmental, and other factors that lead to cancer require a multidisciplinary approach.

The California Cancer Registry (CCR) serves as the foundation for multidisciplinary cancer research in California. Since 1988, approximately 450 cancer research projects have been conducted using CCR data, bringing in over \$388 million in research funds to California. This report summarizes CCR-based research from 1988 to the present. Without CCR, very little of this research would have been possible and life-saving knowledge would not have been gained. I honor and thank the dedicated professionals who collect, quality control, and utilize this invaluable resource in the battle against cancer. Because of your dedicated efforts, we continue to make critical advances in understanding, detecting, preventing, and treating cancer. At the same time, I challenge you to continue to support CCR and to maximize the use of this essential resource in winning the war against cancer.

Sincerely,



Kurt P. Snipes, Ph.D., Chief  
Cancer Surveillance Research Branch  
California Department of Public Health

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# ACKNOWLEDGMENTS

This report was prepared by David Harris, MPH, in collaboration with researchers in California and staff at the California Department of Public Health, the Public Health Institute, and the California Association of Regional Cancer Registries. Further information regarding the California Cancer Registry (CCR) can be found by visiting our web site at: [www.ccrca.org](http://www.ccrca.org), by contacting CCR at 1700 Tribute Road, Suite 100, Sacramento, CA 95815, or by calling (916) 779-0300.

CCR is composed of regional registries which are responsible for collecting cancer incidence reports from California health care providers. This report would not have been possible without the considerable effort and collaboration from the staff of these registries. The directors and epidemiologists of the regional registries are: Hoda Anton-Culver, Ph.D.; Leslie Bernstein, Ph.D.; Judy Boone; Jane Breuss, C.T.R.; Deborah Bringman, M.P.H.; Monica Brown, Ph.D.; Vincent Caggiano, M.D.; Becky Cassady, R.H.I.A., C.T.R.; Cristina Clarke, Ph.D.; Wendy Cozen, D.O.; Cynthia Creech, C.T.R.; Kathleen Danley, M.A., M.S.; Kathleen Davidson-Allen, C.T.R.; Dennis Deapen, Dr.P.H.; Mignon Dryden, C.T.R.; Ray Gottfredson, B.S.; Ann Hamilton, Ph.D.; Gem Le, M.H.S.; Lihua Liu, Ph.D.; Paul Mills, Ph.D.; John Morgan, Dr.P.H.; Donna Morrell, C.T.R.; Kiumarss Nasser, D.V.M., Ph.D.; Cynthia O'Malley, Ph.D., M.P.H.; Catherine Quinn; Anthony Robbins, M.D., Ph.D.; Ronald Ross, M.D.; Sidney Saltzstein, M.D., M.P.H.; Thomas Taylor, Ph.D.; Katheryne Vance, C.T.R.; and Dee West, Ph.D. Addresses and phone numbers for the regional registries are listed in Appendix A.

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Report design and production by Maggie Burgos.

## ACKNOWLEDGMENTS AND DISCLAIMER

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# THE CALIFORNIA CANCER REGISTRY

CCR is a collaborative effort among the California Department of Public Health, Cancer Surveillance Section (CSS), the Public Health Institute, the Regional Registries, health care providers, cancer registrars, and cancer researchers throughout California and the nation. CSS collects, analyzes, and disseminates information on cancer incidence and mortality. The statewide population-based cancer surveillance system monitors the incidence and mortality of specific cancers over time and analyzes differential risks of cancer by geographic region, age, race/ethnicity, sex, and other social characteristics of the population. It gathers cancer incidence data through CCR, and conducts and collaborates with other researchers on special cancer research projects concerning the etiology, treatment, risk factors, and prevention of specific cancers. In addition, the system is designed to monitor patient survival with respect to the type of cancer, extent of disease, therapy, demographics, and other parameters of prognostic importance. In general, data generated from CCR is utilized to:

- Monitor the amount of cancer and cancer incidence trends by geographic area and time in order to detect potential cancer problems of public health significance in occupational settings and the environment, and to assist in their investigation;
- Provide information to stimulate the development and targeting of resources to benefit local communities, cancer patients, and their families;
- Promote high quality research into epidemiology and clinical medicine by enabling population-based studies to be performed to provide better information for cancer control;
- Inform health professionals and educate citizens regarding specific health risks, early detection, and treatment for cancers known to be elevated in their communities; and
- Respond to public concerns and questions about cancer.

Legislation declaring cancer to be a mandatorily reported disease in California became effective in 1985. Beginning in January 1988, under the Statewide Cancer Reporting Law (Section 103885 of the Health and Safety Code), CCR has covered the entire population of California through the regional population-based registries.

## Cancer Reporting in California

- 1947** California Tumor Registry established in selected large hospitals
- 1960** Alameda County Cancer Registry established as the first population-based cancer registry in California
- 1969** San Francisco Bay Area Registry included in National Cancer Institute's (NCI) Third National Cancer Survey
- 1972** Cancer Surveillance Program (CSP) of Los Angeles County established
- 1973** San Francisco Bay Area Registry included in NCI's Surveillance, Epidemiology, and End Results (SEER) Program
- 1983** Cancer Surveillance Program of Orange County established
- 1985** California Cancer Reporting Law signed into effect (CCR established)
- 1988** Population-based Cancer Reporting Initiated Statewide
- 1992** CSP of Los Angeles County included in SEER Program
- 1997** 50 Years of Cancer Reporting in California
- 2000** Publish Ten-Years of Complete Statewide Cancer Reporting

*Source: California Cancer Registry*

# THE CALIFORNIA CANCER REGISTRY AND PROTECTION OF INDIVIDUAL PRIVACY

CCR strives to improve the lives of Californians through research into the causes, early detection, prevention, and treatment of cancer. While pursuit of this goal requires that individual information be collected, data security and protecting the confidentiality of medical records are the Cancer Registry's highest priorities. All patient information in the registry is protected by the requirements of California Health and Safety Code Sections 100330 and 103875-103885, as well as by Civil Code Sections 1798-1798.70. Government Code Sections 6250-6265 and Section 56.05 further protect medical information. To further strengthen and assure patient confidentiality, CCR continually evaluates and imposes operational and programmatic procedures to maintain and review data security and confidentiality measures. Because of this priority, CCR has never had a breach of confidentiality of patient records.

CCR makes vital contributions to the understanding of cancer. Researchers using CCR data may contact cancer patients to obtain additional information. Individuals with cancer usually find it rewarding to participate in these studies, which offer an opportunity to personally engage in the fight against cancer. CCR will only release information to researchers under tightly controlled circumstances where the qualified researcher has first obtained approval from the Committee for the Protection of Human Subjects. Researchers are strictly prohibited from pressuring patients into participating, and patients may decline participation at any time, and for any reason. Furthermore, cancer patients may request that their contact information be withheld from researchers. In its pursuit to improve the health of Californians, CCR maintains that the protection of individual privacy is its highest priority.



**SUMMARY OF RESEARCH  
PROJECTS UTILIZING  
CALIFORNIA CANCER  
REGISTRY DATA**

*The real purpose of collecting cancer information is so that it can serve in the search for causes and cures.*

## SUMMARY OF RESEARCH PROJECTS UTILIZING CALIFORNIA CANCER REGISTRY DATA

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period	
<b>FEDERAL FUNDING</b>						
Agency for Healthcare Policy and Research	Using Cancer Registries to Assess Quality of Cancer Care	Ayanian, J; Wright, WE; West D	1/8	\$165,489	1998-2002	
Centers for Disease Control and Prevention	Men's Selected Cancers	Austin, D	CA	\$1,250,000	Not Avail.	
	Patterns of Ovarian Cancer Incidence	Bernstein, L	9	\$50,000	2000-2002	
	Prostate Cancer Screening Choices for African-Americans	Bloom, J; S Stewart	1/8	\$222,144	2002-2004	
	Improving Health Surveys for Multiethnic Populations	D'Onofrio, C	1/8	\$720,994	1992-1996	
	Breast Cancer and Personal Environmental Risk Factors in Marin County	Erdmann, C	1/8	\$62,343	2002-2003	
	Social Class, Race/Ethnicity, and Cancer Incidence Rates	Kreiger, N	1/8	\$203,156	1995-1997	
	San Francisco City Clinic Cohort Study	Lifson, A	1/8	\$5,600	1989-1990	
	Predictors of Prostate Cancer Severity at Diagnosis in African Americans vs. Caucasian Men	Satariano, W	1/8	\$123,749	1999-2000	
	Breast, Colon, and Prostate Cancer Date Quality and POC Study (CONCORD)	West, D	1/8	\$55,571	2002-2004	
	National Program of Cancer Registries: CCR Support and Enhancement	Wright, WE	CA	\$4,006,455	1994-1999	
Department of Defense	Part III: Ovarian Cancer Patterns of Care	Wright, WE; Cress, R	CA/3	\$268,921	2001-2002	
	Identifying Quality of Life and Psychosocial Risk Factors and their Sociocultural Mediators in African American, Filipina, Latina, and White Breast Cancer Survivors	Ashing-Giwa, K	9	\$500,000	Not Avail.	
	Reducing the Burden of Breast Cancer	Ashing-Giwa, K	9	\$983,430	2004-2009	
	The Hygiene Hypothesis and Breast Cancer: A Novel Application of an Etiologic Theory for Allergies, Asthma, and Other Immune Disorders	Clarke, C	1/8	\$600,000	2005-2008	
	Childbearing and Survival after Breast Cancer	Deapen, D	9	\$211,943	1994-1998	
	Comorbidity Risk Model for Breast Cancer Patients	Esserman, L	1/8	Not Avail.	2002-2007	
	Admixture and Breast Cancer Risk Among Latinas	John, E	1/8	\$239,541	2004-2007	
	Department of Defense and US Army Medical Research	Racial/Ethnic Differences in Breast Cancer Risk Factors	John, E	1/8	\$790,516	1996-2000
		Choice of Breast Cancer Therapies in 4 Ethnic Groups	Lee, M	1/8	\$148,599	1994-1996
		Biological Specimen Bank to Enhance Population-Based Studies of Inherited Breast Cancer Genes	Li, F; Anton-Culver, H	7/10	\$357,183	1994-1998
CCR Enhancement for Breast Cancer Research		Wright, WE	CA	\$803,996	1994-1998	
Department of Energy and Lockheed	AIDS Linkage	West, D	1/8	\$5,000	1997	
International Agency for Research on Cancer	Incidence of Cancer in Polish-Born Migrant Populations	Parkin, DM	9	Not Avail.	Not Avail.	
National Action Plan for Breast Cancer	Needs Assessment for National Breast Cancer Tissue Bank	Anton-Culver, H	7/10	\$38,238	1994-1995	
National Cancer Institute (NCI)	Women's Treatment Choices by Cohort and Ethnicity	Adler, S	1/8	\$232,643	1995-2000	
	Resource Development for Genetic Studies of Breast Cancer	Anton-Culver, H	7/10	\$73,290	1992-1993	
	Hereditary Breast Cancer: Genetic and Molecular Studies	Anton-Culver, H	7/10	\$6,789,649	1994-2003	
	Gene Environment Study of Familial Colorectal Cancer	Anton-Culver, H	7/10	\$1,177,469	1994-1999	
	Biological Specimen Bank to Enhance Population-Based Studies of Inherited Breast Cancer	Anton-Culver, H	7/10	\$75,178	1995-1998	
	UCI-UCSD Cancer Genetics Network	Anton-Culver, H	7/10	\$4,445,991	1998-2006	

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI	NCI Cancer Genetics Networks Informatics Center at UCI	Anton-Culver, H	7/10	\$2,974,185	1998-2006
	NCI Cooperative Family Registry for Breast and Colon Cancer Studies Informatics Center at UCI	Anton-Culver, H	7/10	\$4,362,288	1998-2003
	Cancer Care Outcomes Research and Surveillance Consortium	Ayanian, J	CA	Not Avail.	2001-2006
	Promoting Screening Mammography among High-Risk Women	Bastani, R	9	Not Avail.	1990-1992
	A Study of Black and White Men with a Family History of Prostate Cancer	Bastani, R	9	\$388,740	1995
	Colorectal Cancer Screening in High-Risk Individuals	Bastani, R	9	\$2,048,819	1998-2002
	Chemoprevention of Superficial Bladder Cancer	Beldegrun, A	9	\$6,300,000	2002-2007
	Chemoprevention of Cervical Cancer w/Beta-Carotene	Berman, M; Anton-Culver, H	7/10	\$74,590	1991-1996
	Second Cancers in Patients with Hodgkin's Disease	Bernstein, L	9	\$176,656	1986-1991
	Tamoxifen Therapy for Breast Cancer and Endometrial Cancer Risk	Bernstein, L	9	Not Avail.	1986-1992
	Relationship of Leukemia Risk to Radiation Dose Following Cancer of the Uterine Corpus	Bernstein, L	9	\$72,974	1987-1991
	Case-Control Study of Breast Cancer in Young Women	Bernstein, L	9	\$754,365	1988-1992
	CARE Study: Oral Contraceptives and Risk of Breast Cancer	Bernstein, L	9	\$6,974,706	1992-1998
	Etiology of Gastric/Esophageal Adeno Carcinoma	Bernstein, L	9	\$1,736,943	1993-1998
	Cost/Benefit Study of Tamoxifen	Bernstein, L	9	\$900,000	1994-1996
	Epidemiology and Molecular Biology of Breast Carcinoma <i>In Situ</i>	Bernstein, L	9	\$141,200	1995-1996
	Tamoxifen: Risk of MI, Stroke, and Venous Thromboembolism	Bernstein, L	9	\$432,501	1997-1998
	Surviving Breast Cancer	Bernstein, L	9	\$168,329	1998-1999
	Endogenous Hormones, IL-6, and NHL Risk in Women	Bernstein, L	9	Not Avail.	2004-2007
	Physical Activity, Ovarian, and Endometrial Cancer Risk	Bernstein, L	9	\$162,500	2002-2005
	Reducing Avoidable Cancer Mortality Among Blacks	Bloom, J	1/8	\$493,655	1985-1991
	Breast Cancer in Younger Women: A Population-Based Approach	Bloom, J	1/8	\$1,450,148	1994-1998
	Hormonal Factors in Invasive and LMP Ovarian Cancer	Brewster, W	7/10	\$453,600	2003-2007
	Cancer Incidence Among Transplant Recipients: 1990-2001	Butler, L	CA	\$50,000	2004-2005
	Diet, Activity, and Reproduction as Risks for Colon Cancer	Caan, B	1/8	\$131,000	1991-1994
	Association of Medicaid Status with Late-stage Cervical Cancer and Validation of Medicaid Status from the Medical Record	Clarke, C; Perkins, C	1/8 & CA	\$125,283	2001-2002
	A Genetic Linkage Study of Testicular Cancer	Cortessis, V	9	\$3,779,221	2004-2009
	Protocol for a National HIV/Cancer Match Registry	Cote, T	9	\$2,500	1992-1993
	Tumor Susceptibility, Genetic Mutations, and Risk of Lung Cancer	Cozen, W; T Mack	9	\$270,287	2001-2006
	Fertility Drugs and Ovarian Cancer	Croughan-Minihane, M	1/8	\$1,670,168	1996-1999
	Socioeconomic Status of Patients w/ Prostate or Uterine Cancer	Deapen, D	9	\$299,715	1999-2001
	Treatment and Outcome in AIDS-Related Lymphoma	Diamond, C	7/10	\$538,992	2002-2007
	Skin Cancer Prevention Trial Follow-up Study	Ernster, V	1/8	\$977,731	1990-1992
	Bay Area Breast Cancer Translational Research Project	Ernster, V	1/8	Not Avail.	Not Avail.

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI	Occurrence of Other Cancers Among Patients with Prior Basal Cell and Squamous Cell Skin Cancer	Ernster, V; Greenberg, ER	1/8	\$30,172	1990-1992
	Pathogenesis of Kaposi's Sarcoma	Gill, P; Ross, R	9	\$1,659,969	1989-1994
	Reproductive Factors in Hodgkin's Disease in Women	Glaser, S	1/8	\$515,367	1989-1994
	Breast Implant Surveillance Study	Glaser, S	1/8	\$311,513	1992-1994
	Epstein-Barr Virus in Hodgkin's Disease in Women	Glaser, S	1/8	\$70,418	1994-1996
	EBV-Associated Hodgkin's Disease: Epidemiologic Characteristics in International Data	Glaser, S	1/8	\$398,733	1997-1998
	Reliability of EBV Detection in Hodgkin's Disease	Glaser, S	1/8	\$36,300	1998-2000
	Survival with Hodgkin's Disease in a Multi-Ethnic Population: The Prognostic Value of Epstein-Barr Virus	Glaser, S	1/8	\$372,774	1998-2000
	Development of Assays to Detect Epstein-Barr Virus in Breast Cancer	Glaser, S	1/8	\$145,500	2003-2005
	Familial Hodgkin's Lymphoma: A Pilot Study of Cancer Registry Screening	Glaser, S	1/8	\$50,000	2005-2007
	Hepatocellular Carcinoma: A Cross-Sectional Study of Attributable Cause	Glaser, S; Clarke, C	1/8	\$126,822	2000-2002
	Colorectal Cancer Family Study	Haile, R	9	\$12,000,000	1997-1998
	Colorectal Cancer Family Study-Continuation	Haile, R	9	\$5,287,552	2004-2009
	Multiethnic/Minority Cohort Study of Diet and Cancer	Henderson, B	9	\$2,537,982	1993-1998
	Genetic Susceptibility to Cancer in Multi Ethnic Cohorts	Henderson, B	9	\$21,834,479	2001-2006
	Epidemiology of Non-Hodgkin's Lymphoma and Retroviral Tests	Holly, E	1/8	\$134,692	1991-1993
	Case-Control Study of Pancreatic Cancer	Holly, E	1/8	\$533,958	1994-2005
	Molecular Epidemiology of Non-Hodgkin's Lymphoma	Holly, E	1/8	\$1,111,406	2001-2006
	Epidemiology of Salivary Gland Cancer	Horn-Ross, P	1/8	\$315,000	1990-1995
	Thyroid Cancer Among Women in a Multi-Ethnic Population	Horn-Ross, P	1/8	\$1,004,000	1994-1998
	Phytoestrogens, Physical Activity, and Endometrial Cancer	Horn-Ross, P	1/8	\$890,000	1997-2001
	Risk Factors for Advanced Prostate Cancer	Ingles, S	9	\$2,785,093	1999-2004
	Breast Cancer Risk Factors in Hispanic Women	John, E	1/8	\$732,248	1995-1999
	Vitamin D Receptor Gene Polymorphism and Breast Cancer Risk	John, E	1/8	\$1,422,726	1999-2001
	Processes and Outcomes of Breast Cancer Care	Kahn, K	9	\$2,045,725	1999-2000
	Cancer Care Outcomes Research and Surveillance (CanCORS)	Kahn, K; P Ganz; D Deapen	9	\$5,868,559	2001-2006
	Breast Cancer Treatment Decisions and Outcomes in Latinas	Katz, S; A Hamilton	9	\$1,363,772	2004-2007
	San Francisco Mammography Registry: A Research Resource	Kerlikowske, K	1/8	\$2,636,039	2000-2005
	Bay Area Breast Cancer Translational Research Program- Outcomes Core-Extension	Kerlikowske, K	1/8	\$322,227	2002-2007
	Predictors of Recurrent Breast Tumors in Women w/ DCIS-Extension	Kerlikowske, K	1/8	\$554,233	2002-2006
	Socioeconomic Trends in Breast Cancer Incidence	Kreiger, N; D Deapen	9	\$74,720	2002-2004
	Health Care Delivery Systems and Cancer Outcomes	Lee-Feldstein, A	3	\$237,147	1996-1999
	Herpes Virus Antibodies as Predictors of Lymphoma	Levine, P	9	Not Avail.	1992
	Epidemiology of HIV-Related Lymphoma	Levine, P; L Bernstein	9	\$1,509,830	1989-1994
	Inherited MSH2/MLH1 Mutations in Colon Cancer Subgroups	Li, F; H Anton-Culver	7/10	\$290,454	1995-1999
	Discovery of Novel Genetic Variants in Susceptibility of Colorectal Cancer	Lipkin, S	7/10	\$100,000	2004-2006

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI	Epidemiologic Research in Cancer Etiology	Mack, T	9	\$4,815,755	1986-1993
	Development of Methodology to Study Cancer Incidence in Communities Near Toxic Waste Disposal Sites	Mack, T	9	\$50,000	1986-1988
	Hormonal and Medical Exposures and Female Thyroid Cancer	Mack, W	9	\$66,680	1996-1997
	Single-Visit Cervical Cancer Prevention Program	Manetta, A; H Anton-Culver	7/10	\$2,244,692	1998-2003
	Cancer Surveillance Using Health Claims Based Data	McBean, AM	1/8	Not Avail.	Not Avail.
	Risk Factors for Extrahepatic Bile Duct Cancers: LA County, CA (USA)	Menck, H	9	\$68,718	1988-1989
	Chemoprevention of Human Melanoma	Meyskens, F; H Anton-Culver	7/10	\$1,070,840	1989-1992
	UCI Cancer Center Support Grant	Meyskens, F; H Anton-Culver	7/10	\$13,985,546	1994-2002
	Chemoprevention of Familial Prostate Cancer	Meyskens, F; H Anton-Culver	7/10	\$5,330,908	1999-2004
	Farm Worker's Questionnaire Development Study	Mills, P	2	\$20,000	1997-1998
	Cancer Incidence and Mortality in CA Farm Workers	Mills, P	2	\$618,450	2003-2007
	Marijuana Use and the Risk of Lung and Other Cancers	Morgenstern, H	9	\$2,184,658	1998-2003
	Enhancing the Participation of Latinas in Breast Cancer Support Groups	Napoles-Springer, A	1/8	\$50,000	2003-2004
	Cancer in the Middle Eastern Population in California	Nasseri, K	4	\$117,800	2003-2005
	Exercise for Bone Health: Young Breast Cancer Survivors	Oakley-Girvan, I	1/8	\$2,100,000	2005-2010
	An Evaluation of Different Sources of Data on Comorbidity for Cancer Surveillance	O'Malley, C; W Satariano	1/8	\$102,174	2001-2002
	Genetic Epidemiologic Study of Bilateral Breast Cancer	Paganini-Hill, A	9	\$39,726	1989-1990
	Breast Cancer Risk and Hormonal Replacement Therapy	Paganini-Hill, A; R Ross; R Lobo	9	\$1,113,170	Not Avail.
	Cancer Surveillance Among Patients with Autoimmune Disease	Parikh-Patel, A	CA	\$212,040	2004-2006
	GIS for Extant Data: Modeling H. Pylori and GI Tumors	Parsonnet, J	1/8	\$225,000	2002-2005
	Diet and Colon Cancer in Los Angeles County, California	Peters, R	9	\$39,726	1986-1988
	Case-Control Study of Adenocarcinoma of the Cervix	Peters, R	9	\$797,381	1988-1992
	Breast Cancer Incidence in Women w/Abnormal Breast Cytology	Petrakis, N	1/8	\$536,000	1988-1992
	Epidemiology and Natural History of Breast Cancer	Petrakis, N	1/8	\$255,462	1991-1994
	Case-Control Study of Post-Menopausal Endometrial Cancer	Pike, M; R Peters	9	\$723,900	1989-1994
	Case-Control Study of Ovarian Cancer in LA County	Pike, M; R Peters	9	\$2,452,065	1993-1999
	Pathology of Breast Cancer and Hormone Receptors	Press, M	9	\$2,165,028	1998-2004
	Exposure to Medical Radiation and AML FAB Subtype	Preston-Martin, S	9	\$1,192,302	1999-2004
	Follow-Up Case-Control Study of Oral and Laryngeal Cancer	Preston-Martin, S	9	\$43,887	1990-1991
	Risk Factors for Acute Myeloid Leukemia	Preston-Martin, S; BE Henderson; DC.Thomas	9	\$1,468,285	1987-1997
	Childhood Brain Tumors and N-Nitroso Exposures	Preston-Martin, S; E Holly	9	\$1,381,286	1988-1993
	5-Alpha-Reductase Genotype, Race, and Prostate Cancer Risk	Reichardt, JKV	9	\$1,002,300	1995-1999
	Passive Smoking	Reynolds, P	CA	\$174,955	1985-1993
Breast Cancer Among Teachers Exposed to EMF	Reynolds, P	CA	\$286,707	1995-1998	
Occupation, ETS, and Lung Cancer in Nonsmoking Women	Reynolds, P	CA	\$57,042	1996-1998	
Childhood Cancer-Etiologic Clues Using GIS	Reynolds, P	CA	\$335,462	1996-2000	
Regional Variation in Breast Cancer Rates in California	Reynolds, P	CA	Not Avail.	1999-2002	

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI	Exposure Insights Using GIS in a Case-Control Study	Reynolds, P	1/8	\$1,528,019	2002-2007
	Levels of Maternal Alpha Fetoprotein in Pregnant Women and Subsequent Breast Cancer Risk	Richardson, BE	1/8	\$72,250	1992-1994
	Preventive Oncology Academic Award	Richardson, J	9	\$377,451	1986-1991
	Case-Control Study of Multiple Myeloma	Ross, R	9	\$811,628	1985-1991
	USC Cancer Center Epidemiology and Biostatistics Unit: Latrogenic Causes of Cancer	Ross, R	9	\$16,537,093	1987-1997
	Environmental and Genetic Risk Factors for Bladder Cancer	Ross, R	9	\$1,505,306	1993-1996
	Genetic and Environmental Risk Factors for Bladder Cancer	Ross, R	9	\$793,555	1995-2000
	COX-2 Expression and Risk Factors for Bladder Cancer	Ross, R	9	\$337,188	2001-2004
	Genes and the Estrogen Effects on Endometrial Cancer	Ross, R; P Horn-Ross	9	\$747,486	2002-2006
	The Work Experiences of Colorectal Cancer Patients	Sanchez, K	9	\$63,961	1998-2000
	Vocational Rehabilitation of Colorectal Cancer Survivors	Sanchez, K	9	Not Avail.	1999-2001
	Assessment of Fatigue as a Late Effect of Cancer Therapy in Adult Survivors of ALL	Sanchez, K; L Bernstein	9	\$75,000	2001-2002
	Experiences of Lung Cancer Survivors	Sarna, L	9	\$100,000	1998-unknown
	Population-Level Effects of a Colorectal Cancer Screening Program	Selby, J; T Levin	1/8	\$160,490	2001-2002
	The SEER-NLMS Record Linkage Study	Singh, G	1/8	\$1,448,550	1999-ongoing
	Molecular and Cellular Approaches to Breast Cancer Diagnosis and Prognosis	Smith, H	N/A	\$5,000	1987-1992
	Increasing Incidence of Breast Cancer: Assessment of Population Trends Across the SEER Program and ID of Contributing Factors	Swanson, M; P Horn-Ross	1/8	\$156,998	1990-1992
	Genetic Epidemiology of Gastric Cancer	Theuer, C; H Anton-Culver	7/10	\$394,039	Not Avail.
	Estrogen Metabolism in a Multiethnic Population	Ursin, G	9	\$81,875	1995-1996
	BRCA1, Oral Contraceptives, and Hormonal Risk Factors	Ursin, G	9	\$906,011	1999-2004
	Steroid Receptors and Ewing's Sarcoma of Bone in Children	Van Tornout, J	9	\$541,000	1999-2004
	Molecular -Cellular Predictors of Breast Cancer Prognosis	Waldman, F	1/8	\$1,500,000	1987-2000
	Cytometric and Other Markers of Bladder Cancer	Waldman, F	1/8	\$300,000	1989-2000
	CCOP '89 and '90	West, D	1/8	\$87,483	1990-1992
	Analysis of Black/White Cancer Survival Rates in an HMO	West, D	1/8	\$26,000	1991-1992
	Obtaining Cost of Cancer Data from Health Maintenance Records-Kaiser (I & II)	West, D	1/8	\$378,742	1991-1993
	Accuracy of Racial Classification of Vietnamese Patients in a Population-Based Cancer Registry	West, D	1/8	\$245,432	1991-1997
	<i>In Situ</i> Breast Cancer	West, D	1/8	\$36,547	1992-1993
	Patterns of Care Study	West, D	1/8	\$82,256	1993
	Northern CA Cooperative Family Registry	West, D	1/8	\$2,400,000	1995-1998
	Familial Registry for Breast Cancer (FRBC)	West, D	1/8	\$3,687,821	1995-1998
	Familial Registry for Breast Cancer (FRBC)-Continuation	West, D	1/8	\$10,777,225	2000-2006
	Northern CA Family Registry for Breast Cancer- Continuation	West, D	1/8	\$10,777,225	2000-2006
	Colorectal Cancer Cooperative Family Registry (Colon CFR)	West, D	1/8	\$1,016,000	2004-2009
	SEER Expansion	West, D	1/8	\$1,100,365	Not Avail.
	Prostate Cancer in High, Medium, and Low Risk Populations	Whitemore, A	1/8	\$106,167	1989-1993
	Lobular Carcinoma <i>In Situ</i> of the Breast	Wong, P	1/8	Not Avail.	1993-1994
	Genetic and Molecular Epidemiology of Adult Glioma	Wrensch, M	1/8	\$1,081,007	1991-2006

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI	Using Cancer Registries to Assess Quality of Cancer Care	Wright, WE; J Ayanian	CA	\$1,439,869	1998-2001
	Breast and Other Cancers in the CA Teacher's Cohort	Wright, WE; R Ross	CA & 9	\$21,603,833	1998-2009
	Lung Cancer in Non-Smoking Women	Wu, A	9	\$473,306	1988-1991
	Case-Control Study of Prostate Cancer	Wu, A	9	\$677,449	1989-1993
	Risk Factors of Lung Cancer in Non-Smoking Women	Wu, A	9	\$68,281	1992-1993
	Collaborative Study of Ovarian Cancer in Two Risk Groups	Wu, A	9	\$800,441	1993-1998
	Hormone Receptors and Colorectal Cancer in Women	Wu, A	9	Not Avail.	1998-2002
	Hormone Replacement Therapy and Colon Cancer	Wu, A	9	\$2,493,067	1999-2004
	Tobacco Metabolism Genes and Gastric Cancer	Wu, A; M Yu	9	\$96,657	1998-2000
	Case-Control Study of Hepatocellular Carcinoma among non-Asians	Yu, M	9	Not Avail.	1981-2000
	Hepatocellular Carcinoma in LA County	Yu, M	9	\$5,000	1984-1999
	Somatic non-Hipple-Lindon Cell Inactivation and Renal Cell Carcinoma Risk Factors	Yu, M; R Ross	9	\$171,000	1986-1996
NCI and Dartmouth University	Long-Term Effects of Beta-Carotene on Cancer Occurrence	Ernster, V	1/8	\$32,503	1991
NCI and Emory University	Black/White Survival Study	Liff, J	1/8	\$20,883	1993-1994
NCI and Lawrence Livermore Laboratory	Study of Unreported Incidence of Cutaneous Malignant Melanoma	West, D	1/8	\$162,415	1987-1991
NCI and Mt. Sinai	Breast Cancer Radiation Exposure and ATM Expression	Bernstein, J; H Anton-Culver	7/10	\$833,841	1999-2004
	BRCA1 Tumor Tissue Retrieval	Glaser, S	1/8	\$50,908	1996-1997
NCI and National Institute of Aging	Pilot Study-Influence of Old Age on Early Diagnosis of Cancer and Cancer Treatment	West, D	1/8	\$24,000	1992-1994
	Phase II of NIA/SEER Collaborative-Study-Comorbidity Study of Older Aged Cancer Patients	West, D	1/8	\$102,845	1993-1994
NCI and NCCC	BRCA1 and BRCA2 Mutations in Minority Families	West, D; H Anton-Culver	7/10	\$2,033,560	2000-2005
NCI and Surveillance, Epidemiology, and End Results	Childhood Cancer Clinical Trials: Who has Access?	Bernstein, L	9	\$120,380	1999-2001
	Assessing Quality of Life Among African-American and Caucasian Breast Cancer Survivors	Bernstein, L	9	\$382,331	1999-2002
	Prenatal Factors and Breast Cancer Risk: Feasibility Study	Bernstein, L	9	\$58,482	2001-2003
	Defining Issues of Survivorship for Long-term Survivors of Breast Cancer	Bernstein, L	9	\$130,934	2002-2004
	Interaction of Radiation, BRCA 1&2, and Breast Cancer	Bernstein, L	9	\$317,009	2002-2007
	Weight, Physical Activity, and Diet: Association with Prognosis for Invasive Breast Cancer (HEAL Study)	Bernstein, L; F Gilliland	9	\$1,137,897	1988-2003
	Weight, Physical Activity, Diet, and Breast Cancer Prognosis (HEAL)	Bernstein, L; F Gilliland	9	\$147,555	2003-2005
	Health, Eating, Activity, and Lifestyle (HEAL)	Bernstein, L F Gilliland	9	\$363,996	2004-2006
	Methods for Calculating Race/Ethnic Specific Cancer Incidence Rates for the Year 2000 and Beyond	Cockburn, M	9	\$88,364	2002-2003
	Reducing Reporting Delay and Reporting Errors in Melanoma Surveillance	Cockburn, M	9	\$132,733	2003-2004
	Assessing the Feasibility of Collecting Height, Weight, and Obesity in the Cancer Registry	Cockburn, M	9	\$36,954	2004-2005
	Prostate Cancer and Pesticide Exposure in Diverse Populations in California's Central Valley	Cockburn, M	9	\$683,406	2004-2007

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI and Surveillance, Epidemiology, and End Results	Does Completeness of SEER Follow-up Vary by Race/Ethnicity?	Cockburn, M	9	\$60,083	2005-2006
	Differential Wnt5a Expression: A Potential Prognostic Indicator and Future Screening Tool for Identification of High Risk Melanoma	Cockburn, M	9	\$50,000	2005-2006
	Melanoma Genes in High-Risk Twins	Cockburn, M	9	\$162,688	2005-2007
	Feasibility of Retrieval and Storage of Tissue Blocks for Cancer Patients	Cozen, W	9	\$84,360	2000-2002
	POPBLOCKS	Cozen, W	9	\$78,045	2001-2002
	Cancer Incidence Patterns Among Korean Americans	Cozen, W	9	\$41,548	2002-2003
	Discard Repository	Cozen, W	9	\$1,715,220	2003-2010
	Cytokine Polymorphism and Multiple Myeloma	Cozen, W; S Ingles	9	\$416,616	1999-2002
	Genetic Aspects of Chordoma	Deapen, D	9	\$32,413	1998-1999
	Assessing Completeness of Benign Brain Tumor Surveillance	Deapen, D	9	\$26,653	1998-1999
	Electronic Retrieval of Registry Source Documents	Deapen, D	9	\$209,262	1999-2000
	Assessing and Improving Quality of Cancer Surveillance Data for American Indians	Deapen, D	9	\$5,219	2000-2002
	Collection of Benign Brain Tumors	Deapen, D	9	\$25,782	2002-2003
	Prostate Cancer Practice Patterns and Health-Related Quality of Life	Deapen, D; L Bernstein R Ross	9	\$619,655	1994-1996
	Utility of SEER Data in the Descriptive Epidemiology of HIV-Associated Cancer	Deapen, D; M Cockburn	9	\$97,865	2000-2001
	Utility of the National Cancer Database and SEER Population-Based Data Systems for Studies of Cancer Patient Care	Deapen, D; A Hamilton	9	\$90,891	1999-2002
	Outcomes of Negative Prostate Biopsies in Older Men	Deapen, D; A Hamilton	9	\$33,784	2000-2002
	SEER Patterns of Care Study, 1999 & 2000	Deapen, D; A Hamilton	9	\$322,021	2000-2001
	SEER Patterns of Care Study, 2001	Deapen, D; A Hamilton	9	\$157,922	2001-2002
	SEER Patterns of Care Study, 2002	Deapen, D; A Hamilton	9	\$123,779	2002-2003
	SEER Patterns of Care Study, 2003	Deapen, D; A Hamilton	9	\$130,151	2003-2004
	Assessing the Utility of Medicare Claims to Identify Cancer Recurrence: A Feasibility Study	Deapen, D; A Hamilton	9	\$208,700	2003-2005
	SEER Patterns of Care Study, 2004	Deapen, D; A Hamilton	9	\$149,509	2005-2006
	To Validate Area-Based Indicators of Socioeconomic Status	Deapen, D; L Liu	9	\$235,135	1999-2002
	Assessing Smoking and Drinking in the Development of Tongue Cancer and Evaluation of QOL Following Different Treatment Options	Deapen, D; L Liu	9	\$270,653	2004-2006
	Review of Pathological Reporting of Depth of Invasion for Tongue Cancer	Deapen, D; L Liu	9	\$43,925	2005-2006
	Timing of Surgery in the Menstrual Cycle and Survival in Cervical and Ovarian Cancer	Formenti, S; W Cozen; M Pike	9	\$118,497	1998-2002
	Mammographic Breast Density, Weight, Physical Activity, Diet, and Breast Cancer Diagnosis	Gilliland, F; L Bernstein	9	\$175,862	1999-2002
	The Interaction of Genetic Susceptibility and Hormonal Exposure in Breast Cancer Diagnosis	Gilliland, F; L Bernstein	9	\$264,298	1999-2002
	Surveillance of Cancer Patients with Breast Implants	Glaser, S	1/8	\$311,513	1992-1994
	Survival After Prostate, Colorectal, Breast, and Cervical Cancer in Asian Subpopulations in the US, 1988-1994	Glaser, S; C Clarke	1/8	Not Avail.	1998-1999

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
FEDERAL FUNDING CONT.					
NCI and Surveillance, Epidemiology, and End Results	Age and Survival in a Population-Based Cohort with Hodgkin's Disease, 1983-1995	Glaser, S; C Clarke	1/8	Not Avail.	1999
	Use of Registry HIV/AIDS Data in NHL Research: A Methodologic Study	Glaser, S; C Clarke	1/8	\$92,000	2000-2001
	Validity of Self-Reported Family History of Lymphoma	Glaser, S; C Clarke	1/8	\$67,133	2000-2001
	Experiences of Care and Health Outcomes of Survivors of NHL	Hamilton, A	9	\$242,081	2002-2004
	Follow-up Care Use by Survivors	Hamilton, A	9	\$309,952	2003-2006
	The Role of Acculturation, SES, and Race/Ethnicity in the Diagnosis and Treatment of Stomach and Kidney Cancer	Hamilton, A	9	\$211,134	2003-2006
	Improving Outcomes in the Cancer Registry Data: A Feasibility Study	Hamilton, A	9	\$135,981	2005-2007
	Obtaining Information on Language Preference among Minority Cancer Patients	Hamilton, A	9	\$126,062	2005-2006
	Use of Complementary and Alternative Medicine by Cancer Patients	Hamilton, A; D Deapen	9	\$247,618	1998-2000
	Prostate Cancer Outcomes Study	Hamilton, A; F Gilliland;	9	\$465,607	1994-2004
	Feasibility Study for Use of Tissue Blocks from Prostate Cancer Cases	D Deapen Hamilton, A; F Gilliland; D Deapen	9	\$161,133	2000-2002
	Treatment Choices for Men with Prostate Cancer	Hamilton, A; D Penson	9	\$180,198	2004-2006
	Breast Cancer Incidence Study	Horn-Ross, P	1/8	\$89,998	1990-1992
	Study of Screening and Cervical Cancer	Horn-Ross, P	1/8	\$70,000	1991-1992
	Timing of Surgery in the Menstrual Cycle and Survival in Cervical and Ovarian Cancer	Horn-Ross, P	1/8	\$80,652	1998-1999
	Racial/Ethnic Differences in Breast Cancer Survival Among San Francisco Bay Area Women	Hsu, J; S Glaser	1/8	Not Avail.	1995-1996
	Assessing the Feasibility of Collecting Height, Weight, and Obesity in the Cancer Registry	Keegan, T	1/8	\$109,975	2004-2005
	Race, Socioeconomic Position, Immigration, and Neighborhood Effects on Cancer	Lin Gomez, S	1/8	\$116,031	2003-2005
	Obtaining Information on Language Preference among Cancer Patients	Lin Gomez, S	1/8	\$76,121	2005-2006
	Follow-up Care Use and Health Outcomes of Cancer Survivors (FOCUS) Study	Oakley-Girvan, I	1/8	\$270,000	2003-2006
	Breast Cancer Treatment by Race/Ethnicity: Focus on Asian Women	Prehn, A	1/8	Not Avail.	1998-1999
	Patterns of Survival from Non-Hodgkin's Lymphoma: The Impact of the AIDS Epidemic	Prehn, A	1/8	Not Avail.	1998-1999
	Determinants of Poor Survival Among Filipino Men Diagnosed with Prostate Cancer, 1988-1994	Prehn, A; S Lin	1/8	Not Avail.	1998-1999
	SEER Expansion	Ross, R	9	\$8,179,739	1992-1997
	Interdisciplinary Case-Control Study of non-Hodgkin's Lymphoma	Ross, R; W Cozen; D Deapen	9	\$869,392	1997-2002
	Health Status of Long-Term Survivors of Testis Cancer	Ross, R; D Raghaven	9	\$123,767	1998-2002
	Hereditary Non-Polyposis Colon Cancer: Age Specific Incidence and Penetration of RER + Colorectal Cancer	Ross, R; A Wu	9	\$430,522	1995-1996
	Surveillance, Epidemiology, and End Results	West, D	1/8	\$10,798,797	1990-1997
	Comparison of Methods for Classifying Hispanic Ethnicity in a Population-Based Cancer Registry	West, D	1/8	\$190,019	1990-1992
	Illness Behavior Pilot Study	West, D	1/8	\$27,605	1993-1994

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
<b>FEDERAL FUNDING CONT.</b>					
NCI and Surveillance, Epidemiology, and End Results	SEER Special Study, Cost of Cancer Treatment in Clinical Trials	West, D	1/8	\$126,654	1997-1998
	SEER Special Study: Patterns of Care	West, D	1/8	\$79,434	1997-1999
	SEER Patterns of Care (POC), 2001 Cases	West, D	1/8	\$71,406	2002-2003
	SEER Patterns of Care (POC), 2002 Cases	West, D	1/8	Not Avail.	2003-2004
	SEER Patterns of Care (POC), 2003 Cases	West, D	1/8	\$102,180	2004-2005
	Assessment of Patients' Experiences of Care: Collection of the CAHPS Instrument and Other Questionnaires in a Cancer Population	West, D; I Oakley-Girvan	1/8	\$159,379	2002-2004
	Assessing and Improving Quality of Cancer Surveillance Data for Native Americans	West, D; C O'Malley	1/8	\$28,000	2000-2001
	Screening for Hereditary Non-Polyposis Colorectal Cancer	Wu, A	9	\$383,272	1999-2002
	Epidemiology of Mismatched Repair in Colon Cancer Carcinogenesis: A Collaborative Study	Wu, A; R Ross	9	\$799,915	1997-1999
NCI and Sloan Kettering	A Model for Genetic Susceptibility	Berwick, M; H Anton-Culver	7/10	\$362,478	1999-2004
NCI and Stanford University	Genetic Epidemiology of Ovarian Cancer	Whittemore, A	1/8	\$3,801,034	1996-2004
NCI and University of Washington	Bone Density, Endogenous Hormones, and Breast Cancer Linkage	Glaser, S; AZ LaCroix	1/8	\$3,000	1997-1998
NCI and UC Berkeley	Pancreatic Tumor Block Removal	Glaser, S	1/8	\$3,000	1997-1998
	Social Class and the Black/White Crossover in the Age-Specific Incidence of Breast Cancer	Kreiger, N	1/8	\$33,634	1987-1988
NCI and UC San Francisco	Ovarian Cancer Linkage	Croughan-Minihane, M	1/8	\$3,000	1997-1998
	Mammographic Practice and Performance in the Population	Ernster, V	1/8	\$1,200,000	1997-2000
	Epidemiologic, Histopathologic, and Biologic Factors Associated w/Recurrence of Ductal Carcinoma <i>In Situ</i>	Glaser, S	1/8	\$56,091	1997-1998
NCI, UCB, NCCC, & BCRP	Risk Notification for Women at High Risk of Breast Cancer-Sisters	Bloom, J	1/8	\$647,982	1999-2001
	Young Breast Cancer Survivors: A Population-Based Cohort	Bloom, J	1/8	\$1,216,001	1999-2006
NCI and UC San Diego/Walton Foundation	Women's Healthy Eating and Living (WHEL) Trial	Stefanick, M	1/8	\$584,268	1997-2002
National Institute of Child Health and Development	Breast Cancer and the Birth Control Pill: Case-Control Study of Perimenopausal & Past Oral Continued Use	Bernstein, L	9	\$4,592,351	1992-1998
National Institute of Environmental Health Science	Organochlorine Residue Levels & Risk of Breast Cancer	Longnecker, M; L Bernstein	9	\$699,079	1994-1998
	Population, Environment & Health: A Nexus at the Border	Neutra, R	CA	\$189,442	1995-1999
	Childhood Leukemia and Environmental Exposures	Reynolds, P	1/8	\$440,575	2004-2009
	Molecular Epidemiology of Childhood Leukemia	Reynolds, P	CA	Not Avail.	Not Avail.
	Bladder Cancer Case-Control Study of Arsenic in Water	Smith, A	2	\$1,100,000	1997-2001
National Institute of Environmental Health Science and US Army	Magnetic Fields and Breast Cancer Risk	London, S	9	Not Avail.	1994-1999
National Institute of Environmental Health Science and EPA	Long-Term Concentrations of Ambient Air Pollutants and Incident Lung Cancer in California Adults: Results from the AHSMOG Study	Abbey, D	5	\$210,000	1993-1996
National Institute of Environmental Health Science and NCI	The Bay Area Lung Cancer Study-Biomarkers of Lung Cancer Susceptibility in Minorities	Wiencke, J	1/8	\$6,694,768	2005-2009

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
<b>FEDERAL FUNDING CONT.</b>					
National Institutes of Health	Older Patient-Physician-Alternative Healer Relationships	Adler, S	1/8	\$1,031,313	2001-2004
	Negative Predictive Value of Screening Mammography & Excisional Breast Biopsy	Kerlikowske, K	1/8	\$30,724	1994-1995
	GIS and Socioeconomic Trends in Breast Cancer Incidence	Kreiger, N	1/8	\$1,390,495	2003-2006
	Culture and Ethnic Variations in Breast Cancer Treatment	Lin Gomez, S	1/8	\$275,000	2005-2007
	Follow-up of a Cohort of Firefighters in Los Angeles County	Mack, W	9	Not Avail.	1999-unknown
	Cancer Care and Outcomes Research Consortium (CanCORS)	West, D	1/8	\$192,240	2003-2004
	San Francisco Bay Area Lung Cancer Study	Wiencke, J	1/8	\$820,118	1998-2005
	San Francisco Bay Area Adult Glioma Prognosis Study	Wrensch, M	1/8	\$1,626,990	2002-2007
	Quality of Life Among Breast Cancer Survivors from Diverse Populations	Yoo, G	1/8	\$1,000,000	2004-2008
National Institutes of Health and University of Michigan	Determinants of Surgical Treatment Choice for Women with Early Breast Cancer: Comparing DCIS to Invasive	Katz, S; D Deapen; L Liu	9	\$117,086	2001-2002
National Institutes of Health and Walton Foundation	A Randomized Controlled Trial of Plant-Based Diet in Breast Cancer Reduction: WHEL Study	Haan, M	3	Not Avail.	1995-2000
National Institute of Occupational Safety and Health	Cancer Incidence and Mortality Due to Radiation and Chemical Exposures at Rocketdyne	Ritz, B	9	\$376,416	Not Avail.
	Cancer Mortality and Case Incidence Among Workers Exposed to Perchloroethylene in Dry Cleaning Plants	Ruder, A	1/8	\$508	1990-1991
National Program of Cancer Registries and Public Health Institute	Treatment Patterns and Outcomes of Patients Diagnosed with Ovarian Cancer	O'Malley, C	1/8	\$167,493	2001-2003
Social Security Administration	A Pilot Project to Link San Francisco/Oakland SEER Registry Data & SSA Earning and Disability Data	West, D; N Breen; B Kasenbaum	1/8	Not Avail.	Not Avail.
US Army Medical Research	Molecular Determinants of Prostate Cancer Progression Across Race/Ethnicity	Ross, R	9	\$2,200,891	2000-2003
<b>STATE FUNDING:</b>					
California Cancer Registry and Dept. of Health Services	Urban/Rural Differences in the Prevalence of Breast Cancer Risk Factors	Horn-Ross, P	1/8	\$150,000	1995-1996
California Cancer Research Program	Bridging Prostate Cancer Screening Gap for High-Risk Men	Bloom, J; S Stewart	1/8	\$878,694	2003-2005
	Prostate Cancer in Rural CA: Diagnosis and Treatment	Campleman, S	6	\$266,715	1999-2001
	Genetic Epidemiology of Testicular Cancer and Cryptorchidism	Cortessis, V	9	\$1,678,344	1999-2004
	BRCA1/2 Mutations, Oral Contraceptives, and Ovarian Cancer	Cozen, W	9	\$170,782	1999-2002
	Quality of Care for Women with Ovarian Cancer	Cress, RD	3	\$327,424	1999-2001
	Advanced Prostate Cancer: Risk Factors in African Americans	Ingles, S	9	\$1,499,943	2000-2003
	Vitamin D Receptor and Advanced Prostate Cancer	Ingles, S	9	\$2,408,291	Not Avail.
	Oral Contraceptives, BRCA 1/2 Mutations and Ovarian Cancer	John, E	1/8	\$50,000	1999
	Lifestyle Factors and Risk of Advanced Prostate Cancer	John, E	1/8	\$503,621	1999-2001
	Vitamin D and Prostate Cancer Progression	John, E	1/8	\$153,419	1999-2000

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
<b>STATE FUNDING CONT.</b>					
California Cancer Research Program	Prevalence of Complementary Therapy Use and Quality of Life Outcomes in a Follow-Up of Men w/ Prostate Cancer from High, Medium, and Low Risk Populations	Lee, M	1/8	\$797,952	1999-2002
	Prostate and Testis Cancer in Farm Workers	Mills, P	2	\$410,469	1999-2001
	Triazine Herbicides and Ovarian Cancer	Mills, P	2,3	\$926,325	1999-2001
	Cancer Incidence and Risk Factors in the Hmong in California	Mills, P	2	\$275,000	2004-2005
	Cervical Cancer Incidence and Survival in California Women	Nasseri, K	4	\$125,000	2003-2005
	Candidate Gene Association Studies of Ovarian Cancer	Pike, M	9	\$272,074	2000-2003
	Exploring Perinatal Risk Factors for Testicular Cancer	Reynolds, P	CA	Not Avail.	Not Avail.
	Ovarian Cancer in Multiethnic Populations in Los Angeles County	Wu, A	9	\$1,842,782	1998-2001
	A Multiethnic Study of Ovarian Cancer in Los Angeles County	Wu, A	9	\$1,095,523	2000-2003
California Cancer Research Program and The Baxter Foundation	Causes of Testicular Cancer and Cryptorchidism- Extension	Cortessis, V	9	\$415,625	2003-2004
NCCC	Absence of EBV EBER-1 Transcripts in an Epidemiologically Diverse Group of Breast Cancers	Glaser, S	1/8	Not Avail.	1995-1996
Prop. 99- Tobacco Tax	Laryngeal Cancer Risk Factors: Tobacco Interactions	Austin, D	CA	\$735,000	1990-1993
	A Genetic Marker of Lung Cancer Risk Among Blacks and Whites	London, S	9	\$1,037,175	1990-1993
	Genetic Markers of Lung Cancer Risk Among Blacks & Whites	London, S	9	\$307,247	1992-1995
	Tobacco-Related Disease in Native CA Twins	Mack, T	9	\$90,000	1997-1998
	Epidemiologic Study of Brain Tumors	Preston-Martin, S	9	\$994,258	1989-1992
	Environmental and Genetic Risk Factors for Bladder Cancer	Ross, R	9	\$1,149,699	1990-1993
	Breast Cancer Risk Among School Teachers	Wright, WE	CA	\$2,259,593	1995-1998
	Smoking and Risk of Proximal vs. Distal Gastric Cancer	Wu, A	9	\$837,475	1992-1995
	State of California	Assessment of p53 Mutations in Tamoxifen-Associated and Spontaneous Endometrial Cancer	Bernstein, L	9	\$264,000
State of California and Stanford University	Prostate Cancer Survival in a Multi-Ethnic Cohort	Whittemore, A	1/8	\$10,003	1999-2001
Tobacco-Related Disease Research Program	ETS Exposures in the California Teachers Study Cohort	Reynolds, P	CA	\$461,697	1998-2001
	Temporal Modifiers of the Radon-Smoking Interaction	Thomas, D	9	\$79,948	1990-1991
	Smoking, Microsatellite Instability, and Gastric Cancer	Wu, A	9	\$730,644	2001-2004
UC Davis Breast Cancer Early Detection	Orange County Breast Cancer Early Detection Regional Demonstration Partnership	Murray, E; H Anton-Culver	7/10	\$11,880	1994-1996
University of California Pacific Rim Research Program	Comparison of the Molecular Biology of Gastric Cancer Specimens from the Far East with Those from the United States	Theuer, C; H Anton-Culver	7/10	\$45,625	1998-2000
University of California Regents	Hormone Receptors and Breast Cancer Prognostic Factors	Bernstein, L	9	\$37,800	1997
	Physical Activity, Diet, and Menarche in a Multiethnic Cohort	Bernstein, L; C Koprowski	9	\$80,551	1997-1998
University of California Universitywide AIDS Research Program	Epstein-Barr Virus in AIDS-Related Lymphomas	Samoazuk, M; H Anton-Culver	7/10	\$125,590	1991-1993

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
STATE FUNDING CONT.					
University of California Breast Cancer Research Program	Breast Cancer Knowledge/ Attitudes-Southern California Pacific Islanders	Anton-Culver, H	7/10	\$70,000	1997-1999
	HRQOL Among a Multiethnic Sample of Cervical Cancer Survivors	Ashing-Giwa, K	9	\$1,115,285	2000-2004
	Breast Cancer Survivors 10 Years Later: A Population-Based Approach	Bloom, J	1/8	\$944,961	2004-2008
	The Hygiene Hypothesis and Breast Cancer Risk	Clarke, C	1/8	\$366,997	2003-2006
	Dietary Indole Effect on Estrogen Urinary Metabolites	Dalessandri, K	1/8	Not Avail.	2001-2003
	Susceptibility to Breast Cancer: Dietary and Other Factors	Delfino, R; H Anton-Culver	7/10	\$299,973	1995-1998
	Epstein-Barr Virus in Breast Cancer Tissues	Glaser, S	1/8	\$275,564	2003-2005
	Genetic Susceptibility to Breast Cancer	Henderson, B	9	Not Avail.	1997-1998
	Role of Plant Estrogens in Reducing Breast Cancer Risk	Horn-Ross, P	1/8	\$412,586	1995-1998
	Diet and Breast Cancer in the CA Teacher's Study Cohort	Horn-Ross, P	1/8	\$105,000	1998-2000
	Migration and Breast Cancer Risk in Hispanics	John, E	1/8	\$997,926	2001-2006
	Latinas and DCIS: Treatment Decision and Quality of Life	Kaplan, C	1/8	\$774,174	2004-2007
	Predictors of Recurrent Breast Tumors in Women w/ DCIS	Kerlikowske, K	1/8	\$374,569	1996-1999
	Improving Health-Related QOL in Older Women after the Diagnosis of Breast Cancer	Maly, R	9	\$360,000	2000-2001
	Pesticides and Breast Cancer in Hispanic Women	Mills, P; R Yang; D Riordan	2	\$310,388	2001-2004
	Determinants of Breast-Conserving Surgery and Survival	Morris, C	CA	\$69,090	1995-1997
	Exercise and the Risk of Breast Cancer Recurrence	Pike, M	9	\$245,447	1998-2001
	HER-2/neu Polymorphism, Gene Amplification, and Breast Cancer	Press, M; L Bernstein	9	\$1,147,535	2001-2006
	Breast Cancer Incidence in CA Flight Attendants	Reynolds, P	CA	\$56,922	1997-1998
	Birth Characteristics and Breast Cancer in Young Women	Reynolds, P	1/8	\$904,343	2004-2007
	Xenoestrogens and Breast Cancer in African-American Women	Reynolds, P	CA	Not Avail.	Not Avail.
	NCCC Breast Cancer Research Training Program	Ross, R	9	\$80,551	1997-1998
	Do Community Cancer Support Groups Reduce Physiological Stress?	Spiegel, D	1/8	Not Avail.	Not Avail.
	BRCA1/2 Mutations, Oral Contraceptives, and Risk of Breast Cancer in Young Women	Ursin, G	9	\$1,041,683	1993-1999
	Oral Contraceptives, Hormonal Risk Factors, and BRCA1	Ursin, G; L Bernstein	9	\$1,241,290	1998-2002
	Radiographic Density and Breast Cancer Prevention	Ursin, G; M Pike	9	\$252,722	1998-2000
	Breast Cancer Incidence in Marin County: Relationship to Known Risk Factors	Wrensch, M; M Gould	1/8	\$249,492	1999-2003
	Estrogen Metabolizing Genes, Soy, and Breast Cancer	Wu, A	9	\$1,668,227	1999-2003
	Case-Control Study of Breast Cancer in Asian-American Women	Wu, A	9	\$639,758	1995-1998
	Gene-Diet/Tobacco Interactions in Breast Cancer in Asians	Wu, A	9	\$149,624	1997-1998
	Lifestyle Factors and Breast Cancer Prognosis in Asian Americans	Wu, A	9	\$1,050,751	2003-2006
	Tea, Genes, and Their Interactions and Breast Cancer	Wu, A	9	\$1,611,004	2004-2007
	Genetic and Environmental Modifiers of Breast Cancer Risk	Ziogas, A	7/10	\$287,988	2000-2002
UC San Francisco	Identification of Epithelial Tumor Susceptibility Genes	Anton-Culver, H	7/10	\$147,083	2004-2006

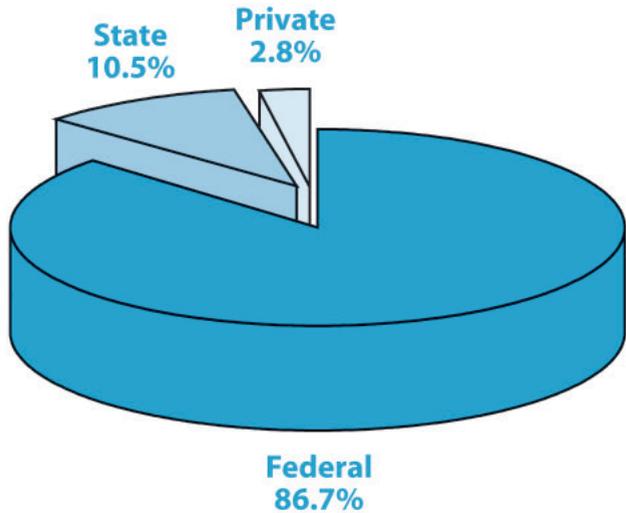
Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
<b>STATE FUNDING CONT.</b>					
University of Southern California Norris Cancer Center	A Feasibility Study to Rapidly Identify High-Risk Cancer Families	Hsieh, C	9	\$15,000	Not Avail.
University of Southern California School of Social Work	The Work Experiences of Breast Cancer Survivors	Sanchez, K	9	\$35,000	2003-2004
<b>PRIVATE FUNDING:</b>					
Alameda Naval	Possible Cancer Cluster Among Workers at Alameda Naval Air Station	Lipscomb, J	1/8	\$21,922	1991-1992
American Cancer Society	Orange County Health Survey	Anton-Culver, H	7/10	\$43,310	Annual
	Patterns of Enrollment on Cooperative Group Studies	Bernstein, L	9	\$76,395	1989-1992
	One Year Cancer Control Grant-Collaborative Pediatric Oncology	Bernstein, L	9	\$36,496	1990-1991
	Pediatric Cancer in Los Angeles County: Trends in Incidence, Mortality, and Survival	Bernstein, L	9	\$39,899	1991-1992
	Impact of Pregnancy Subsequent to a Diagnosis of Breast Cancer	Carlson, R	N/A	\$20,000	1989-1990
	Cancer Cause and Prevention Research Center	Henderson, B	9	\$1,000,000	1986-1990
	Cancer Patients and Their Spouses: Support, Communications, and Intimacy	Liddle, H	N/A	\$125,000	1987-1989
	Epidemiologic Studies of Primary Central Nervous System Neoplasms	Preston-Martin, S	9	\$205,000	1987-1991
	ID and Screening of Women at Elevated Risk of Breast Cancer	Richardson, J; Turner	9	\$35,000	1989-1991
	Gene-Environment Interactions in Renal Cancer	Semenza, J	7/10	\$11,950	1999
Humboldt County	Melanoma Study	Task Force	6	\$2,517	1993
	HPV and Cervical Cancer: Pathologic, Clinical, and Molecular Analysis	Wilczynski, S; H Anton-Culver	7/10	\$542,777	1989-1991
American Lung Association	Risk Factors of Lung Disease in Non-Smoking Women	Wu, A	9	\$60,000	1992-1994
BIOS, Inc.	A Library of Active RNA in Human Tissue	Anton-Culver, H	7/10	\$32,620	1990-1991
Children's Hospital of Philadelphia	Maternal Diet and Risk of Brain Tumor (PNET) in Children	Preston-Martin, S	9	\$34,000	1997-1998
Dana Farber Cancer Institute	ID of Prostate Cancer Families	Anton-Culver, H	7/10	\$50,770	1995-1996
Dow	Augmentation Mammoplasty Survival of Breast Cancer Cases from the Los Angeles Augmentation Mammoplasty Study	Deapen, D	9	\$212,946	1988-1993
		Deapen, D	9	\$11,911	1994
Duke University	Genetic Modifiers of BRCA1 and BRCA2	Anton-Culver, H	7/10	\$60,000	2004-2008
Egyptian Ministry	Cancer Registry Training in Egypt	Anton-Culver, H	7/10	\$20,000	1998
Electric Power Research Institute	Childhood Leukemia	Bowman, J	9	\$697,209	1988-1990
	Electromagnetic Fields and Childhood Leukemia	Peters, R	9	\$1,983,395	1988-1991
Honegger Estate	Choice of Breast Cancer Therapies in 4 Ethnic Groups	Lee, M	1/8	\$100,000	1993-1995
Impact Assessment, Inc.	Pilot Study of Risk Factors in Childhood Cancer	Anton-Culver, H	7/10	\$30,653	1989-1990
	Cancer Incidence and Mortality in the McColl Area	Anton-Culver, H	7/10	\$6,971	1991
	A Survey of Symptom Reporting and Public Perception in Relation to Malathion Application in Orange County	Anton-Culver, H	7/10	\$15,296	1991
Kaiser	Diet, Activity, and Reproduction Risks for Colon Cancer	Caan, B	1/8	\$15,000	1991-1994
Lon V. Smith Foundation	Genetic and Molecular Studies in Breast Cancer Families	Anton-Culver, H	7/10	\$211,000	1992-2002

Funding Source	Project Title	Principle Investigator(s)	Region	Amount	Project Period
PRIVATE FUNDING CONT.					
Lon V. Smith Foundation	Support for Cancer Research and Education	Anton-Culver, H	7/10	\$60,000	2004-2008
Merck	Accuracy of Screening Mammography in Younger vs. Older Women	Grady, D	N/A	\$190,000	1992-1995
MGH	Risk of Ovarian Cancer Algorithm (ROCA)	Anton-Culver, H	7/10	\$26,040	2004-2005
Missouri DPHS	Development of the Missouri Cancer Registry Information System	Anton-Culver, H	7/10	\$380,321	1997-2000
Mt. Sinai Medical School	Breast Cancer Radiation Exposure and ATM	Bernstein, L	9	\$1,348,948	1999-2003
	Molecular Epidemiology of Breast Cancer	Haile, R	9	\$158,664	1997-1998
	Prevalence of BRCA1	Haile, R	9	\$172,140	1997-1998
National Kidney Foundation	Gene-Environment Interactions in Renal Cancer	Semenza, J	7/10	\$50,000	1999-2001
Orange County Water District	Environmental Health Effects Study	Anton-Culver, H	7/10	\$880,033	1996-1998
Oak Ridge National Laboratory	Cancer-AIDS Registry Match	Anton-Culver, H	7/10	\$5,000	1998-1999
Plastic Surgery Educational Foundation	Continuation of the Los Angeles Augmentation Mammoplasty Study	Deapen, D	9	\$104,440	1994-1995
Private Donor	Chinese-American Neurological and Geriatric Study of Health Outcomes (CHANGSHOU) Pilot Study	Lin Gomez, S	1/8	Not Avail.	2003-2004
Research Triangle Institute	Protocol for a National HIV/Cancer Match Registry	West, D	1/8	\$2,500	1992-1993
Robert Wood Johnson Clinical Scholars Program	Population-Based Study of Surgical and Adjuvant Therapy Used in Rectal Cancer	Schroen, A	3	Not Avail.	1998-1999
South Coast Air Quality Management District	Assessment of Variation in Small Area Cancer Risk in Los Angeles County	Mack, T	9	\$25,000	1992-1996
Susan G. Komen Breast Cancer Foundation	Variation in Stage at Diagnosis in Breast Cancer Across California: Effects of Race/Ethnicity and Rural/Urban Residence	Campleman, S	6	\$128,867	2001-2003
	Soy, Tamoxifen, and Breast Cancer in Asian Americans	Wu, A	9	\$250,000	2003-2005
Sutter Institute	Respiratory Cancer Incidence and Mortality in Sacramento and Surrounding Cities	Schencker, M; V Caggiano	3	\$39,058	1991-1992
University of New Mexico	Genetic Susceptibility to Melanoma	Anton-Culver, H	7/10	\$68,850	2004-2005
	Solar Exposure and Melanoma Survival	Anton-Culver, H	7/10	\$16,457	2005-2006
University of North Carolina	Melanoma RAS/BRAF Mutation	Anton-Culver, H	7/10	\$18,212	2005-2006
Whittier Foundation	Research on Developing Innovative Strategies to Prevent Breast Cancer	Ross, R; M. Pike; L Bernstein; A Wu	9	\$883,132	1998-2001
	Exposure to Medical Radiation and AML FAB Subtype and Prognostic Factors on AML	Stern, M	9	\$125,000	2004-2005

# FUNDING SOURCES FOR GRANTS UTILIZING CALIFORNIA CANCER REGISTRY DATA, 1988-2006

**TOTAL KNOWN FUNDING: \$725,220,660**

## Funding Sources for Grants Utilizing CCR Data



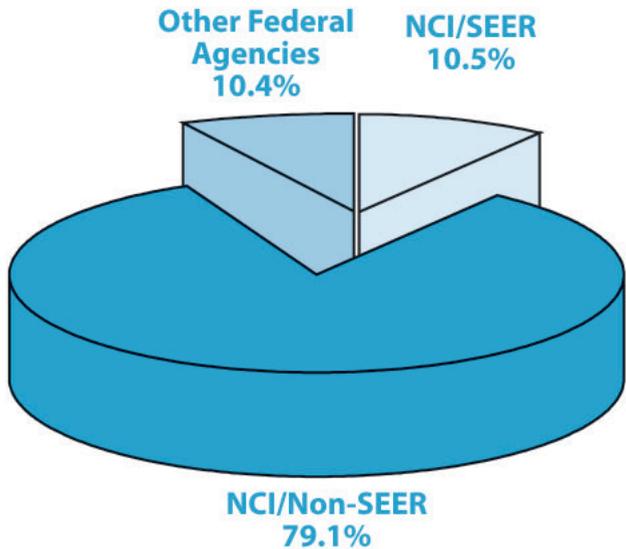
Private Agencies  
\$10,732,777

State of California  
\$40,807,101

Federal Agencies  
\$336,840,391

*Prepared by the California Department of Public Health, Cancer Surveillance Section.*

## FEDERAL AGENCY BREAKDOWN



Other Federal Agencies  
\$34,968,357

NCI\*/SEER\*\*  
\$35,283,847

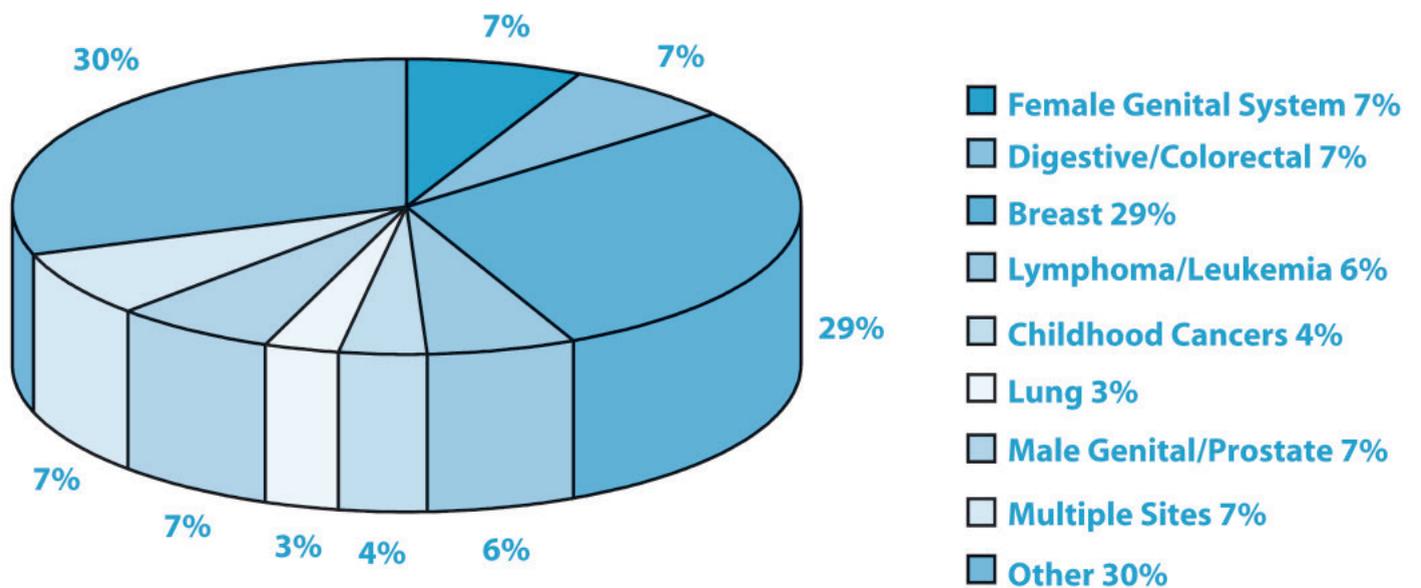
NCI/Non-SEER  
\$266,588,187

*Prepared by the California Department of Public Health, Cancer Surveillance Section.*

\* National Cancer Institute (NCI)

\*\* Surveillance, Epidemiology, and End Results—a surveillance program at NCI

# CALIFORNIA CANCER REGISTRY RESEARCH PROJECTS BY CANCER TYPE



Prepared by the California Department of Public Health, Cancer Surveillance Section.

# APPENDIX A

## Directory of Regional Registries

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**Region 1/8: NORTHERN CALIFORNIA CANCER CENTER**

2201 Walnut Avenue, Suite 300  
Fremont, CA 94538  
(510) 608-5000  
Fax: (510) 608-5095  
Counties: Region 1: Santa Clara Region (Monterey, San Benito, Santa Clara, and Santa Cruz counties). Region 8: Bay Area Region (Alameda, Contra Costa, Marin, San Francisco, and San Mateo counties).

**Region 2: CANCER REGISTRY OF CENTRAL CALIFORNIA**

1625 East Shaw Avenue, Suite 155  
Fresno, CA 93710  
(559) 244-4550  
Fax: (530) 345-3214  
Counties: Central Region (Fresno, Kern, Kings, Madera, Mariposa, Merced, Stanislaus, Tulare, and Tuolumne counties).

**Region 3: CANCER SURVEILLANCE PROGRAM, REGION 3**

2800 L Street  
Sacramento, CA 95816  
(916) 454-6522  
Fax: (916) 454-6523  
Counties: Sacramento Region (Alpine, Amador, Calaveras, El Dorado, Nevada, Placer, Sacramento, San Joaquin, Sierra, Solano, Sutter, Yolo, and Yuba counties).

**Region 4: TRI-COUNTIES REGIONAL CANCER REGISTRY**

3944 State Street, Suite 330  
Santa Barbara, CA 93105  
(805) 569-3101  
Fax: (805) 569-3126  
Counties: Tri-County Region (San Luis Obispo, Santa Barbara, and Ventura counties).

**Region 5: DESERT SIERRA CANCER SURVEILLANCE PROGRAM**

11368 Mt. View Avenue, Suite C  
Loma Linda, CA 92354  
(909) 558-6170  
Fax: (909) 558-6178  
Counties: Inland Empire Region (Inyo, Mono, Riverside, and San Bernardino counties).

**Region 6: CANCER REGISTRY OF NORTHERN CALIFORNIA**

25 Jan Court, Suite 130  
Chico, CA 95928  
(530) 345-2483  
Fax: (530) 345-3214  
Counties: North Region (Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Napa, Plumas, Shasta, Siskiyou, Sonoma, Tehama, and Trinity counties).

**Region 7/10: CANCER SURVEILLANCE PROGRAM OF ORANGE COUNTY (CSPOC)/ SAN DIEGO/IMPERIAL ORGANIZATION FOR CANCER CONTROL (SANDIOCC)**

Department of Medicine  
224 Irvine Hall  
University of California, Irvine  
Irvine, CA 92697  
(949) 824-7401  
Fax: (949) 824-9429  
Counties: Region 7: San Diego Region (Imperial and San Diego counties). Region 10: Orange County.

**Region 9: CANCER SURVEILLANCE PROGRAM**

University of Southern California  
1540 Alcazar Street, CHP-204  
Los Angeles, CA 90033-9921  
(323) 442-2300  
Fax: (323) 442-2301  
Counties: Los Angeles County.

# APPENDIX B

## Regional Cancer Registries Map











RESEARCH UTILIZING THE  
CALIFORNIA CANCER REGISTRY  
JULY 2007