

76 ACTUALS

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*National  
Cancer  
Institute*

NATIONAL CANCER PROGRAM



# 1976 NCI FACT BOOK

**NATIONAL CANCER PROGRAM**

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service                      National Institutes of Health

Revised January 1977

## PREFACE

The information set forth in this publication is compiled and amended annually by the Financial Management Staff of the National Cancer Institute and is intended primarily for use by members of the Institute staff, the principal advisory groups to the Institute and others involved in the administration and management of the National Cancer Program. Questions regarding any of the information contained herein may be directed to the Financial Manager, National Cancer Institute, 9000 Rockville Pike, Bethesda, Maryland 20014.

FACT BOOK COORDINATOR  
Frank B. Showers

### NOTICE

Fiscal Year 1976 information in this publication covers the period July 1, 1975 through June 30, 1976. Page 31 reflects obligation of funds during the Transition Quarter (July 1, 1976 through September 30, 1976).

# *National Cancer Institute* **1976 FACT BOOK**

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service                      National Institutes of Health

DHEW Publication No. (NIH) 77-512

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**DIRECTORY OF PERSONNEL**

**NATIONAL CANCER INSTITUTE  
NATIONAL INSTITUTES OF HEALTH  
BETHESDA, MARYLAND 20014**

**Area Code 301  
656-4000**

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<b>ADMINISTRATIVE OFFICER</b>	<b>BLAIR BUILDING</b>	
Mr. Hugh E. Mahanes .....	730 .....	427-7965

# NATIONAL CANCER INSTITUTE HISTORICAL DATA

## LEGISLATIVE HIGHLIGHTS

- March 7, 1928** — Senator M.M. Neely introduced S. 3554, "To authorize the National Academy of Sciences to investigate the means and methods for affording Federal aid in discovering a cure for cancer and for other purposes."
- April 12, 1937**—Congressman Warren G. Magnuson of Washington introduced H.R. 6100, an identical bill to S. 2067.
- July 8, 1937** — A joint hearing of the Senate and House committees was conducted before a Subcommittee on Cancer Research, and a revised bill was written.
- July 23, 1937** — The National Cancer Institute Act was passed by Congress.
- August 5, 1937**—The National Cancer Institute Act, Public Law 244, 75th Congress, was signed by President Franklin D. Roosevelt, "To provide for, foster, and aid in coordinating research relating to cancer; to establish the National Cancer Institute; and for other purposes." An appropriation of \$700,000 for each fiscal year was authorized.
- July 1, 1944** — The Public Health Service Act, Public Law 410, 78th Congress provided that "The National Cancer Institute shall be a division in the National Institutes of Health." The act also revised and consolidated many revisions into a single law. The limit of \$700,000 annual appropriation was removed.
- December 4, 1970** — Senator Ralph Yarborough, Texas, introduced S. 4564, "A bill which would establish a National Cancer Authority for the purpose of devising and implementing a national program for the conquest of the world's most dreaded disease — cancer."
- January 22, 1971** — In his State of the Union Message, President Nixon announced that he would ask for the appropriation of an additional \$100 million to launch an intensive effort to control cancer, and that he would ask later for whatever additional funds could be effectively used.
- March through November 1971** — Hearings on proposed legislation relating to cancer research expansion were held by both House and Senate subcommittees.
- October 18, 1971** — The President announced that the Army's Biological Defense Research Center at Fort Detrick, Maryland would be converted into a leading center for cancer research as part of the major campaign to conquer cancer.
- December 7, 1971** — After three conference sessions that began on November 30, the Senate-House Conference Committee agreed on S. 1828.
- December 9, 1971** — The House passed the bill by voice vote.
- December 10, 1971** — The Senate passed the bill 85-0 and sent it to the President for signature.
- December 23, 1971** — The President signed P. L. 92-218, The National Cancer Act of 1971, providing increased authorities and responsibilities for the NCI Director; initiating a National Cancer Program; establishing a three-member President's Cancer Panel and a 23-member National Cancer Advisory Board; establishing cancer control programs as necessary for cooperation with State and other health agencies; and providing for the collection, analysis, and dissemination of all data useful in the diagnosis, prevention, and treatment of cancer, including the establishment of an international cancer research data bank.
- January-February 1974** — Hearings were held on the proposed legislation to improve on the National Cancer Plan and to authorize appropriations for the next three years.
- July 23, 1974** — The National Cancer Act Amendments of 1974, P.L. 93-352, was signed. The Amendments: encourage the NCP to explore the role of nutrition in the treatment, rehabilitation, and causation of cancer; authorize the Director to include personnel needs in the budget estimate to OMB; remove the limit on the number of comprehensive cancer centers; increase the number of consultant/expert appointments to 100; and direct the NCI to provide and contract for a program to disseminate and interpret information respecting the cause, prevention, diagnosis and treatment of cancer.

## HISTORICAL EVENTS

- August 5, 1937** — President Franklin D. Roosevelt signed the National Cancer Act.
- November 9, 1937** — The National Advisory Cancer Council held its first meeting.
- January 13, 1938** — Dr. Carl Voegtlin was appointed the first Director of the Institute.
- October 31, 1940** — President Franklin D. Roosevelt dedicated Building 6.
- July 1, 1947** — NCI reorganized to provide for expanded program; intramural cancer research, cancer research grants, and cancer control activities.
- July 2, 1953** — NCI inaugurated a full-scale clinical research program in the new Clinical Center.
- April 1955** — The Cancer Chemotherapy National Service Center was established in the Institute to coordinate the first national, voluntary, cooperative cancer chemotherapy program.
- January 11, 1966** — NCI reorganized to coordinate related activities. The areas of three Scientific Directors were established: Etiology; Chemotherapy; and a group of discipline-oriented laboratories and branches referred to as General Laboratories and Clinics.
- February 13, 1967** — A Cancer Research Center was established in Baltimore USPHS Hospital to conduct an integrated program of laboratory and clinical research on the therapy and management of cancer patients.
- April 27, 1970** — At the request of Senator Ralph W. Yarborough, Chairman of the Committee on Labor and Public Welfare, the Senate approved the establishment of the National Panel of Consultants on the Conquest of Cancer.
- November 25, 1970** — The National Panel of Consultants submitted to the Senate Committee a report entitled "National Program for the Conquest of Cancer."
- October 18, 1971** — President Nixon converted the Army's former biological warfare facilities at Fort Detrick, Md., to research on the causes, treatment and prevention of cancer.
- December 23, 1971** — President Nixon signed P.L. 92-218, The National Cancer Act of 1971.
- June 22, 1972** — The Institute awarded a contract for the operation and maintenance of the Frederick Cancer Research Center at Fort Detrick, Maryland. This constituted the largest research contract ever awarded by a research component of the National Institutes of Health.
- June 30, 1972** — A team of five U.S. cancer scientists met with Russian scientists in Moscow to exchange information on cancer drugs. Dr. C. Gordon Zubrod, Scientific Director for Chemotherapy, NCI, on behalf of the United States, signed a U.S.-U.S.S.R. agreement for continued cooperation on the exchange of drugs, visiting scientists, and information.
- July 27, 1972** — A Bureau-level organization was established for the National Cancer Institute, giving the Institute and its components organizational status commensurate with the responsibilities bestowed on it by The National Cancer Act of 1971. Under the reorganization, the Institute was composed of the Office of the Director and four Divisions: the Division of Cancer Biology and Diagnosis; Division of Cancer Cause and Prevention; Division of Cancer Treatment; and Division of Cancer Grants.
- February 27, 1974** — The Division of Cancer Treatment completed negotiations with the University of Maryland to relocate the Baltimore Cancer Research Center within the University of Maryland Hospital Complex in Baltimore.
- September 10, 1974** — NCI established the Division of Cancer Control and Rehabilitation, which will plan, direct and coordinate an integrated program of activities regarding the widespread application of available and new methods for reducing the incidence, morbidity and mortality from cancer.
- July 1975**—The Division of Cancer Treatment was expanded to include the NCI Surgery and Radiation Oncology Branches and the extramural program of Cancer Cooperative Clinical Trials. The reorganization strengthened the Division's capabilities for conducting a national program of research on cancer treatment by combined modalities.

**ACTING DIRECTOR  
NATIONAL CANCER PROGRAM  
NATIONAL CANCER INSTITUTE**

**NOVEMBER 1, 1976 TO PRESENT**

**Guy Rene Newell, M.D.**

Dr. Guy R. Newell, was born in Bogalusa, Louisiana, September 21, 1937. Dr. Newell received both his B.S. (1959) and M.D. (1962) degrees from Tulane University and his M.S. in Hygiene from the Harvard School of Public Health in 1968. From July 1963 to June 1965, he served as a Research Planning Associate in the Office of the Director, NCI. Between July

1965 and June 1968, he received training in internal medicine and oncology at the Johns Hopkins Hospital and the Peter Bent Brigham Hospital. He returned to the NCI in July 1968, where he was an Assistant for Program, Viral Oncology and served as Executive Secretary, Biometry & Epidemiology Contract Review Committee until June 1970. From July 1970 until his appointment as Deputy Director, NCI in August 1973, Dr. Newell held positions of Assistant and then Associate Professor of Epidemiology at Tulane University.

**PRESIDENT'S CANCER PANEL**

	<b>EXPIRATION OF APPOINTMENT</b>
Mr. Benno C. Schmidt, Chairman J. H. Whitney & Co. New York City, New York	1978
Dr. R. Lee Clark University of Texas System Cancer Center Houston, Texas	1977
Dr. Paul A. Marks Columbia University New York City, New York	1979



## NATIONAL CANCER INSTITUTE EXECUTIVE COMMITTEE

Dr. Guy R. Newell, *Chairman*  
Acting Director, NCP/NCI

Mr. Calvin B. Baldwin, Jr.  
Associate Director for Administrative Management

Mr. Louis M. Carrese  
Associate Director for Program Planning and Analysis

Dr. Vincent T. DeVita, Jr.  
Director, Division of Cancer Treatment  
Clinical Director, NCI (acting)

Dr. Diane J. Fink  
Director, Division of Cancer Control and Rehabilitation

Dr. Thomas J. King  
Director, Division of Cancer Research Resources and Centers

Dr. Bayard H. Morrison III,  
Assistant Director, NCI

Dr. Gregory T. O'Connor  
Associate Director for International Affairs

Dr. James A. Peters  
Division of Cancer Cause and Prevention

Dr. Alan S. Rabson  
Director, Division of Cancer Biology and Diagnosis

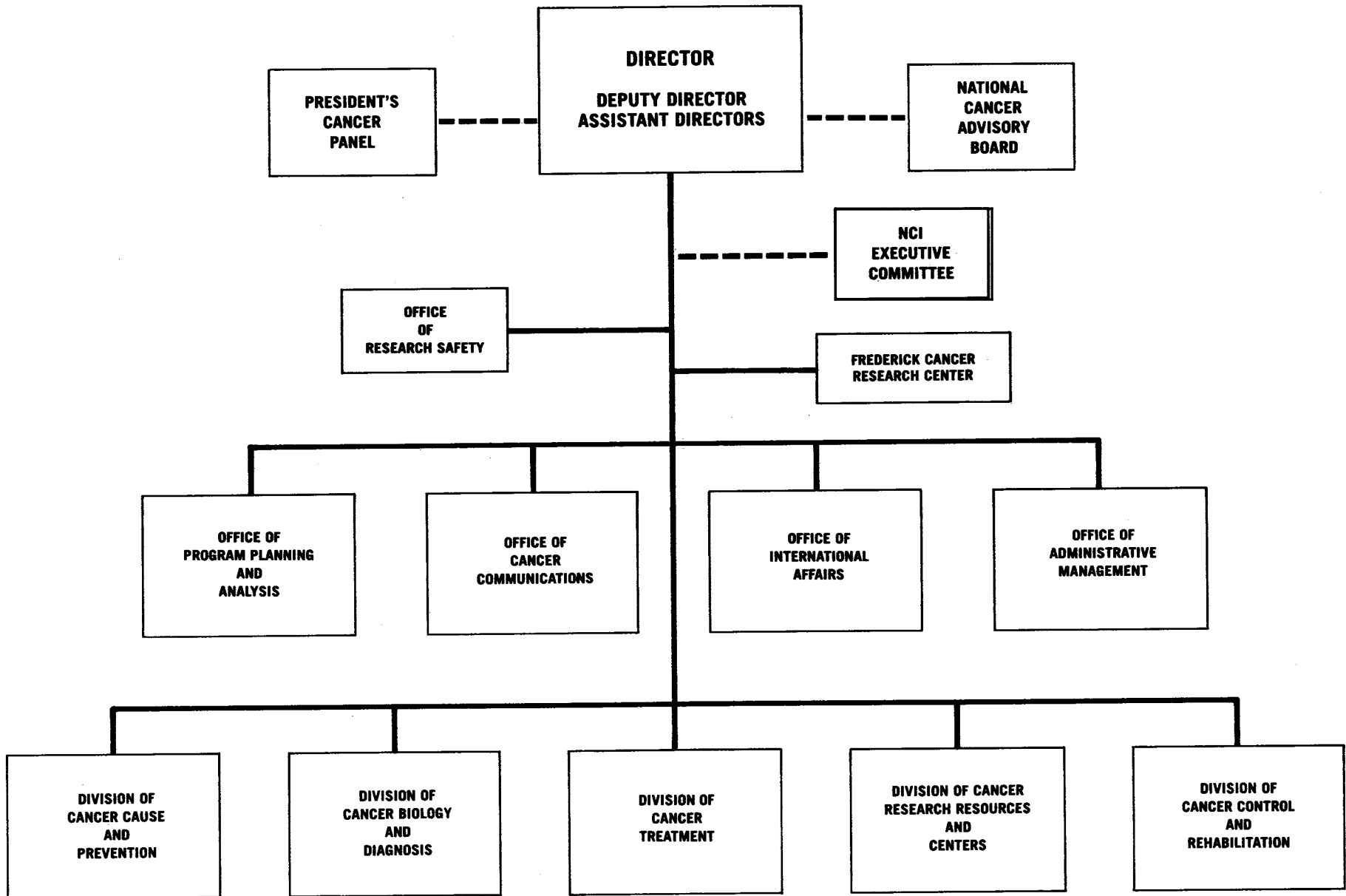
Dr. Richard A. Tjalma  
Assistant Director, NCI

Mr. J. Paul Van Nevel  
Associate Director for Cancer Communications

# NATIONAL CANCER ADVISORY BOARD

<b>APPOINTEES</b>	<b>EXPIRATION OF APPOINTMENT</b>		<b>EXPIRATION OF APPOINTMENT</b>
Dr. Jonathan E. Rhoads, <i>Chairman</i> University of Pennsylvania Philadelphia, Pennsylvania	1978	Dr. William Shingleton Duke University Medical Center Durham, North Carolina	1980
Dr. Bruce N. Ames University of California Berkeley, California	1982	Dr. Philippe Shubik University of Nebraska Omaha, Nebraska	1982
Dr. Harold Amos Harvard Medical School Boston, Massachusetts	1982	Dr. Gerald N. Wogan Massachusetts Institute of Technology Cambridge, Massachusetts	1978
Dr. William O. Baker Bell Telephone Laboratories, Inc. Murray Hill, New Jersey	1980	<b>EX OFFICIO MEMBERS</b>	
Dr. Frank J. Dixon Scripps Clinic and Research Foundation La Jolla, California	1978	Dr. John D. Chase Veterans Administration Washington, D. C.	
Dr. G. Denman Hammond University of Southern California Los Angeles, California	1980	Dr. Robert N. Smith Department of Defense Washington, D. C.	
Dr. David S. Hogness Stanford University Stanford, California	1978	Dr. H. Guyford Stever National Science Foundation Washington, D. C.	
Mrs. Mary Lasker Albert and Mary Lasker Foundation New York, New York	1980	Honorable Joseph A. Califano, Jr. Secretary of Health, Education, and Welfare Washington, D. C.	
Mrs. Vincent Lombardi Manalapan, Florida	1982	Dr. Donald S. Fredrickson Director, National Institutes of Health Bethesda, Maryland	
Dr. Joseph H. Ogura Washington University St. Louis, Missouri	1980	<b>ALTERNATES</b>	
Dr. Henry C. Pitot University of Wisconsin Madison, Wisconsin	1982	Dr. Thomas F. Newcomb Veterans Administration Central Office Washington, D. C.	
Dr. William E. Powers Thomas Jefferson University Philadelphia, Pennsylvania	1980	Dr. F. Kash Mostofi Armed Forces Institute of Pathology Washington, D. C.	
Mr. Laurance S. Rockefeller Memorial Sloan-Kettering Cancer Center New York, New York	1978	Dr. Eloise E. Clark National Science Foundation Washington, D. C.	
Mr. Morris M. Schrier MCA, Inc. New York, New York	1978	<b>EXECUTIVE SECRETARY</b>	
Dr. Frederick Seitz The Rockefeller University New York, New York	1982	Dr. Richard A. Tjalma National Cancer Institute Bethesda, Maryland	

# NATIONAL CANCER INSTITUTE



**OFFICE OF THE DIRECTOR**  
**Dr. Guy R. Newell, Acting Director**  
**Assistant Directors: Dr. Bayard H. Morrison III and Dr. Richard A. Tjalma**

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Plans, develops, directs, and coordinates the activities and programs of the Institute and of the National Cancer Program; and provides overall administrative guidance and services.

**FREDERICK CANCER RESEARCH CENTER**  
**Dr. William W. Payne**

**OFFICE OF RESEARCH SAFETY**  
**Dr. William E. Barkley**

**OFFICE OF PROGRAM PLANNING AND ANALYSIS**  
**Mr. Louis M. Carrese**

Manages development of the National Cancer Program Plan, the annual 5-year plan, individual program plans, and the evaluation plan; analyzes programs of the Institute; evaluates resource needs for the National Cancer Program; develops and provides support for management and scientific information systems.

**OFFICE OF CANCER COMMUNICATIONS**  
**Mr. Paul Van Nevel**

Develops and manages the program communications activities of the NCI/NCP; interprets program and organizes, prepares and disseminates reports on cancer research for research institutions and other organizations participating in the NCP; maintains liaison with NCI constituents on behalf of the Director; responds to public inquiries; prepares and coordinates internal reports for dissemination within the Institute, the Executive Branch, and the Congress; and serves as a focal point for information on legislation.

**OFFICE OF INTERNATIONAL AFFAIRS**  
**Dr. Gregory T. O'Connor**

Plans, coordinates, and manages cooperative international cancer research activities and provides leadership within the National Cancer Institute for the development of international programs and activities.

**OFFICE OF ADMINISTRATIVE MANAGEMENT**  
**Mr. Calvin B. Baldwin, Jr. Executive Officer**

Directs, coordinates, and conducts administrative management activities of the Institute including: personnel, budget, contracts, and administrative services; advises Director on administrative management aspects of the program.

**PROGRAM ANALYSIS AND FORMULATION BRANCH**  
**Dr. Robert Love**

**SYSTEMS PLANNING BRANCH**  
**Mr. John E. McShulsakis**

**PROGRAM LIAISON BRANCH**  
**Mr. Robert G. Schonfeld**

**EDUCATION & TECHNICAL REPORTS BRANCH**  
**Mr. William S. Gray**

**ADMINISTRATIVE SERVICES BRANCH**  
**Mr. Thomas L. Kearns**

**FINANCIAL MANAGEMENT BRANCH**  
**Mr. Earle L. Browning**

**PERSONNEL MANAGEMENT BRANCH**  
**Mrs. Elizabeth Stroud**

**RESEARCH CONTRACTS BRANCH**  
**Mr. James E. Graalman**

**MANAGEMENT POLICY BRANCH**  
**Mr. Robert M. Namovicz**

**DIVISION OF CANCER CAUSE AND PREVENTION**  
**Dr. James A. Peters, Director**  
**Dr. Gio B. Gori, Deputy Director**

Plans and directs a program of laboratory, field and demographic research on the cause and natural history of cancer and means for preventing cancer through direct in-house research and through research contracts; evaluates mechanisms of cancer induction by viruses and by environmental carcinogenic hazards; serves as the focal point for the Federal Government on the synthesis of clinical, epidemiological, and experimental data relating to the cause of cancer; and participates in the evaluation of and advises the Institute Director on program-related aspects of cancer control activities and of grants and grant applications as they relate to cancer cause and prevention.

**ADMINISTRATIVE  
MANAGEMENT BRANCH**  
**Mr. John M. Miller**

**FIELD STUDIES AND STATISTICS PROGRAM**  
**Dr. Marvin A. Schneiderman**

Plans, conducts, and evaluates demographic research activities of the NCP and provides statistical services for all NCP research programs.

**BIOMETRY BRANCH**  
 vacant

**ENVIRONMENTAL  
EPIDEMIOLOGY BRANCH**  
 Dr. Joseph F. Fraumeni, Jr.

**CLINICAL  
EPIDEMIOLOGY BRANCH**  
 Dr. Robert W. Miller

**CARCINOGENESIS PROGRAM**  
**Dr. Gio B. Gori, Acting**

Plans, implements, and administers coordinated program of basic and applied research on carcinogenesis by chemical and physical factors and on its prevention; conducts programs in the areas of (a) coordination on environmental carcinogenesis; and (b) epidemiologic pathology.

**BIOLOGY BRANCH**  
 Dr. Joseph A. DiPaolo

**CHEMISTRY BRANCH**  
 Dr. Harry V. Gelboin

**EXPERIMENTAL  
PATHOLOGY BRANCH**  
 Dr. Umberto Saffiotti

**LUNG-CANCER  
BRANCH**  
 Dr. Michael B. Sporn

**CARCINOGEN BIOASSAY  
AND PROGRAM  
RESOURCES BRANCH**  
 Dr. Cipriano Cueto

**CARCINOGEN METABOLISM  
AND  
TOXICOLOGY BRANCH**  
 Dr. Elizabeth K. Weisburger

**VIRAL ONCOLOGY PROGRAM**  
**Dr. John B. Moloney**

Plans and conducts the Institute's program of research and development dealing with viruses as etiological agents of cancer; supports programmatic investigations aimed at the detection, propagation, characterization, prevention, and control of tumor viruses and/or their induced diseases.

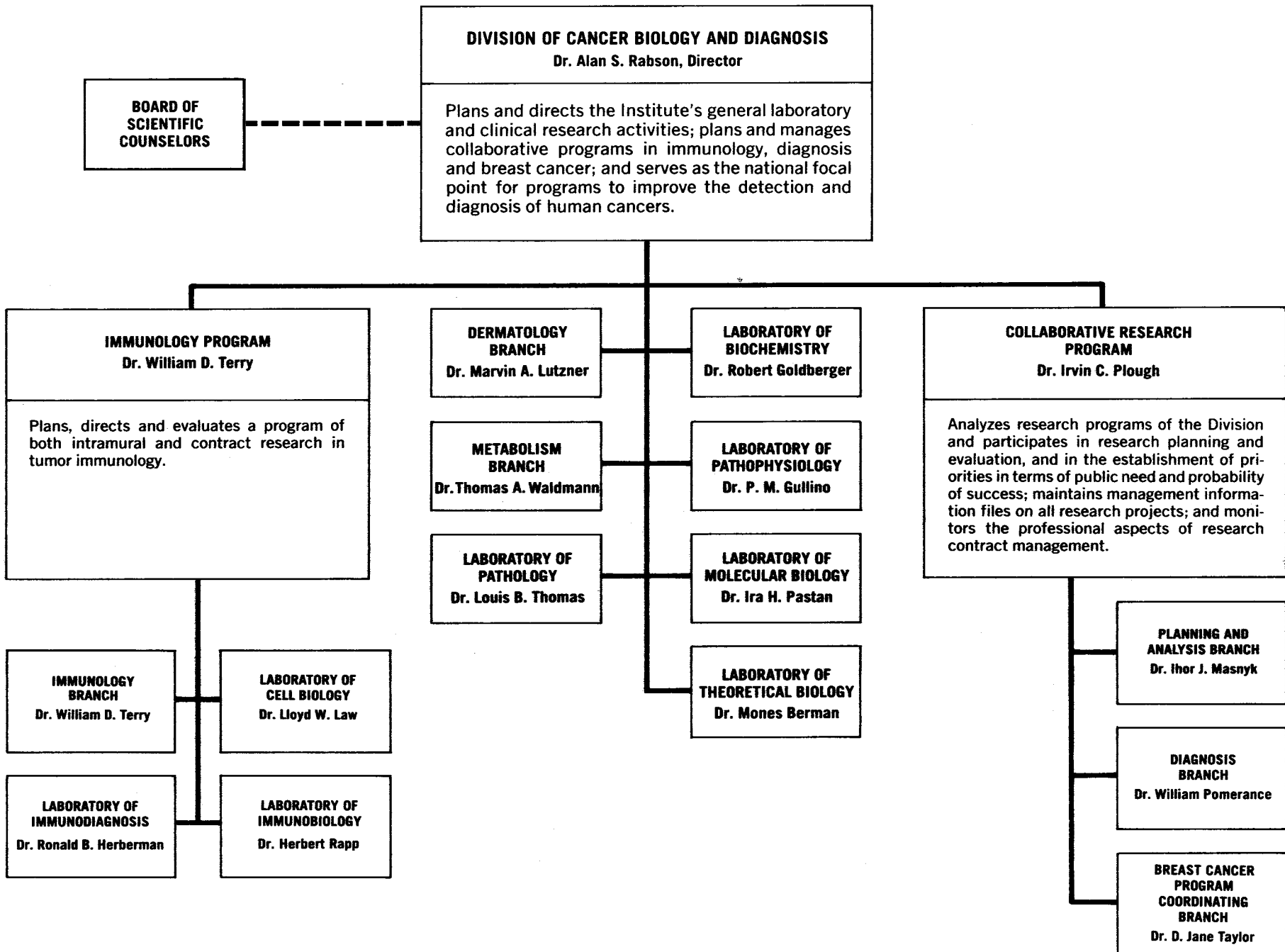
**LABORATORY OF TUMOR  
VIRUS GENETICS**  
 Dr. Edward M. Scolnick

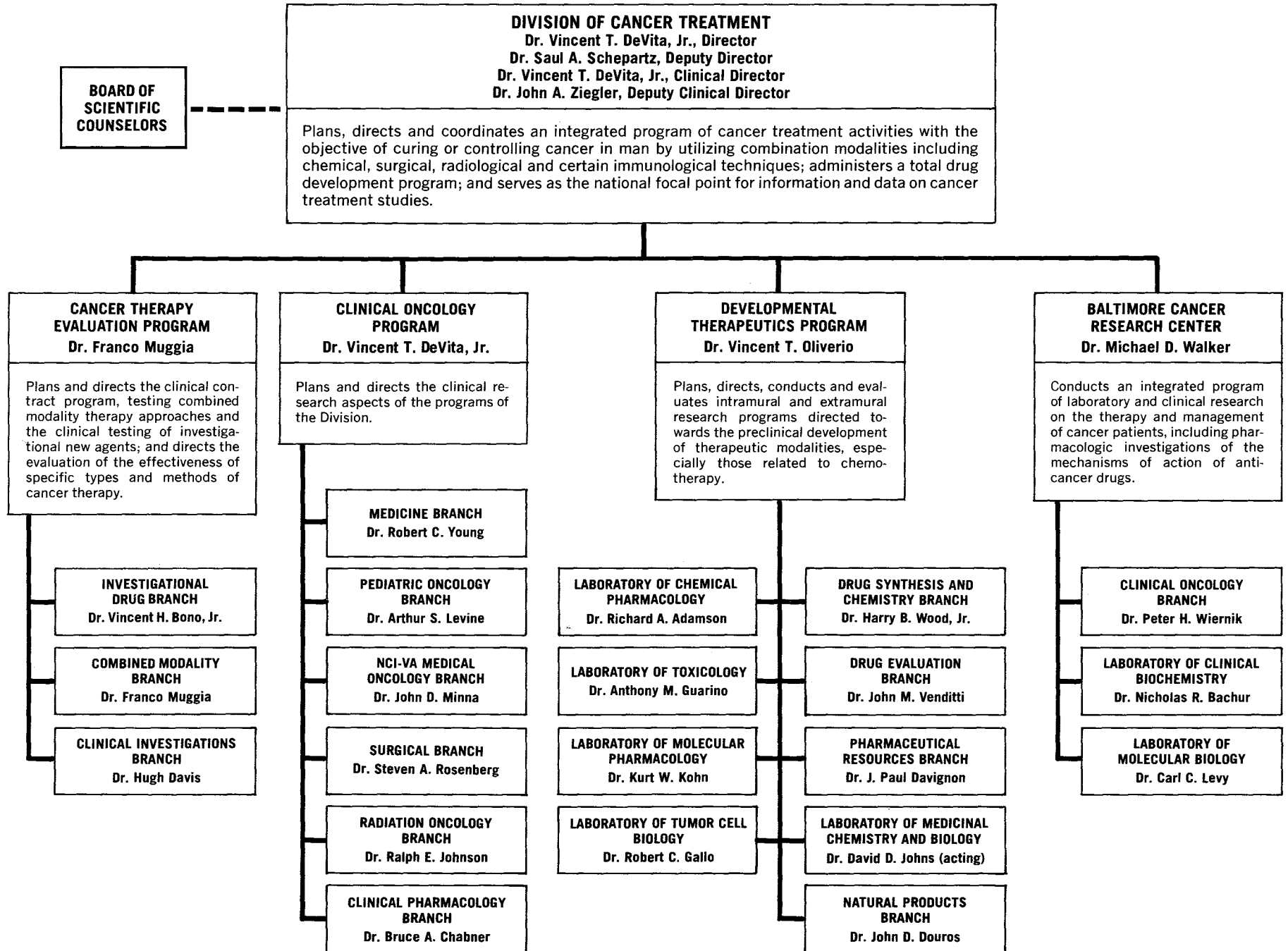
**COLLABORATIVE  
RESEARCH BRANCH**  
 Dr. Robert A. Manaker

**LABORATORY OF RNA  
TUMOR VIRUSES**  
 Dr. Robert J. Huebner

**LABORATORY OF DNA  
TUMOR VIRUSES**  
 Dr. Robert A. Manaker

**LABORATORY OF VIRAL  
CARCINOGENESIS**  
 Dr. George J. Todaro

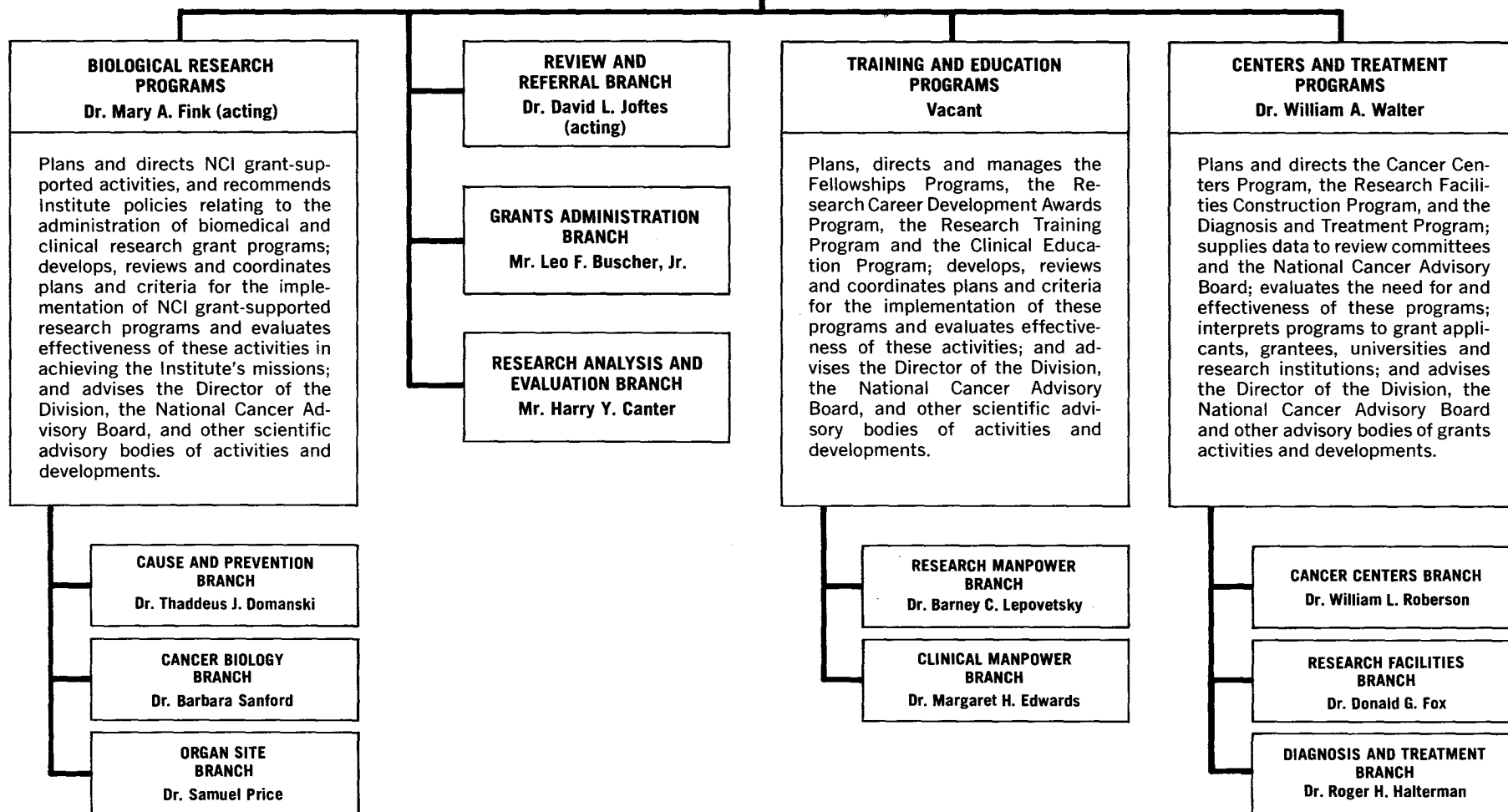




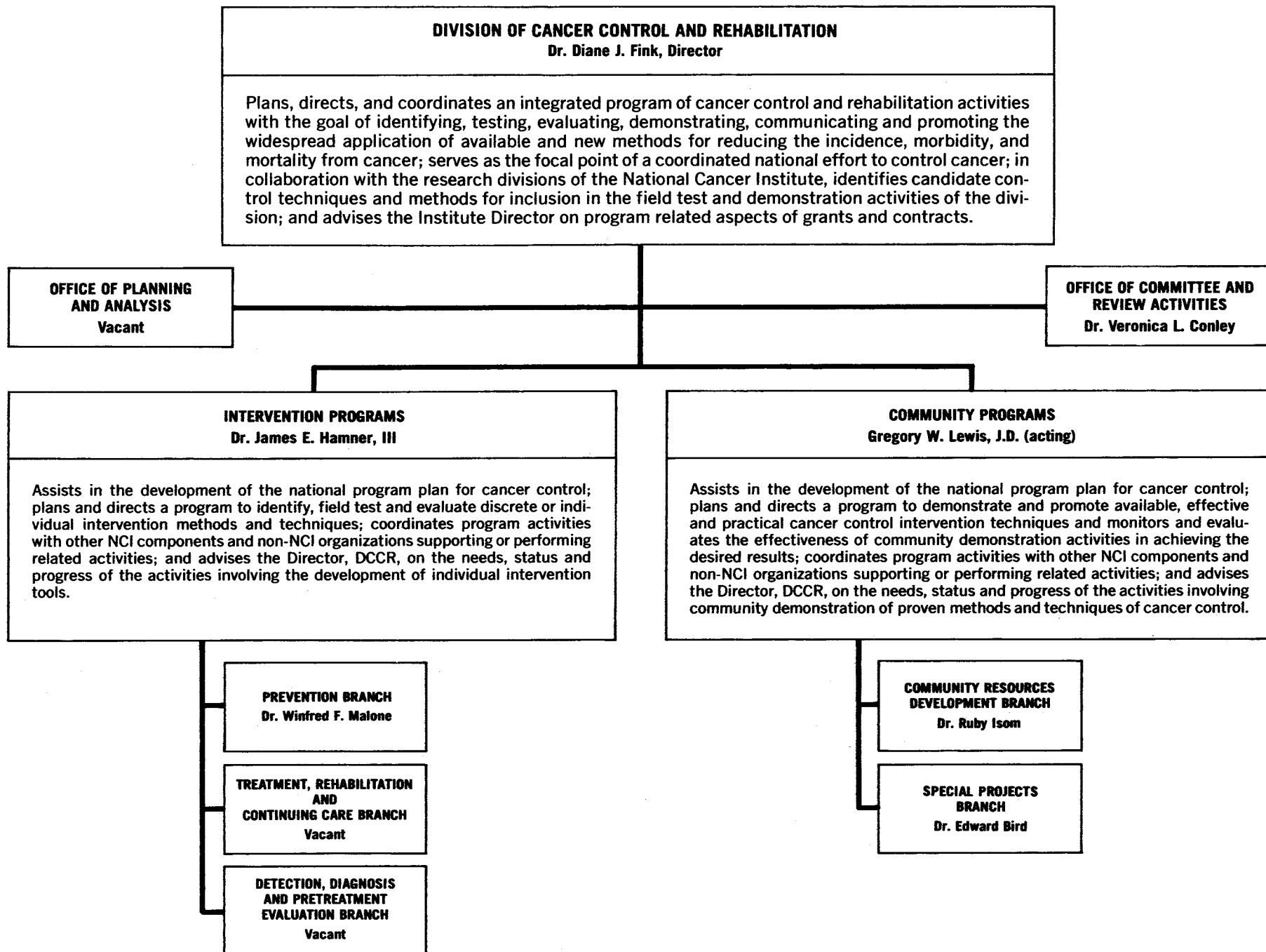
**DIVISION OF CANCER RESEARCH RESOURCES AND CENTERS**

**Dr. Thomas J. King, Director**  
**Dr. William A. Walter, Deputy Director**

Plans and directs the Institute's grant-supported activities; recommends Institute policies relating to the administration of grant programs; develops, reviews and coordinates plans and criteria for the implementation of NCI grants and evaluates effectiveness of grant-supported activities in achieving the Institute's missions; and advises the Institute Director, the National Cancer Advisory Board, and other advisory bodies of grant activities and developments.

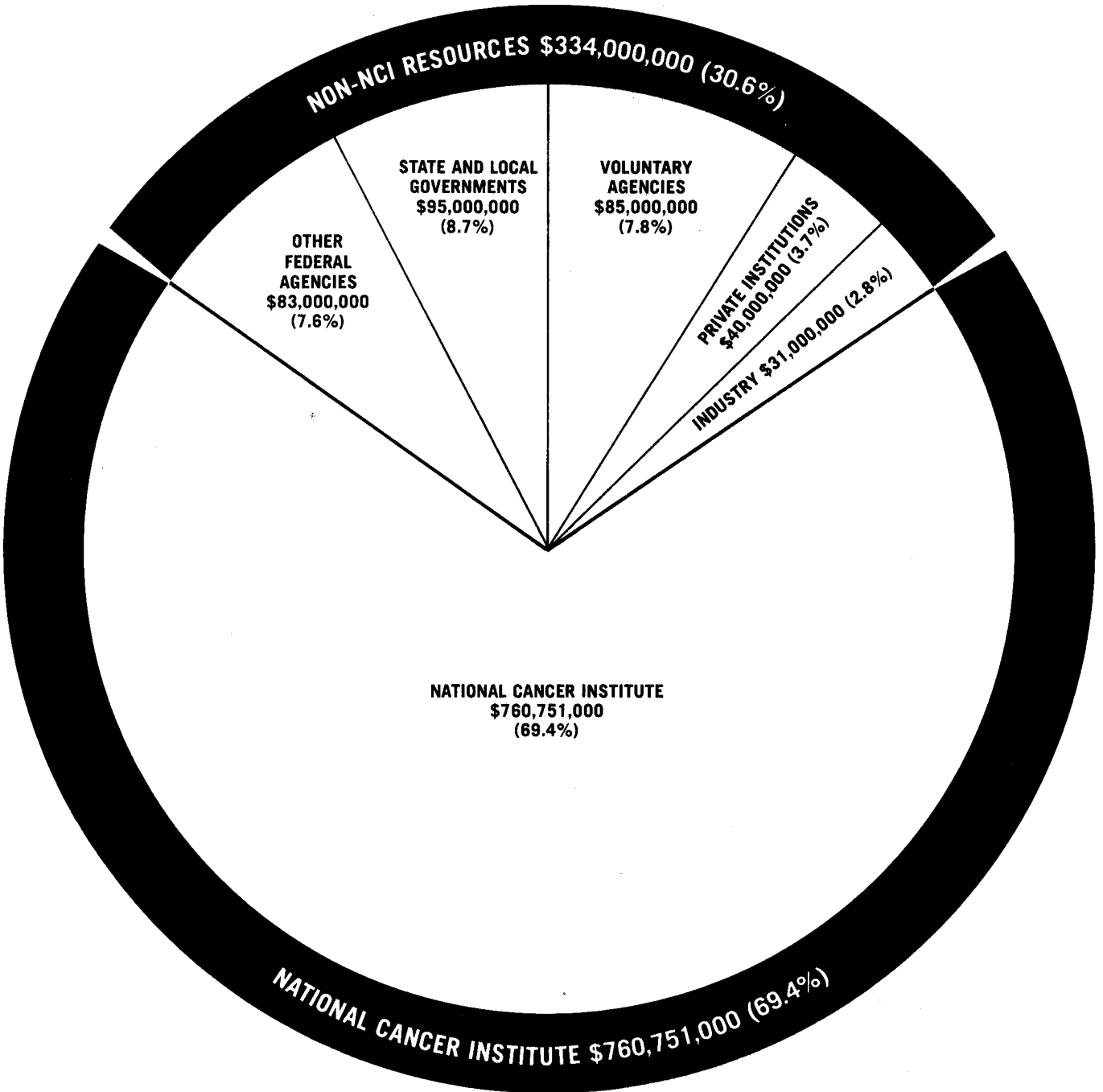






**TOTAL RESOURCES FOR THE NATIONAL  
CANCER PROGRAM — FISCAL YEAR 1976**

**TOTAL: \$1,094,751,000**



The NCI portion represents actual 1976 obligations. Non-NCI portions are estimated.

# NATIONAL CANCER PROGRAM STRATEGY

The National Cancer Program came into being as a result of the National Cancer Act of 1971 to conduct a nationally coordinated effort to achieve the conquest of cancer. The goal of the National Cancer Program (NCP) is to develop the means to significantly reduce the incidence of cancer in man and morbidity and mortality due to cancer, and ultimately to develop the means for eliminating all human cancers. Since achievement of this goal is a long term effort, the strategy of the program is to provide for a balanced program covering the entire spectrum of research, from basic through applied and developmental, by the implementation of laboratory, field, and clinical programs that are judged most likely to produce the information and needed technology that can be transferred to medical practice in preventing and treating cancer.

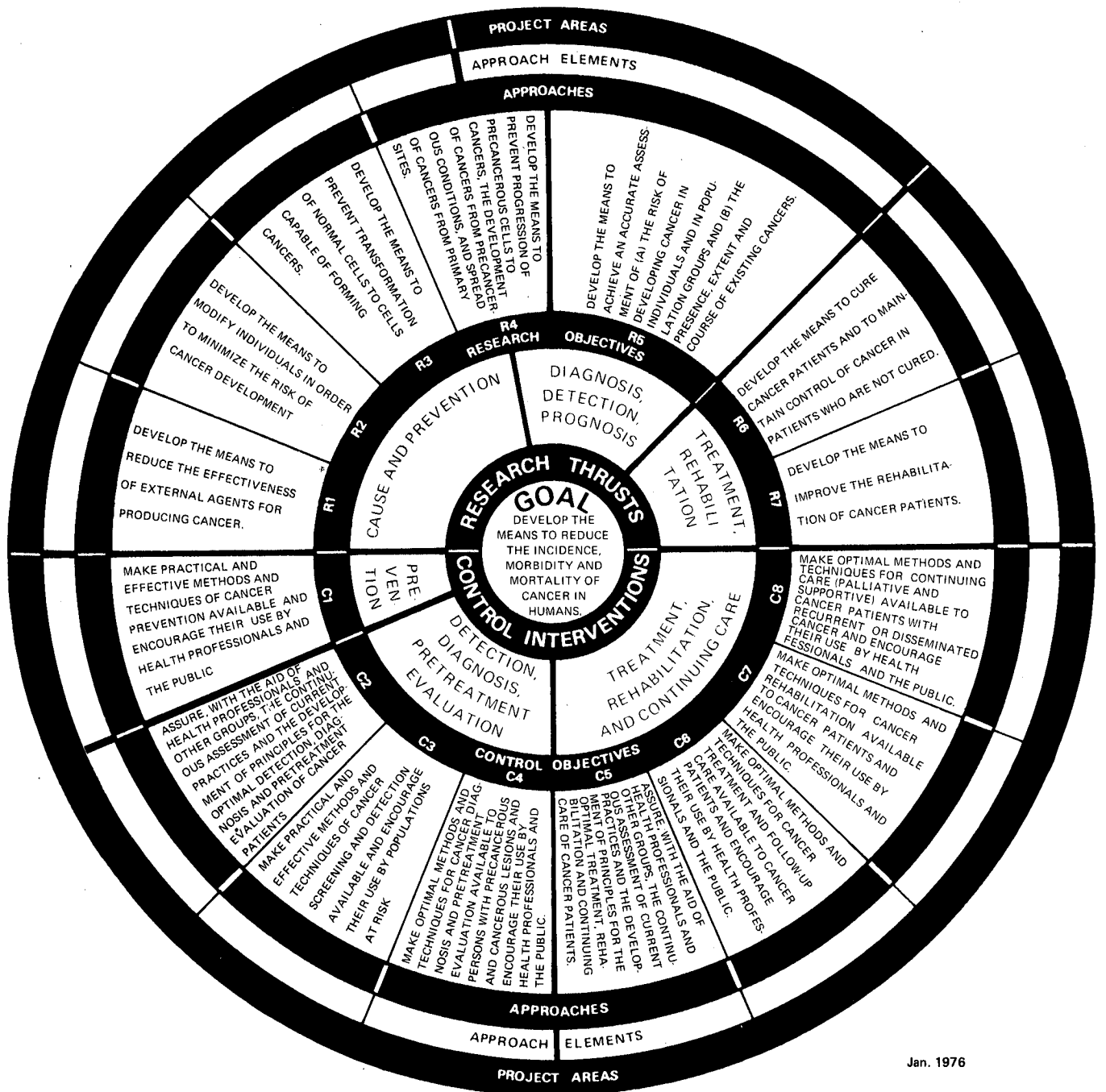
The NCP Strategic Plan which was released in 1973, was the first major output of the continuous planning process being carried out within the NCP. Research together with Cancer Control are the major scientific components of the program strategy. The associated scientific activities deemed necessary to achieve the research and cancer control objectives cover the full range of activities from determining the cause of cancer to rehabilitation and continuing care of patients.

To facilitate and provide continuity to the planning process, and to facilitate the analysis of large volumes of planning information, a hierarchical format is used to organize the content of the National Cancer Plan:

- National Cancer Program Goal
- Research Thrusts and Control interventions
- Research and Control objectives
- Research and Control approaches
- Research and Control approach elements
- Research and Control project areas

The first three levels are displayed on the facing figure.

The next three levels provide increasingly more detailed definition of the scientific content and activities encompassed within the program strategy.



Jan. 1976

## MORTALITY FOR THE FIVE LEADING CANCER SITES BY AGE GROUP AND SEX—1974

TOTAL		UNDER 15		15-34		35-54		55-74		75+	
MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
<b>Lung</b> 61,611	<b>Breast</b> 32,132	Leukemia 717	Leukemia 526	Leukemia 713	Breast 564	Lung 10,159	Breast 8,539	Lung 39,566	Breast 15,607	Lung 11,713	Colon & Rectum 10,878
<b>Colon &amp; Rectum</b> 23,868	<b>Colon &amp; Rectum</b> 25,474	Brain & CNS 426	Brain & CNS 359	Testis 434	Leukemia 498	Colon & Rectum 2,520	Lung 3,853	Colon & Rectum 12,803	Colon & Rectum 11,907	Prostate 10,506	Breast 7,221
<b>Prostate</b> 19,184	<b>Lung</b> 17,262	Lympho & Reticulo Sarcoma 103	Bone 70	Brain & CNS 423	Uterus 333	Pancreas 1,340	Uterus 2,629	Prostate 8,334	Lung 9,978	Colon & Rectum 8,316	Lung 3,324
<b>Pancreas</b> 10,208	<b>Uterus</b> 11,604	Bone 65	Kidney 45	Hodgkin's Disease 344	Brain & CNS 300	Brain & CNS 1,322	Colon & Rectum 2,520	Pancreas 6,051	Uterus 5,745	Stomach 3,103	Pancreas 3,217
<b>Stomach</b> 9,159	<b>Ovary</b> 10,335	Kidney 45	Connective Tissue 34	Skin 237	Hodgkin's Disease 253	Stomach 1,101	Ovary 2,482	Stomach 4,912	Ovary 5,608	Bladder 2,833	Uterus 2,893

SOURCE: National Center for Health Statistics, 1974.

## RELATIONSHIP OF CANCER TO LEADING CAUSES OF DEATH IN THE UNITED STATES—1974

RANK	CAUSE OF DEATH	NUMBER OF DEATHS	DEATH RATE PER 100,000 POPULATION	PERCENT OF TOTAL DEATHS
	<b>All Causes</b>	<b>1,934,388</b>	<b>915.1</b>	<b>100.0</b>
1	Diseases of Heart	738,171	349.2	38.2
2	<b>Cancer</b>	<b>360,472</b>	<b>170.5</b>	<b>18.6</b>
3	Stroke	207,424	98.1	10.7
4	Accidents	104,622	49.5	5.4
5	Influenza and Pneumonia	54,777	25.9	2.8
6	Diabetes Mellitus	37,329	17.7	1.9
7	Cirrhosis of Liver	33,319	15.8	1.7
8	Arteriosclerosis	32,239	15.3	1.7
9	Certain Diseases of Infancy	28,786	13.6	1.5
10	Suicide	25,683	12.1	1.3
11	Homicide	21,465	10.2	1.1
12	Emphysema	19,907	9.4	1.0
13	Congenital Anomalies	13,526	6.4	0.7
14	Nephritis and Nephrosis	8,068	3.8	0.4
15	Ulcers	7,069	3.3	0.4
	Other and Ill-Defined	241,531	114.3	12.5

SOURCE: National Center for Health Statistics, 1974.

# ESTIMATED CANCER DEATHS AND NEW CASES BY SEX AND SITE—1977<sup>1</sup>

SITE	ESTIMATED DEATHS			ESTIMATED NEW CASES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
All Sites .....	385,000	210,500	174,500	690,000 <sup>1</sup>	347,000 <sup>1</sup>	343,000 <sup>1</sup>
Buccal Cavity & Pharynx (Oral) .....	8,450	6,000	2,450	23,900	17,000	6,900
Lip .....	225	200	25	4,100	3,800	300
Tongue .....	2,000	1,400	600	4,500	3,100	1,400
Salivary Gland .....	650	400	250			
Floor of Mouth .....	525	400	125	8,700	5,200	3,500
Other & Unspecified Mouth .....	1,250	800	450			
Pharynx .....	3,800	2,800	1,000	6,600	4,900	1,700
Digestive Organs .....	104,700	55,200	49,500	171,000	89,300	82,100
Esophagus .....	6,900	5,000	1,900	7,600	5,600	2,000
Stomach .....	14,600	8,600	6,000	23,000	14,000	9,000
Small Intestine .....	700	350	350	2,200	1,200	1,000
Colon .....	41,200	19,200	22,000	70,000	32,000	38,000
Rectum .....	10,100	5,600	4,500	31,000	17,000	14,000
Liver and Biliary Passages .....	9,800	4,800	5,000	11,800	5,800	6,000
Pancreas .....	19,800	10,900	8,900	21,800	12,000	9,800
Other & Unspecified Digestive .....	1,600	750	850	4,000	1,700	2,300
Respiratory System .....	93,750	72,100	21,650	109,700	85,700	24,000
Larynx .....	3,350	2,900	450	9,200	8,100	1,100
Lung .....	89,000	68,300	20,700	98,000	76,000	22,000
Other & Unspecified Respiratory .....	1,400	900	500	2,500	1,600	900
Bone, Tissue and Skin .....	8,850	5,050	3,800	15,900	8,000	7,900
Bone .....	1,900	1,100	800	1,900	1,100	800
Connective Tissue .....	1,650	850	800	4,500	2,400	2,100
Skin .....	5,300 <sup>4</sup>	3,100	2,200	9,500 <sup>2</sup>	4,500 <sup>2</sup>	5,000 <sup>2</sup>
Breast .....	34,000	300	33,700	89,700	700	89,000
Genital Organs .....	43,900	21,200	22,700	129,900	61,700	68,200
Cervix, Invasive—Uterus .....	7,600	—	7,600	20,000 <sup>3</sup>	—	20,000 <sup>3</sup>
Corpus Uteri—Uterus .....	3,300	—	3,300	27,000	—	27,000
Ovary .....	10,800	—	10,800	17,000	—	17,000
Other Female Genital .....	1,000	—	1,000	4,200	—	4,200
Prostate .....	20,100	20,100	—	57,000	57,000	—
Other Male Genital .....	1,100	1,100	—	4,700	4,700	—
Urinary Organs .....	17,100	11,400	5,700	44,900	31,300	13,600
Bladder .....	9,800	6,800	3,000	29,900	22,000	7,900
Kidney & Other Urinary .....	7,300	4,600	2,700	15,000	9,300	5,700
Eye .....	400	200	200	1,700	800	900
Brain & Central Nervous System .....	8,800	4,900	3,900	10,900	5,900	5,000
Endocrine Glands .....	1,650	650	1,000	9,200	2,700	6,500
Thyroid .....	1,150	350	800	8,200	2,200	6,000
Other Endocrine .....	500	300	200	1,000	500	500
Leukemia .....	15,000	8,400	6,600	21,300	12,000	9,300
Multiple Myeloma .....	5,600	2,900	2,700	8,200	4,200	4,000
Lymphomas .....	15,700	8,600	7,100	30,100	16,300	13,800
Lymphosarcoma & Reticulosarcoma .....	7,200	3,800	3,400	10,600	5,700	4,900
Hodgkin's Disease .....	2,900	1,700	1,200	7,400	4,300	3,100
Other Lymphomas .....	5,600	3,100	2,500	3,900	2,100	1,800
All Other & Unspecified Sites .....	27,100	13,600	13,500	31,400	15,600	15,800

NOTE: The estimates of new cancer cases are offered as a rough guide and should not be regarded as definitive. Especially note that year-to-year changes may only represent improvements in the basic data.

<sup>1</sup> Carcinoma-in-situ of the uterine cervix and non-melanoma skin cancer not included in totals.

<sup>2</sup> Melanoma only. <sup>3</sup> Invasive cancer only. <sup>4</sup> Melanoma 3700, other skin 1600.

Incidence estimates are based on rates from NCI Third National Cancer Survey, 1969-71.

# RESEARCH POSITIONS AT THE NATIONAL CANCER INSTITUTE<sup>1</sup>

The National Cancer Institute recognizes that one of the most valuable resources to be drawn upon in the fight against cancer is the wealth of scientific talent available in the U.S. and around the world. In an effort to attract and maintain the highest quality scientific staff, two personnel systems are used: the U.S. Civil Service System and the PHS Commissioned Corps. In addition, the Staff Fellowship Program and the NIH Visiting Program have been designed to meet special needs. Special programs are also available for those who qualify.

POSITION	ELIGIBILITY	ANNUAL SALARY	MECHANISM OF ENTRY
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## I. CIVIL SERVICE

A. Civil Service (tenured)	Appropriate advanced education, experience and knowledge needed by NCI to conduct its programs	Minimum starting: Ph.D.—\$24,308 Physicians—\$31,598 Maximum: \$39,600	Civil Service Commission. Contact Director or Laboratory Chief in area of interest or the NCI Personnel Office.
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## II. SPECIAL APPOINTMENT OF EXPERTS AND CONSULTANTS

A. Special Appointment of Experts and Consultants (non-tenured appointment which can be extended up to 4 years)	Applicants shall possess outstanding experience and ability such as to justify recognition as authorities in their particular fields of activity.	Equivalent to the salary range of GS-13 through GS-18 Maximum: \$39,600	Recommendation by Division Directors. Final approval rests with the Director, NCI.
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## III. USPHS COMMISSIONED CORPS

Associate Training Program including CORD residency deferment program (limited tenure, maximum 3 years) <sup>2</sup>			
A. Clinical Associate	Graduates of Medical Schools including Internship	Pay and allowances of Senior Assistant Surgeon or Surgeon of PHS Commissioned Corps	Apply to Clinical and Professional Education Section, Clinical Center, National Institutes of Health
B. Research Associate	Graduates of Medical Schools including Internship	Pay and allowances of Senior Assistant Surgeon or Surgeon of PHS Commissioned Corps	Apply to Clinical and Professional Education Section, Clinical Center, National Institutes of Health
C. Staff Associate	Graduates of medical and dental schools, or other doctoral qualifications	Pay and allowances of Senior Assistant Surgeon of PHS Commissioned Corps	Apply to Clinical and Professional Education Section, Clinical Center, National Institutes of Health
D. Senior COSTEP Program (Medical)	Senior Medical Students	Pay and Allowances of Junior Asst. Health Service Officer plus payment of tuition, fees and other necessary expenses. Candidates incur 2 year active duty obligation with PHS Commissioned Corps.	Apply to: Commissioned Personnel Operations Division, Parklawn Building, Room 4-35, 5600 Fishers Lane, Rockville, Maryland 20857

**IV. VISITING PROGRAM (limited tenure)<sup>3</sup>**

POSITION	ELIGIBILITY	ANNUAL SALARY	MECHANISM OF ENTRY
<b>A. Visiting Fellow</b> (maximum 3 years)	1-3 years postdoctoral education	Entrance stipend \$10,000-10,800  No dependency allowance provided	Contact Director or Laboratory Chief in area of interest.
<b>B. Visiting Associates</b> (1 year with renewals to end of project)	3+ years postdoctoral education with appropriate knowledge needed by NCI	\$13,482-21,133	Contact Director or Laboratory Chief in area of interest.
<b>C. Visiting Scientist</b> (duration of project)	6+ years postdoctoral education with appropriate unusual experience and knowledge needed	\$19,386-39,600	Contact Director or Laboratory Chief in area of interest.

**V. STAFF FELLOWSHIPS**

<b>A. Staff Fellowships</b> (maximum 5 years)	Physician or other doctoral degree equivalent awarded within last 5 years, U.S. citizen or non-citizen eligible for naturalization within 4 years.	Staff Fellows Physicians \$19,740-24,986 Other Doctorates \$15,120-23,335 Senior Staff Fellows Physicians \$22,365-32,801 Other Doctorates \$19,740-26,527	Contact Director or Laboratory Chief in area of interest or the NCI Person- nel Office.
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**VI. SPECIAL PROGRAMS**

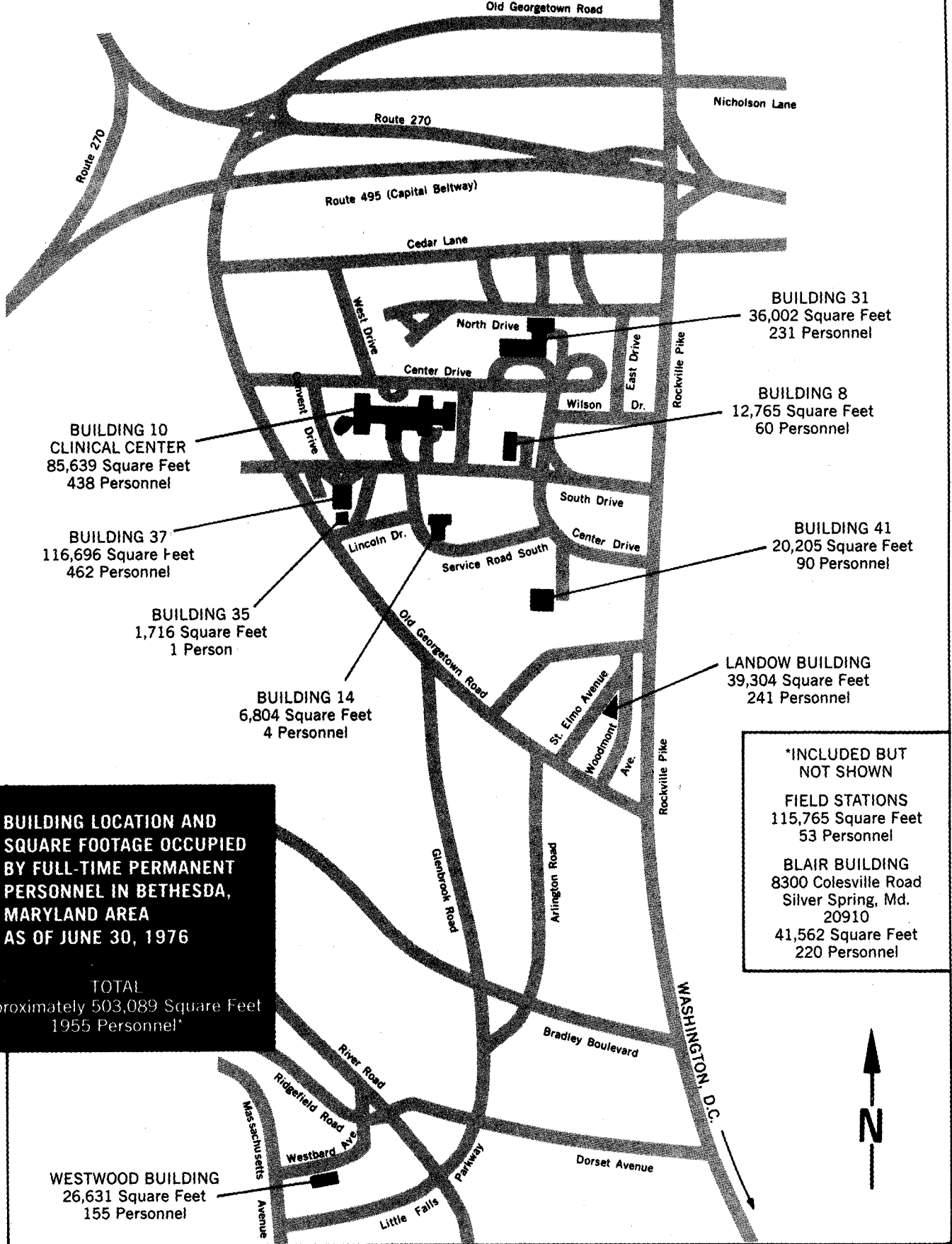
<b>A. Research Fellow</b> spon- sored by organization other than NIH, PHS	Determined by sponsoring organization.	Established by spon- soring organization	Contact Director or Laboratory Chief in area of interest; also apply to sponsoring agency, e.g. American Cancer Society, Eleanor Roosevelt Cancer Foundation, Leukemia Society of America, Inc., etc.
<b>B. COSTEP Program</b> (operates year-round) Maximum 120 days per 12 month period	U.S. citizen with 2 years of bac- calaureate program or more in health-related field. May be enrolled in doctoral program or professional school. Physical requirements of PHS Commissioned Corps. Plans to return to college.	Pay and allowance of a Commissioned Officer, Junior Asst. Grade	Apply to PHS Commissioned Corps, COSTEP SECTION, Parklawn Building, 5600 Fishers Lane, Rock- ville, Maryland 20852.
<b>C. Civil Service Summer Employment Program</b>	U.S. citizen, 18 years of age or older (16 if high school graduate)	Pay equivalent to GS-1 through GS-4 depending on education and ex- perience	Civil Service Summer Employment Examination
	College graduates, graduate students, faculty members, equivalent experience.	Pay equivalent to GS-5 through GS-12	Apply to NIH Personnel Staffing Branch.
<b>D. Fogarty International Scholars</b>	International reputation, produc- tivity, demonstrated ability in biomedical field	\$30,000 per annum	Recommendation to Fogarty Center by Institute Director or Scientist. Contact Director in area of interest.

<sup>1</sup>Does not necessarily indicate that positions are currently available at the National Cancer Institute.

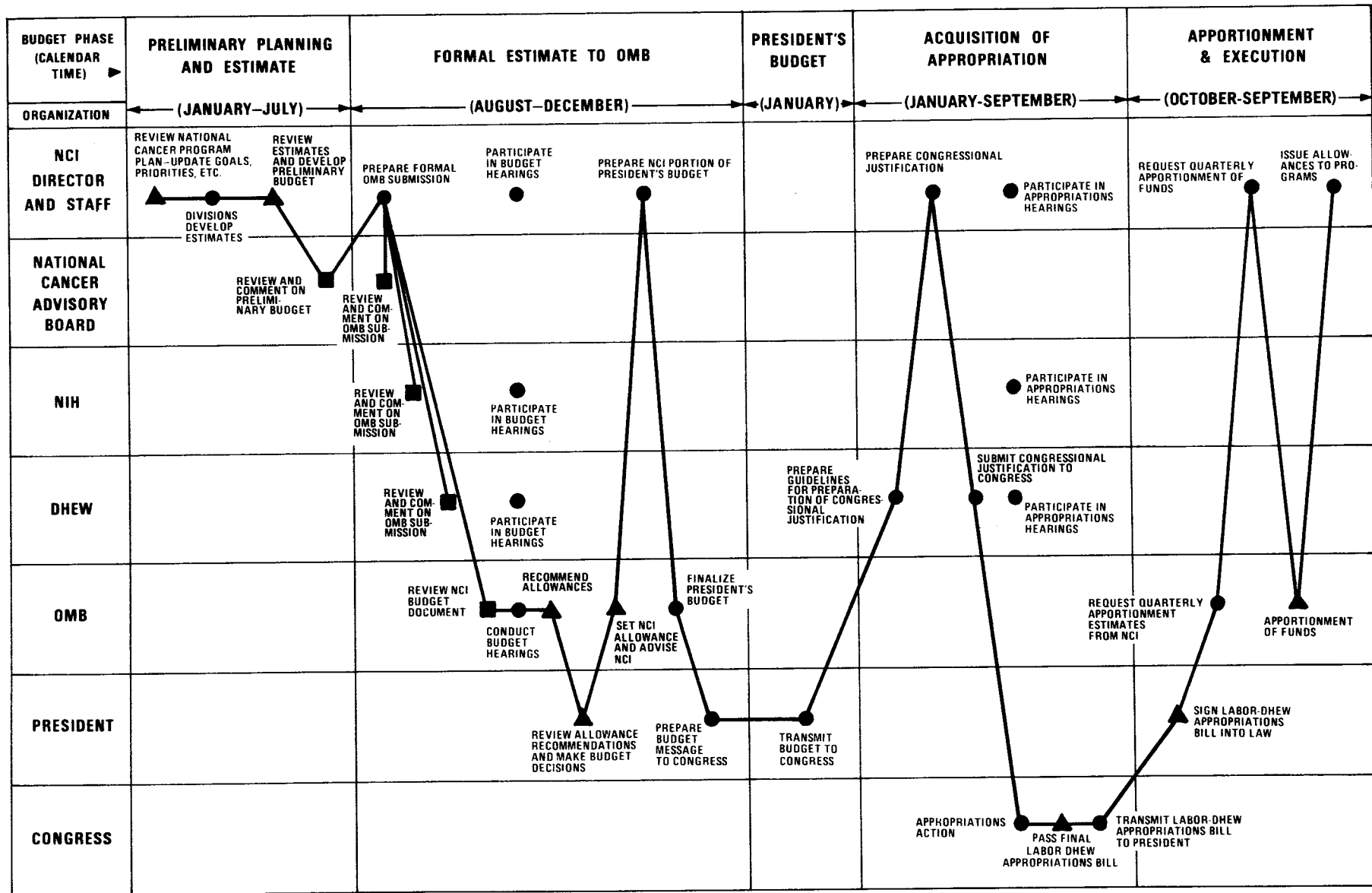
<sup>2</sup>Appointments are made upon intellectual attainment and demonstrated research interest and ability matched to NCI's needs.

<sup>3</sup>Under most circumstances, the various visiting programs are limited to non-citizens.





# NCI BUDGET ADMINISTRATION PROCESS — UNDER CANCER ACT OF 1971

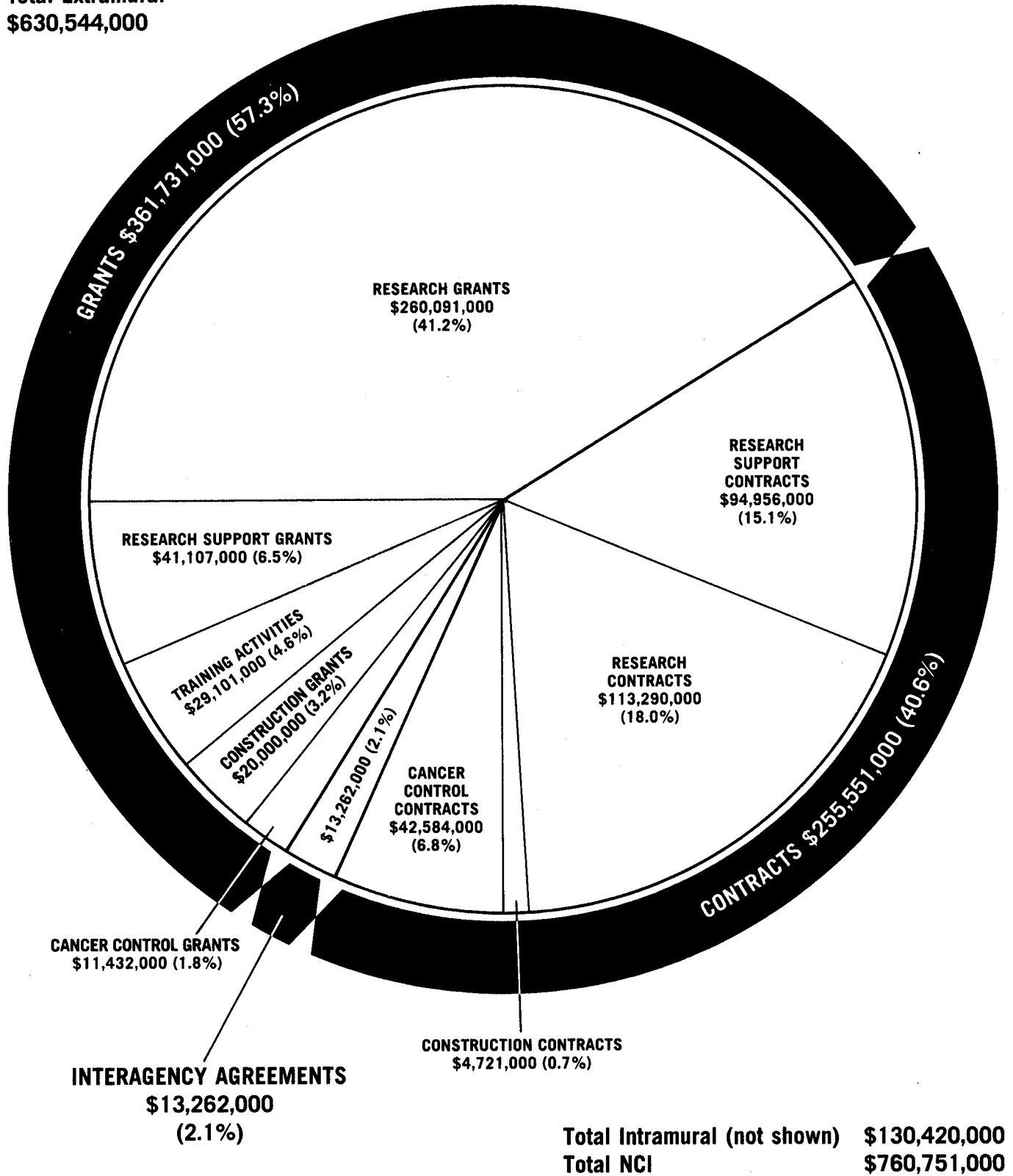


NOTE: SIMULTANEOUS ACTIVITIES BY MORE THAN ONE ORGANIZATION INDICATE COOPERATIVE EFFORTS

LEGEND: ● OPERATION ■ REVIEW ▲ DECISION

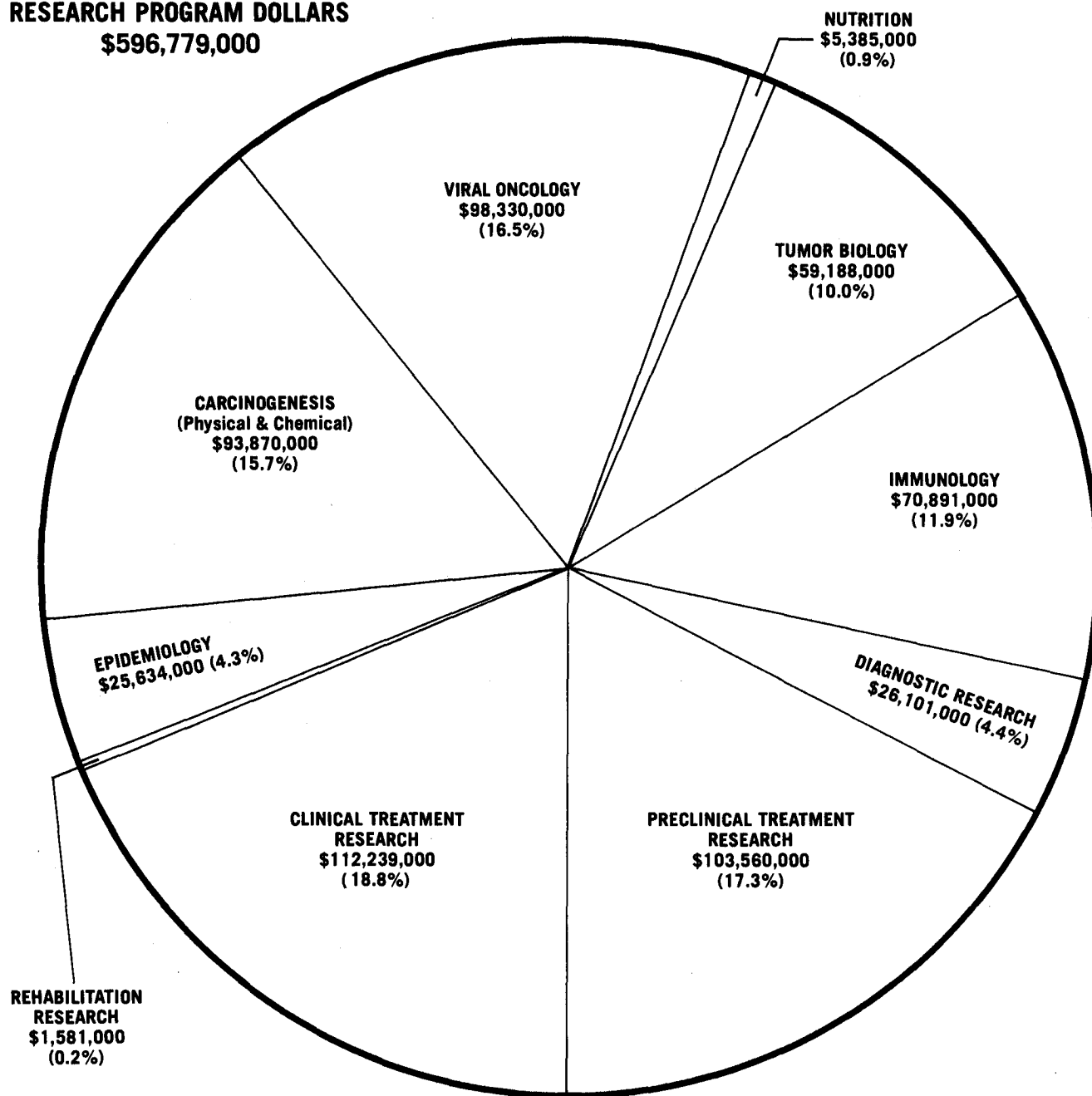
# NCI EXTRAMURAL FUNDS—FISCAL YEAR 1976

Total Extramural  
\$630,544,000



# NCI RESEARCH PROGRAMS — FISCAL YEAR 1976

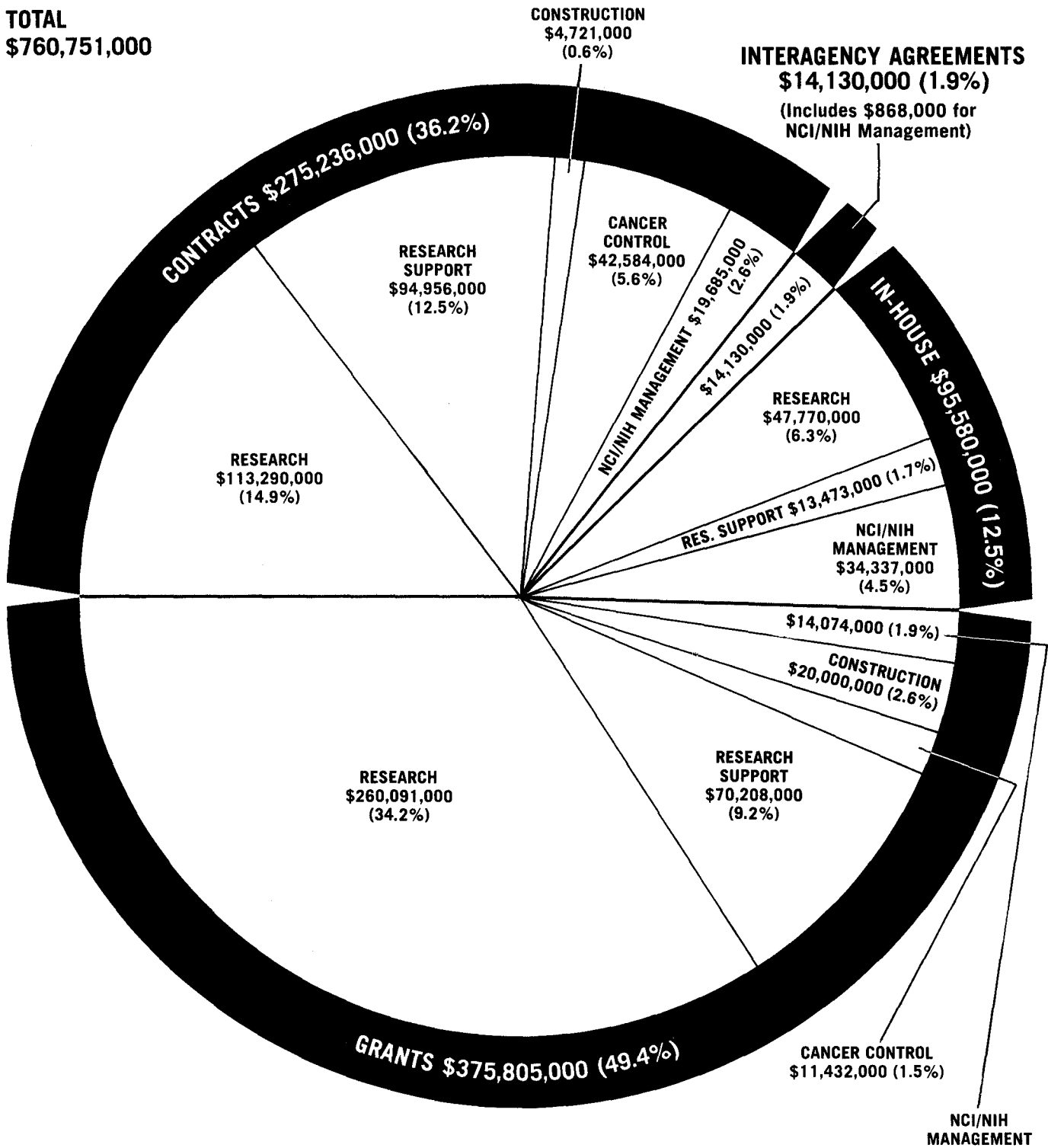
**TOTAL  
RESEARCH PROGRAM DOLLARS  
\$596,779,000**



<b>Research Programs</b>	<b>\$596,779,000</b>
<b>Resource Development:</b>	
Cancer Centers Support	51,937,000
Research Manpower Development	30,311,000
Construction	25,496,000
<b>Cancer Control</b>	<b>56,228,000</b>
<b>Total NCI</b>	<b>\$760,751,000</b>

# TOTAL NCI DOLLARS BY MECHANISMS – FISCAL YEAR 1976

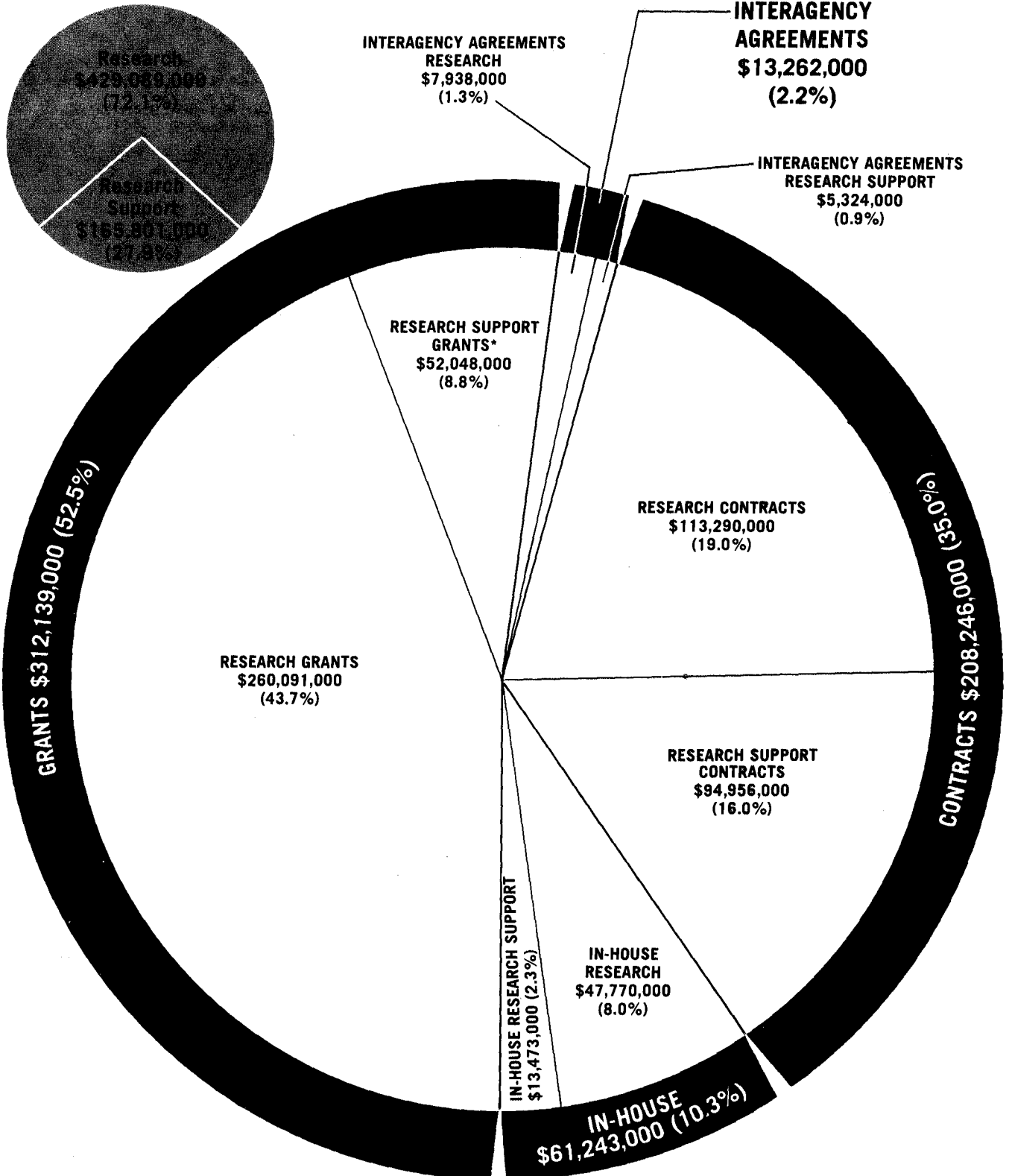
**TOTAL**  
**\$760,751,000**



NOTE: Management includes NCI Management as well as NIH Management Fund.

# COMPARISON OF RESEARCH/RESEARCH SUPPORT – FISCAL YEAR 1976

TOTAL: \$594,890,000



NOTE: Excludes Fellowships and Training Grants, Construction, Cancer Control and NCI/NIH Management Fund.  
 \*Research Support Grants include the Clinical Education Program and the Research Career Program.

# NATIONAL CANCER INSTITUTE 1976 BUDGET BY ORGANIZATION

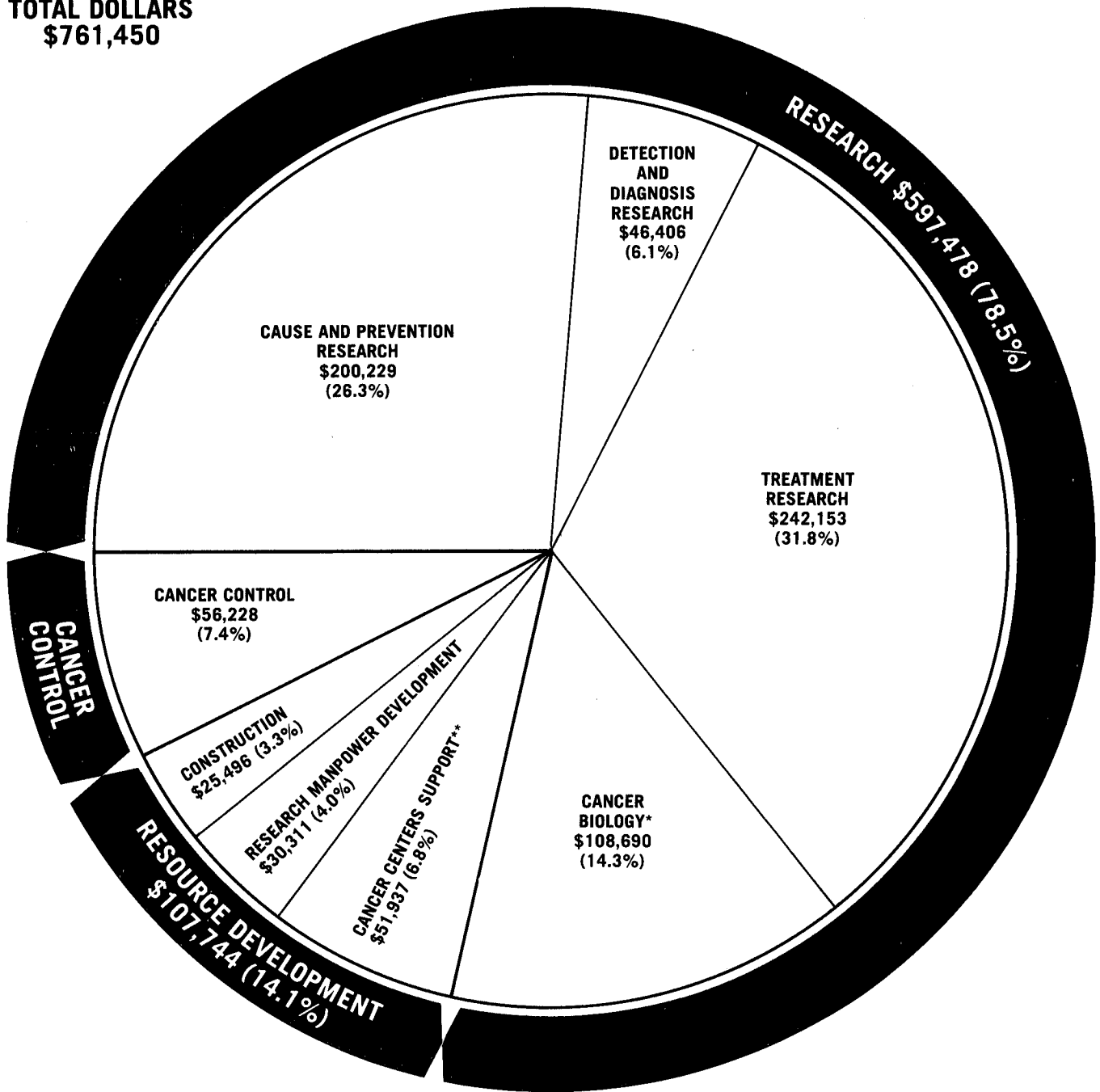
(THOUSANDS OF DOLLARS)

	AMOUNT	ACTIVITY	PERCENT OF TOTAL	
<b>DIVISION OF CANCER RESEARCH RESOURCES AND CENTERS</b>				
\$331,967	\$129,021	Regular Program	17.0	43.6%
	87,304	Program Projects	11.5	
	3,836	Radiation Development	.5	
	14,090	Task Forces (Organ Sites)	1.9	
	38,304	Core Support	5.0	
	2,803	Planning Grants	.4	
	7,698	Clinical Education Program	1.0	
	3,243	Career Program	.4	
	13,401	Fellowships	1.7	
	4,759	Training Grants	.6	
20,000	Construction	2.6		
7,508	Review and Approval	1.0		
<b>DIVISION OF CANCER BIOLOGY AND DIAGNOSIS</b>				
\$56,168	46,746	Laboratory and Clinical Research	6.2	7.4%
	9,422	Task Forces	1.2	
<b>DIVISION OF CANCER TREATMENT</b>				
\$119,196	118,501	Cancer Therapy	15.6	15.7%
	695	Task Forces	.1	
<b>DIVISION OF CANCER CAUSE AND PREVENTION</b>				
\$137,116	12,964	Office of the Division Director	1.7	18.0%
	62,033	Virus Cancer Program	8.2	
	44,400	Carcinogenesis	5.8	
	12,337	Field Studies and Statistics	1.6	
	5,382	Task Forces	.7	
<b>DIVISION OF CANCER CONTROL AND REHABILITATION</b>				
\$56,471	56,471	Cancer Control	7.4	7.4%
<b>OFFICE OF THE DIRECTOR</b>				
\$59,833	26,768	Program Direction and Supporting Services	3.6	7.9%
	6,250	Basic Science Program—FCRC	.8	
	4,721	Construction Contracts	.6	
	22,094	Management Fund	2.9	
	<b>\$760,751</b>	<b>TOTAL</b>	<b>100.0</b>	

**NCI PROGRAM STRUCTURE – FISCAL YEAR 1976**

(THOUSANDS OF DOLLARS)

**TOTAL DOLLARS  
\$761,450**



NOTE: Comparable obligations – Includes Standard Level User Charge (SLUC).

\*Includes research which has application to all the research thrusts, i.e. cause and prevention research, detection and diagnosis research and treatment research.

\*\*Planning and core support of centers.



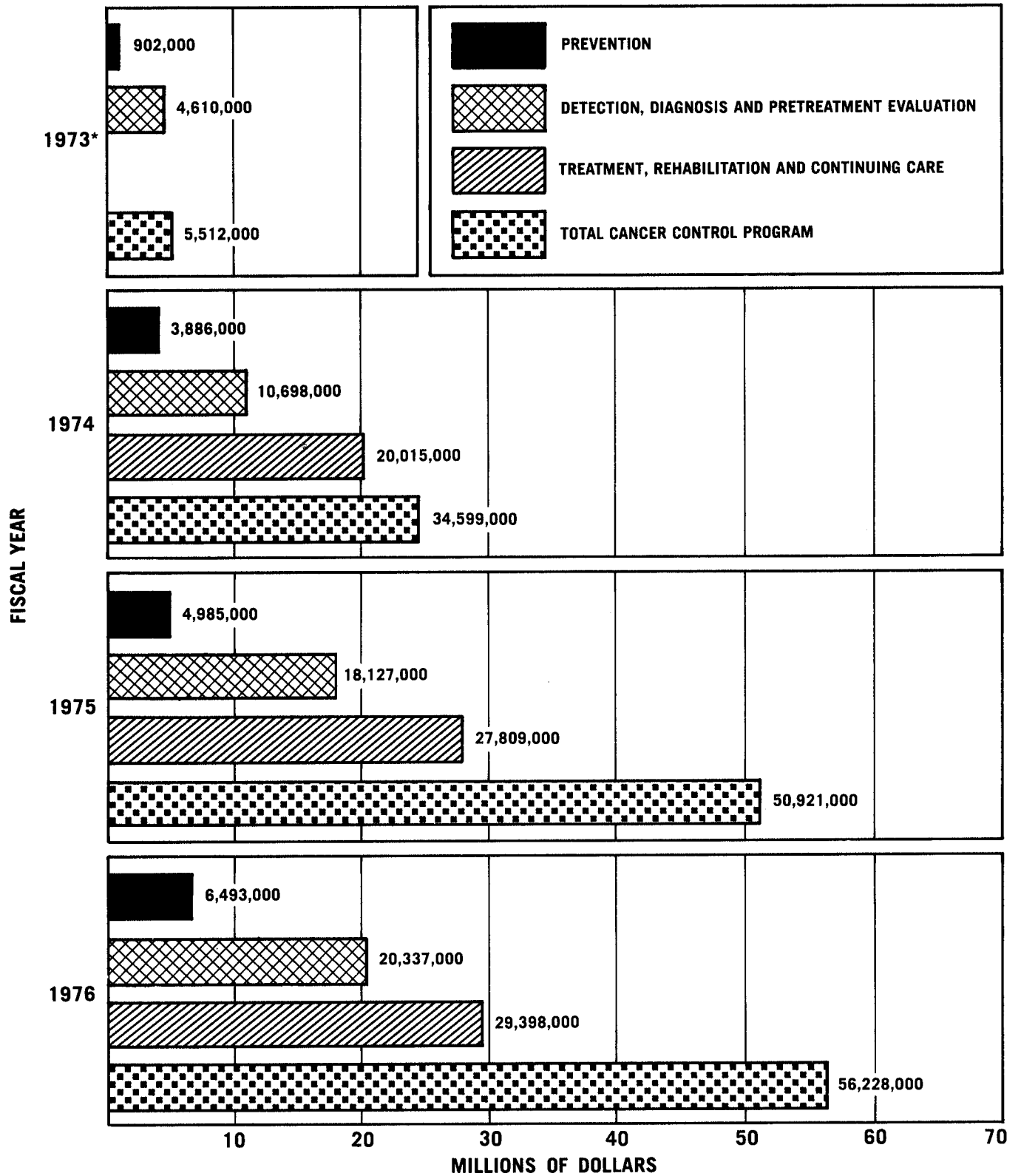
# NATIONAL CANCER INSTITUTE 1978 CONGRESSIONAL JUSTIFICATION

(IN THOUSANDS  
OF DOLLARS)

	1976 (ACTUAL)	1977 (ESTIMATE)	1978 (ESTIMATE)
<b>GROUP I – INVESTIGATOR INITIATED</b>			
Regular Research Grants .....	\$129,021	\$136,880	\$137,801
Clinical Cooperative Groups .....	23,263	25,420	28,000
Program Projects .....	77,805	80,653	81,569
Radiation Development Program .....	3,836	4,060	4,000
Clinical Education Program .....	7,698	8,996	9,000
Research Career Program .....	3,243	3,081	3,000
Fellowships .....	13,401	18,236	17,886
Training Grants .....	4,759	1,764	277
Task Forces .....	14,090	14,300	14,300
Core Support .....	47,803	57,000	57,000
<b>SUBTOTAL</b>	<b>324,919</b>	<b>350,390</b>	<b>352,833</b>
<b>GROUP II – CO-INITIATED</b>			
Cancer Research Emphasis Grants (CREG) .....	2,577	9,471	10,200
Research Contracts .....	113,290	116,168	111,527
<b>SUBTOTAL</b>	<b>115,867</b>	<b>125,639</b>	<b>121,727</b>
<b>GROUP III – NCI/NCP INITIATED</b>			
Research Support Contracts .....	94,743	88,523	91,748
Interagency Agreements .....	13,262	18,123	18,016
<b>SUBTOTAL</b>	<b>108,005</b>	<b>106,646</b>	<b>109,764</b>
<b>GROUP IV – OTHER RESOURCES</b>			
Planning Grants .....	2,803	900	1,000
Construction Grants .....	20,000	16,000	9,000
Construction Contracts .....	4,721	6,001	3,000
<b>SUBTOTAL</b>	<b>27,524</b>	<b>22,901</b>	<b>13,000</b>
In-House Research .....	61,243	68,418	72,437
Management & Support .....	69,876	84,490	92,242
(NIH Management Fund) .....	(23,037)	(26,940)	(30,672)
Cancer Control (Grants & Contracts) .....	54,016	56,453	56,933
<b>SUBTOTAL</b>	<b>185,135</b>	<b>209,361</b>	<b>221,612</b>
<b>TOTAL NCI</b>	<b>\$761,450</b>	<b>\$814,937</b>	<b>\$818,936</b>

NOTE: Comparable obligations – Includes Standard Level User Charge (SLUC).

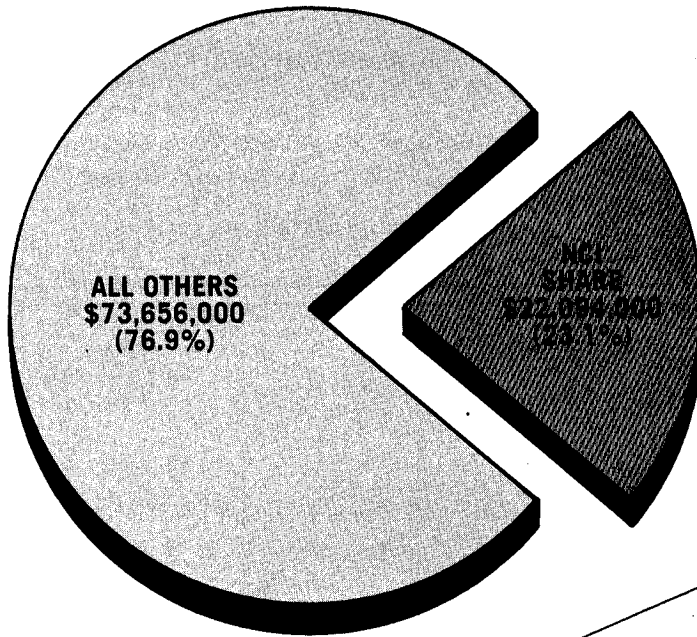
# CANCER CONTROL PROGRAM OBLIGATIONS—FISCAL YEARS 1973-1976



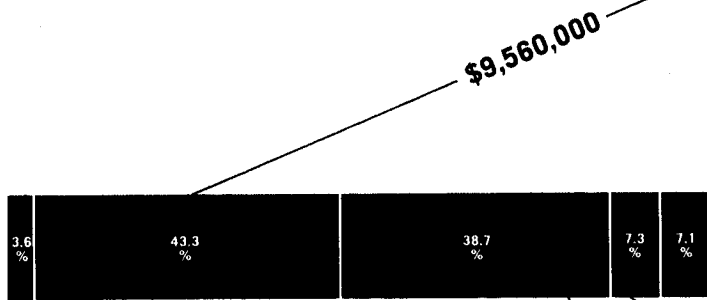
\*No Treatment, Rehabilitation and Continuing Care in FY 1973.

# REIMBURSEMENT TO NIH MANAGEMENT FUND FISCAL YEAR 1976

**TOTAL NIH SERVICES  
\$95,750,000**



CLINICAL CENTER
Employee Health Services
Service Functions
Social Work
Professional Services
Consultative Services
Admissions and Follow-up
Anesthesiology
Diagnostic X-Ray
Clinical Pathology
Blood Bank
Rehabilitation Service
Pharmacy Service
Medical Records
TV Engineering
Nursing Service
Patient Nutrition Service
Environmental Sanitation Control
Laundry
Radiation Safety



**DISTRIBUTION OF NCI SERVICES  
\$22,094,000**

DIVISION OF RESEARCH GRANTS
Initial Scientific Review of Applications
Assignment of Research Grant Applications Among Institutes

DIVISION OF COMPUTER RESEARCH & TECHNOLOGY
Research & Development Program in Which Concepts & Methods of Computer Science Are Applied to Biomedical Problems (Services Are Rendered to the NIH Communities on a Fee-For-Service Basis).

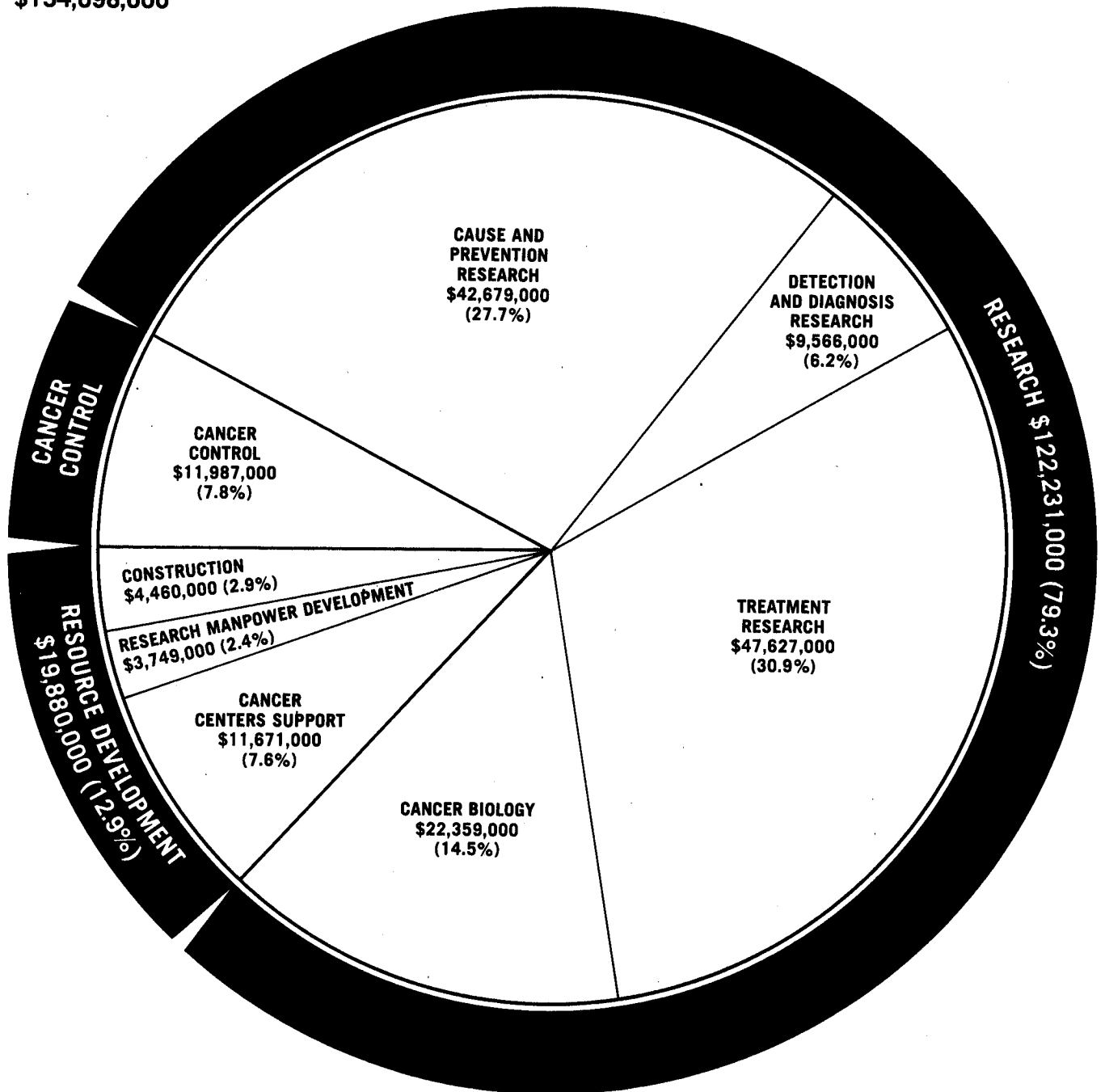
OFFICE OF ADMINISTRATION
Division of Administrative Services
Division of Contracts and Grants
Division of Engineering Services
Division of Financial Management
Division of Management Policy
Division of Management Survey and Review
Division of Personnel Management

DIVISION OF RESEARCH SERVICES
Laboratory Aids
Animal Hospital
Media Preparation
Glassware Preparation
Comparative Pathology
Germ-free Animal Production
Biomedical Engineering and Instrumentation
Library Services
Medical Arts
Environmental Services

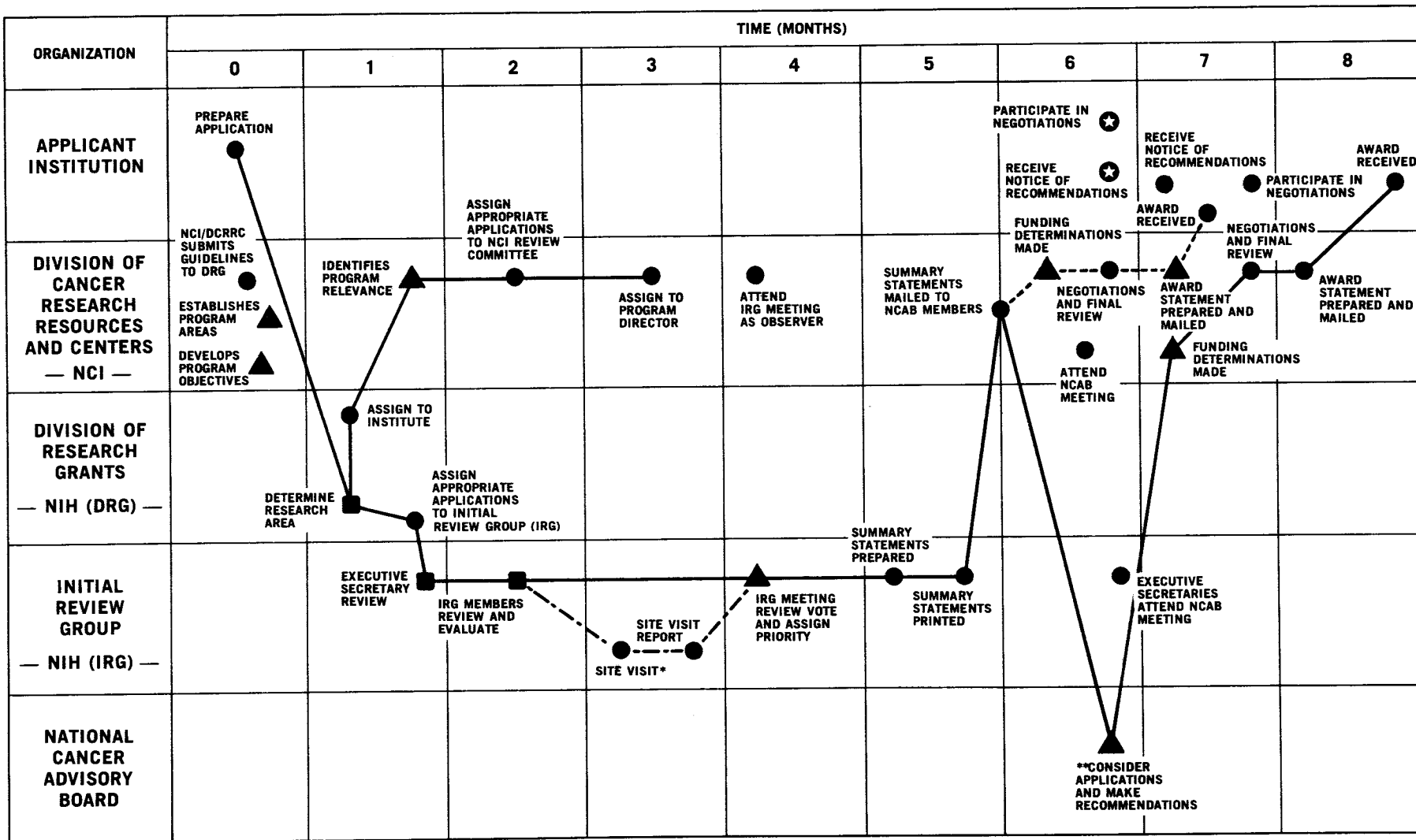
The Management Fund provides for the financing of certain common research supporting services and administrative activities which are required in the operating of NIH.

**TRANSITION QUARTER OBLIGATIONS**  
(July 1, 1976 through September 30, 1976)

**TOTAL**  
**\$154,098,000**



# NCI GRANTS ADMINISTRATION PROCESS — UNDER CANCER ACT OF 1971



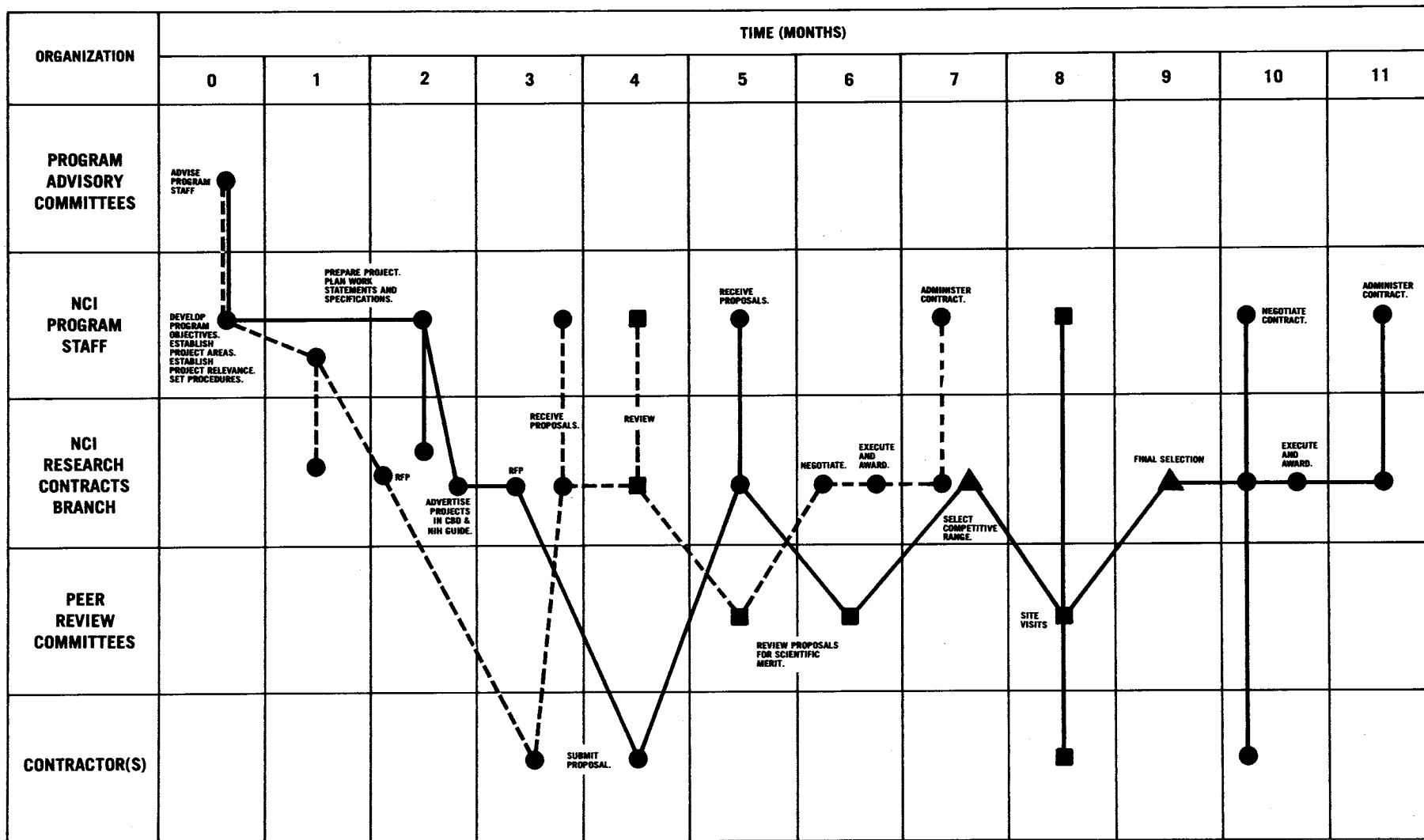
**LEGEND:**

- OPERATIONS
- REVIEW
- ▲ DECISION

- NORMAL ADMINISTRATIVE FLOW
- - - - - APPLICATIONS LESS THAN \$35,000 TOTAL COSTS (TIME SAVING 3 TO 4 WEEKS)
- ☆
- \* SITE VISITS REQUIRED FOR ONLY ABOUT 10% OF APPLICATIONS
- \*\* NCAB MEETS NOT LESS THAN 4 TIMES PER YEAR

NOTE: SIMULTANEOUS ACTIVITIES BY MORE THAN ONE ORGANIZATION INDICATE COOPERATIVE EFFORTS

# NCI CONTRACTS ADMINISTRATION PROCESS — UNDER CANCER ACT OF 1971



NOTE: SIMULTANEOUS ACTIVITIES BY MORE THAN ONE ORGANIZATION INDICATE COOPERATIVE EFFORTS.

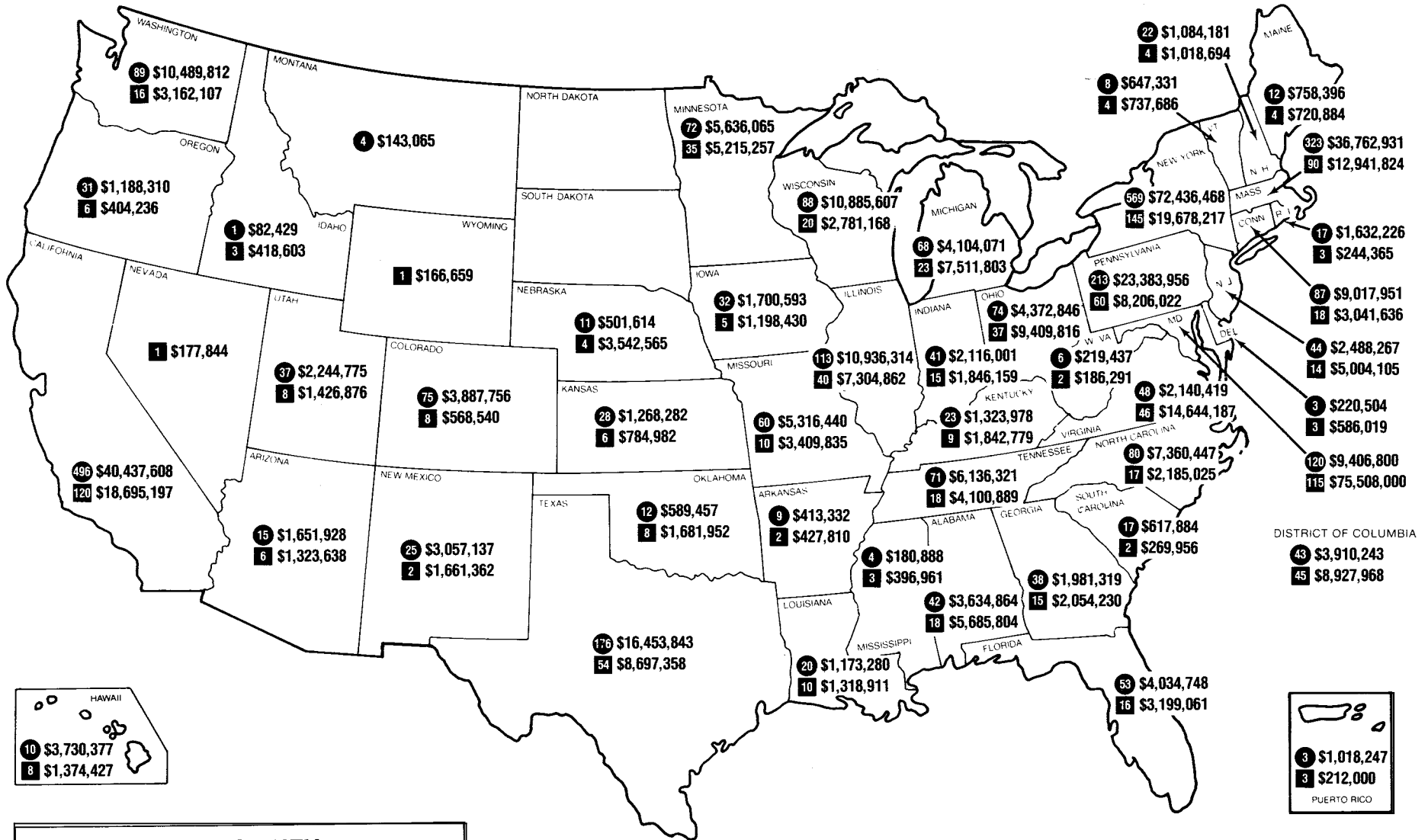
**LEGEND:**

- OPERATION
- REVIEW
- ▲ DECISION

- NORMAL FLOW
- - - NON-COMPETITIVE CONTRACTS

\* AD HOC COMMITTEES MAY BE USED — INCLUDES OUTSIDE SCIENTISTS.

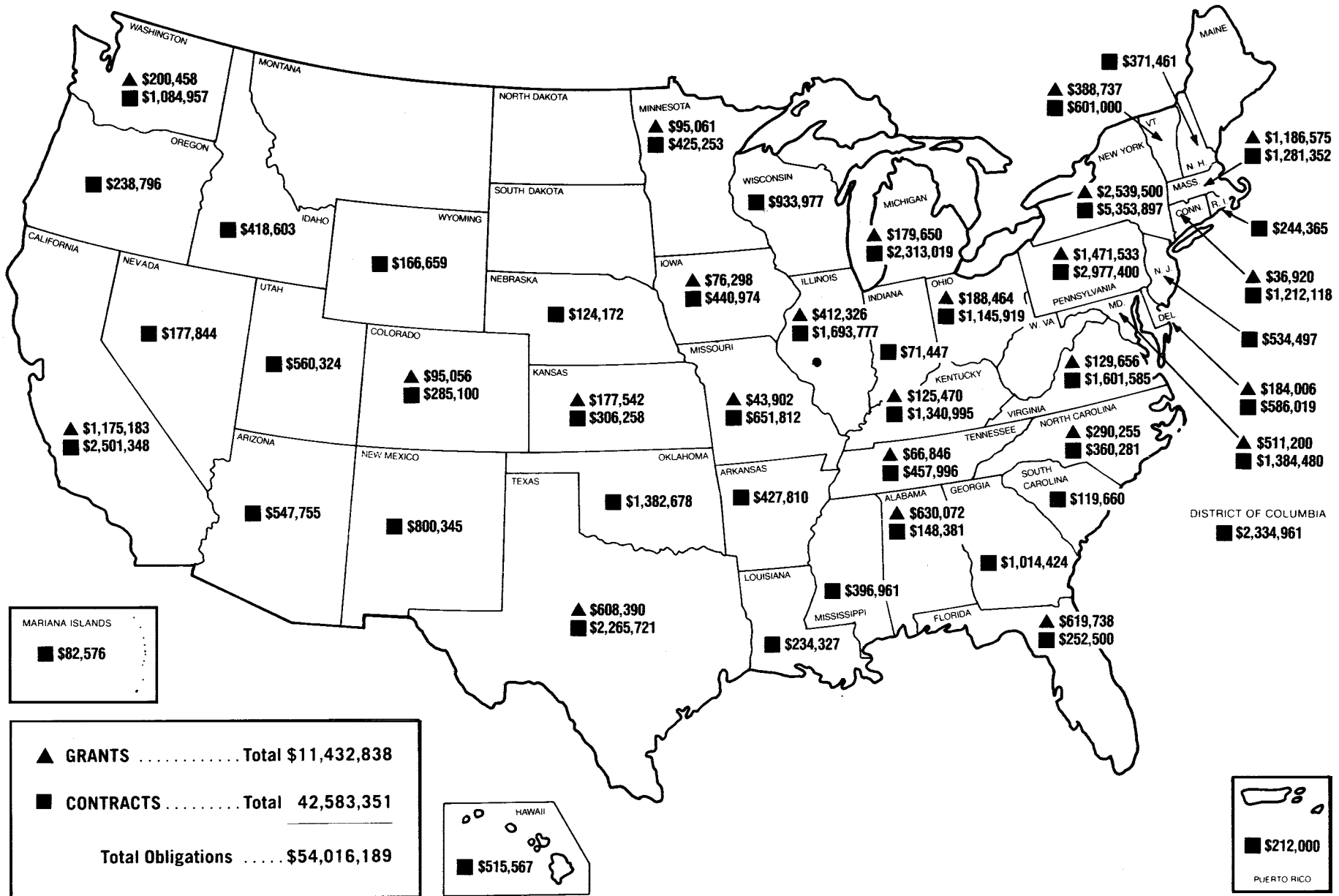
# STATE DISTRIBUTION OF GRANTS AND CONTRACTS — FISCAL YEAR 1976



**SYMBOL KEY**  
 ○○ TOTAL NO. OF GRANTS & DOLLARS PER STATE  
 ○ TOTAL NO. OF CONTRACTS & DOLLARS PER STATE

NOTE: Contract figures exclude Foreign Contracts: \$7,975,629. Grant figures exclude Foreign Grants: \$1,241,973; and Scientific Evaluation (DRG): \$438,000. Number of grants awarded includes 556 Supplemental Awards.

# DISTRIBUTION OF CANCER CONTROL OBLIGATIONS BY STATE AND TERRITORY – FISCAL YEAR 1976





# INSTITUTIONS RECEIVING MORE THAN \$1,000,000 FROM THE NATIONAL CANCER INSTITUTE IN FISCAL YEAR 1976

(DOLLARS IN THOUSANDS)

NAME OF INSTITUTION	GRANTS	CONTRACTS	CONSTRUCTION	TOTAL	LOCATION
Litton Bionetics, Inc.	\$ -	\$41,091	\$3,974	\$45,065*	Maryland
Sloan-Kettering Institute for Cancer Research	17,631	1,556	82	19,269	New York
Sidney Farber Cancer Center	7,272	923	6,548	14,743	Massachusetts
University of Texas System Cancer Center	10,649	3,079	-	13,728	Texas
University of Wisconsin Clinical Cancer Center	9,751	813	1,247	11,811	Wisconsin
University of Southern California/LAC Cancer Center	6,776	3,277	-	10,053	California
Johns Hopkins University Comprehensive Cancer Center	6,837	1,693	1,173	9,703	Maryland
Yale University Comprehensive Cancer Center	7,879	1,538	-	9,417	Connecticut
University of California, L.A., Comp. Cancer Center	6,144	2,832	-	8,976	California
Tracor Jitco, Inc.	-	8,723	-	8,723	Virginia
Roswell Park Memorial Institute	8,238	-	-	8,238	New York
Stanford University	6,628	1,233	-	7,861	California
Fred Hutchinson Cancer Research Center	5,199	575	1,977	7,751	Washington
New York University	4,819	204	2,650	7,673	New York
Memorial Hospital for Cancer and Allied Diseases	5,491	2,150	-	7,641	New York
Columbia University	5,578	1,920	-	7,498	New York
Fox Chase Institute for Cancer Research	6,244	658	-	6,902	Pennsylvania
University of Chicago	5,623	961	-	6,584	Illinois
Harvard University	5,957	556	-	6,513	Massachusetts
Enviro Controls, Inc.	-	6,108	-	6,108	Maryland
Duke University Comprehensive Cancer Center	4,397	1,624	-	6,021	North Carolina
University of Minnesota	4,477	1,386	-	5,863	Minnesota
Mount Sinai School of Medicine	4,548	1,093	-	5,641	New York
Microbiological Associates	-	5,540	-	5,540	Maryland
Yeshiva University	4,326	-	1,197	5,523	New York
Mayo Foundation Cancer Center	1,572	3,934	-	5,506	Minnesota
University of California, San Francisco	4,588	877	-	5,465	California
University of California, Berkeley	4,369	962	-	5,331	California
Massachusetts General Hospital	4,587	563	-	5,150	Massachusetts
Battelle Memorial Institute	-	5,076	-	5,076	Ohio
Southern Research Institute	260	4,795	-	5,055	Alabama
University of Rochester	3,724	538	700	4,962	New York
Massachusetts Institute of Technology	3,659	913	341	4,913	Massachusetts
University of Alabama Comprehensive Cancer Center	4,710	148	-	4,858	Alabama
Energy Research and Development Administration	-	4,636	-	4,636	Tennessee
Baylor College of Medicine	3,743	820	-	4,563	Texas
Meloy Laboratories, Inc.	-	4,502	-	4,502	Virginia
University of Hawaii, Manoa	1,094	733	2,635	4,462	Hawaii
University of New Mexico	3,159	1,225	-	4,384	New Mexico
University of Maryland, Baltimore County	27	4,133	-	4,160	Maryland
University of Pennsylvania	3,669	446	-	4,115	Pennsylvania
Michigan Cancer Foundation	1,113	2,970	-	4,083	Michigan
Washington University	4,061	-	-	4,061	Missouri
Temple University	3,487	496	-	3,983	Pennsylvania
Comprehensive Cancer Center of the State of Florida	3,304	487	-	3,791	Florida
Wistar Institute	3,343	403	-	3,746	Pennsylvania
University of Nebraska Medical Center	343	3,240	-	3,583	Nebraska
Veterans Hospital	-	3,533	-	3,533	Dist. of Col.
American Health Foundation	2,786	719	-	3,505	New York
Thomas Jefferson University	3,477	-	-	3,477	Pennsylvania
University of Washington	2,845	522	-	3,367	Washington
University of Utah	2,250	1,098	-	3,348	Utah
Hazleton Laboratories, Inc.	-	3,149	-	3,149	Virginia
Scripps Clinic and Research Foundation	1,611	1,511	-	3,122	California
Charles River Breeding Laboratories	-	3,112	-	3,112	Massachusetts
Arthur D. Little, Inc.	-	3,023	-	3,023	Massachusetts
Emory University	1,687	1,254	-	2,941	Georgia
University of Pittsburgh	1,633	1,257	-	2,890	Pennsylvania
Salk Institute	2,352	380	-	2,732	California
University of Iowa	1,776	937	-	2,713	Iowa
St. Jude Children's Research Hospital	2,679	-	-	2,679	Tennessee
Georgetown University	836	1,808	-	2,644	Dist. of Col.
University of Arizona	1,707	933	-	2,640	Arizona
University of Texas, Galveston	1,405	1,198	-	2,603	Texas
Stanford Research Institute	861	1,712	-	2,573	California
University of California, San Diego	2,543	-	-	2,543	California
Flow Laboratories, Inc.	-	2,540	-	2,540	Maryland
University of North Carolina	2,277	215	-	2,492	North Carolina
Northwestern University	1,166	202	1,105	2,473	Illinois

NAME OF INSTITUTION	GRANTS	CONTRACTS	CONSTRUCTION	TOTAL	LOCATION
University of Kansas	1,754	690	—	2,444	Kansas
SUNY, Buffalo	2,420	—	—	2,420	New York
Ohio State University Cancer Research Center	2,302	62	—	2,364	Ohio
Health Research, Inc.	—	2,359	—	2,359	New York
Boston University	1,889	416	—	2,305	Massachusetts
Pfizer, Inc.	—	2,275	—	2,275	New Jersey
University of Colorado Medical Center	1,814	260	—	2,074	Colorado
Rockefeller University	1,990	—	90	2,080	New York
Montefiore Hospital and Medical Center	1,274	690	—	1,964	New York
Cold Spring Harbor Laboratories	1,946	—	—	1,946	New York
Tufts University	1,924	—	—	1,924	Massachusetts
University of California, Davis	1,045	868	—	1,913	California
George Washington University	1,514	377	—	1,891	Dist. of Col.
Case Western Reserve University	1,379	407	—	1,786	Ohio
University of Louisville	408	1,369	—	1,777	Kentucky
Vanderbilt University	941	835	—	1,776	Tennessee
Pennsylvania State University	248	1,470	—	1,718	Pennsylvania
University of Vermont	904	737	—	1,641	Vermont
Research Foundation of SUNY	—	1,637	—	1,637	New York
Howard University	961	652	—	1,613	Dist. of Col.
St. Louis University	531	1,076	—	1,607	Missouri
University of Michigan	1,274	69	256	1,599	Michigan
Virginia Commonwealth University	1,242	316	—	1,558	Virginia
Dartmouth College	1,073	476	—	1,549	New Hampshire
University of Illinois Medical Center	789	734	—	1,523	Illinois
Life Sciences, Inc.	—	1,519	—	1,519	Florida
Midwest Research Institute	100	1,416	—	1,516	Missouri
Worcester Foundation	1,221	219	—	1,440	Massachusetts
Jackson Laboratory	717	721	—	1,438	Maine
Pennsylvania State University, Hershey Medical Center	1,420	—	—	1,420	Pennsylvania
University of Kentucky	975	418	—	1,393	Kentucky
ITT Research Institute	147	1,239	—	1,386	Illinois
Army Management Engineering	—	1,366	—	1,366	Maryland
Wayne State University	941	425	—	1,366	Michigan
University of California, Irvine	1,225	115	—	1,340	California
California State Health and Welfare	340	999	—	1,339	California
Michigan State University	1,049	283	—	1,332	Michigan
Electro-Nucleonics Laboratories	—	1,329	—	1,329	Maryland
Wake Forest University	1,328	—	—	1,328	North Carolina
Illinois Cancer Council	496	818	—	1,314	Illinois
University of Cincinnati	460	851	—	1,311	Ohio
Occupational Safety and Health	—	1,309	—	1,309	Maryland
Children's Hospital of Philadelphia	1,136	169	—	1,305	Pennsylvania
Parke, Davis & Company	—	1,291	—	1,291	Michigan
Monsanto Research Corporation	—	1,259	—	1,259	Ohio
University of Tennessee, Knoxville	646	596	—	1,242	Tennessee
Children's Hospital of Los Angeles	531	705	—	1,236	California
Allegheny General Hospital	770	462	—	1,232	Pennsylvania
University of Virginia	1,001	228	—	1,229	Virginia
Cornell University Medical Center	686	527	—	1,213	New York
Value Engineering Company	—	1,211	—	1,211	Virginia
Upjohn Company	—	1,210	—	1,210	Michigan
Rush-Presbyterian-St. Luke's Medical Center	486	720	—	1,206	Illinois
Health Insurance Plan of New York	—	1,195	—	1,195	New York
University of Puerto Rico	1,182	—	—	1,182	Puerto Rico
Southwest Foundation for Research	198	943	—	1,141	Texas
New England Medical Center Hospitals	513	617	—	1,130	Massachusetts
JRB Associates	—	1,124	—	1,124	Virginia
Cornell University	1,124	—	—	1,124	New York
Roger Williams General Hospital	1,121	—	—	1,121	Rhode Island
University of Oklahoma, Health Sciences	450	670	—	1,120	Oklahoma
American College of Radiation	1,000	100	—	1,100	Illinois
University of Tennessee, Health Sciences	1,080	—	—	1,080	Tennessee
ARS/Sprague-Dawley	—	1,042	—	1,042	Wisconsin
Purdue University	909	129	—	1,038	Indiana
New York University Medical Center	—	1,032	—	1,032	New York
Albany Medical College	490	541	—	1,031	New York
Hahnemann Medical College and Hospital	809	212	—	1,021	Pennsylvania
Texas State Department of Health	—	1,004	—	1,004	Texas

<b>TOTALS</b>	<b>\$287,340</b>	<b>\$208,322</b>	<b>\$23,975</b>	<b>\$519,637</b>
<b>PERCENT OF TOTAL AWARDED ABOVE</b>	<b>55.3</b>	<b>35.3</b>	<b>4.6</b>	<b>100.0</b>
<b>TOTAL NCI FISCAL YEAR 1976 OBLIGATIONS</b>	<b>\$761,450</b>			
<b>PERCENT OF NCI TOTAL OBLIGATIONS</b>	<b>37.7</b>	<b>27.4</b>	<b>3.1</b>	<b>68.2</b>

\*Litton Bionetics—Includes \$37 million at Frederick Cancer Research Center for 18 months of activity. The annual operating level at FCRC is \$24-25 million.

NOTE: The NCI funds approximately 500 institutions; therefore, the above listing represents about 28 percent of the institutions annually funded by NCI.

# NCI SUPPORT TO COMPREHENSIVE CANCER CENTERS – FISCAL YEAR 1976

(DOLLARS IN THOUSANDS)

COMPREHENSIVE CANCER CENTERS	LOCATION	RESEARCH GRANTS	RESEARCH AND RESEARCH SUPPORT CONTRACTS	MANPOWER PROGRAMS	CANCER CONTROL	CONSTRUCTION	TOTAL EXTRAMURAL SUPPORT
Memorial Sloan-Kettering Cancer Center .....	New York City	\$ 21,903	\$ 2,801	\$ 860	\$ 1,264	\$ 82	\$ 26,910
Sidney Farber Cancer Center .....	Boston	6,071	849	346	929	6,548	14,743
University of Texas System Cancer Center .....	Houston	9,972	2,307	677	772	–	13,728
University of Wisconsin Clinical Cancer Center .....	Madison	8,787	258	883	636	1,247	11,811
Illinois Cancer Center .....	Chicago	7,149	1,883	317	1,123	1,105	11,577
Fox Chase and University of Pennsylvania Cancer Center ...	Philadelphia	8,342	617	1,016	1,042	–	11,017
University of Southern California/Los Angeles County Cancer Center .....	Los Angeles	5,756	2,953	524	820	–	10,053
Johns Hopkins University Comprehensive Cancer Center ...	Baltimore	5,621	1,020	705	1,184	1,173	9,703
Yale University Comprehensive Cancer Center .....	New Haven	7,229	1,244	613	331	–	9,417
Roswell Park Memorial Institute .....	Buffalo	7,375	–	594	269	–	8,238
Fred Hutchinson Cancer Center .....	Seattle	5,003	560	–	211	1,977	7,751
Duke University Comprehensive Cancer Center .....	Durham	3,420	1,303	687	611	–	6,021
Mayo Foundation Cancer Center .....	Rochester	1,452	3,509	120	425	–	5,506
University of Alabama Comprehensive Cancer Center .....	Birmingham	3,837	–	243	778	–	4,858
Georgetown University/Howard University Comprehensive Cancer Center .....	Washington, D. C.	1,536	1,425	261	1,035	–	4,257
Comprehensive Cancer Center of the State of Florida .....	Miami	2,554	487	130	620	–	3,791
Colorado Regional Cancer Center .....	Denver	3,050	162	264	98	–	3,574
Ohio State University Research Foundation .....	Columbus	1,898	–	302	164	–	2,364
<b>TOTAL NCI SUPPORT</b>		<b>\$110,955</b>	<b>\$21,378</b>	<b>\$8,542</b>	<b>\$12,312</b>	<b>\$12,132</b>	<b>\$165,319</b>

# DISTRIBUTION OF NCI CONTRACTS — FISCAL YEAR 1976

## PROGRAM DISTRIBUTION

PERCENT OF TOTAL NUMBER OF CONTRACTS	NUMBER OF CONTRACTS	NCI PROGRAM AREA	THOUSANDS OF DOLLARS	PERCENT OF TOTAL DOLLARS
27.0	324	Division of Cancer Biology and Diagnosis	\$36,533	13.8
23.5	281	Division of Cancer Treatment	68,368	25.9
34.1	408	Division of Cancer Cause and Prevention	110,144	41.7
15.3	183	Division of Cancer Control and Rehabilitation	42,584	16.1
0.1	2	Office of the Director	6,250	2.5
	1,198	Totals	\$263,879	

Excludes construction contracts totalling \$4,721,000.  
Includes Interagency Agreements.

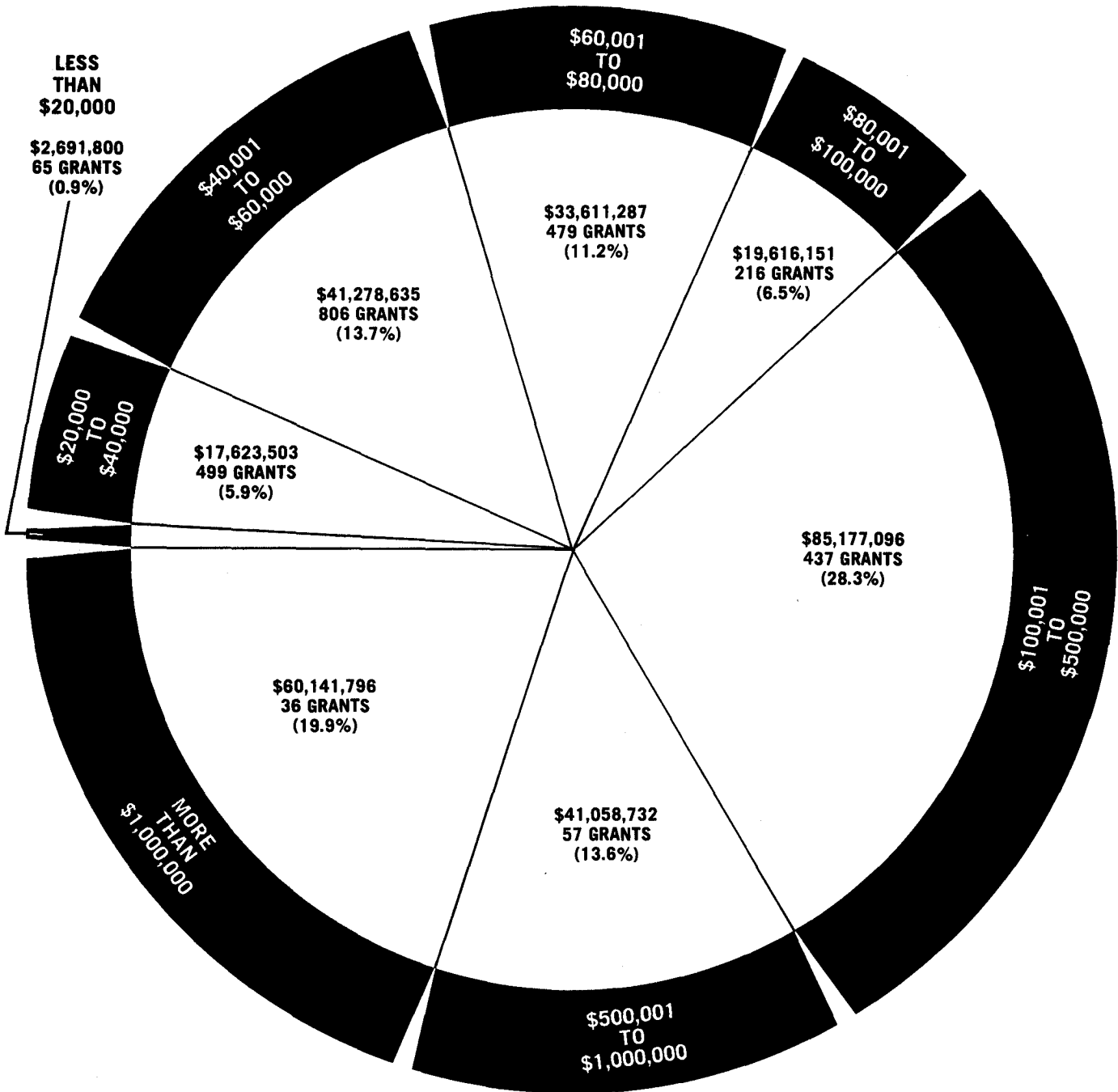
## INSTITUTIONAL DISTRIBUTION

PERCENT OF TOTAL NUMBER OF CONTRACTS	NUMBER OF CONTRACTS	TYPE OF INSTITUTION	THOUSANDS OF DOLLARS	PERCENT OF TOTAL DOLLARS
18.8	225	Profit-Making	\$103,026	39.0
41.3	495	Academic	72,155	27.3
24.0	287	Non-Profit	57,711	21.9
4.3	51	Federal Government	13,262	5.1
3.6	44	State and Local Government	9,749	3.7
8.0	96	Foreign	7,976	3.0
	1,198	Totals	\$263,879	

Excludes construction contracts totalling \$4,721,000.

# DISTRIBUTION OF NCI RESEARCH GRANTS BY VALUE OF GRANT AWARD—FISCAL YEAR 1976

**TOTAL GRANT DOLLARS**  
**\$301,199,000**  
**2,595 GRANTS**

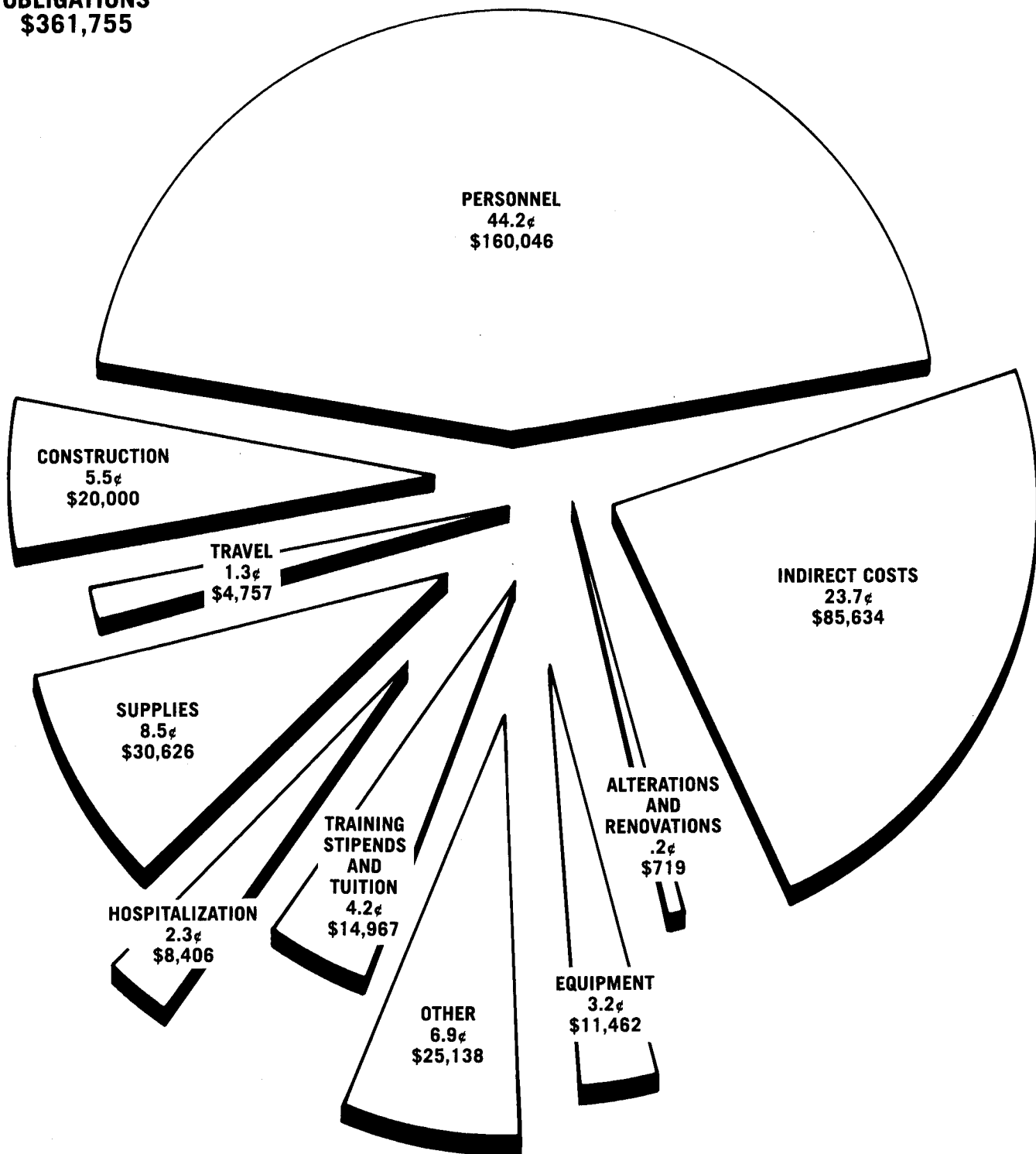


Excludes Training and Fellowship Awards, Cancer Control Grants, Clinical Education, and Career Awards. Includes Clinical Trials and CREG Awards.

# DISTRIBUTION OF THE "GRANT DOLLAR" — FISCAL YEAR 1976

(DOLLARS IN THOUSANDS)

**TOTAL GRANT OBLIGATIONS**  
**\$361,755**



**FOREIGN RESEARCH GRANTS AND  
CONTRACTS — FISCAL YEAR 1976**

	NUMBER OF GRANTS	GRANT DOLLARS AWARDED	NUMBER OF CONTRACTS	CONTRACT DOLLARS AWARDED	TOTAL DOLLARS AWARDED	PERCENT OF TOTAL AMOUNT AWARDED
Argentina	—	—	1	\$ 78,495	\$ 78,495	0.8
Australia	3	\$ 132,602	5	429,653	562,255	6.0
Austria	—	—	1	50,000	50,000	0.5
Belgium	1	199,143	1	62,700	261,843	2.8
British Columbia	1	38,086	—	—	38,086	0.4
Canada	6	221,278	7	379,141	600,419	6.4
Colombia	—	—	2	109,602	109,602	1.2
Denmark	1	21,020	—	—	21,020	0.2
England	7	135,755	9	407,644	543,399	5.8
Finland	1	53,500	5	190,960	244,460	2.6
France	3	96,515	10	1,319,585	1,416,100	15.0
Germany	—	—	1	80,000	80,000	0.8
Israel	2	112,500	18	1,646,562	1,759,062	18.7
Italy	1	56,560	11	956,774	1,013,334	10.8
Japan	1	40,300	4	314,322	354,622	3.8
Netherlands	—	—	5	551,940	551,940	5.9
Norway	—	—	1	105,345	105,345	1.1
Spain	1	22,000	1	30,016	52,016	0.5
Sweden	2	175,315	8	675,280	850,595	9.0
Switzerland	3	142,459	4	462,610	605,069	6.4
Uganda	—	—	1	125,000	125,000	1.3
<b>TOTAL</b>	<b>33</b>	<b>\$1,447,033</b>	<b>95</b>	<b>\$7,975,629</b>	<b>\$9,422,662</b>	<b>100.0</b>

## APPROPRIATIONS OF THE NCI 1938-1977

1938 .....	\$ 400,000		
1939 .....	400,000		
1940 THROUGH 1946	\$3,879,570	}	<b>0.34%</b> <b>\$21,000,470</b>
1947 .....	1,820,900		
1948 .....	14,500,000		
1949 .....	22,000,000	}	
1950 THROUGH 1956	\$149,481,750		<b>4.50%</b> <b>\$276,315,750</b>
1957 .....	48,432,000		
1958 .....	56,402,000		
1959 .....	75,268,000	}	
1960 THROUGH 1966	\$958,954,000		<b>22.69%</b> <b>\$1,393,234,000</b>
1967 .....	175,656,000		
1968 .....	183,356,000		
1969 .....	185,149,500	}	
1970 .....	190,486,063		<b>9.87%</b> <b>\$606,018,563</b>
1971 .....	230,383,000		
1972 .....	\$378,794,000	}	
1973 .....	492,205,000		
1974 .....	551,191,500		
1975 .....	691,666,000		
1976 .....	761,727,000*		
"TQ" .....	152,901,000**		
1977 .....	815,000,000		
<b>62.60%</b> <b>\$3,843,484,500</b>		}	
<b>TOTAL (1938 through 1977) .....</b>			<b>\$6,140,053,283</b>

### NOTEWORTHY DATES FOR NCI APPROPRIATIONS

Exceeded \$1,000,000 in 1947. Exceeded \$50,000,000 in 1958. Exceeded \$100,000,000 in 1961.  
Exceeded \$500,000,000 in 1974. Cumulative appropriations exceeded \$6,000,000,000 in 1977.

**TRANSITION QUARTER ("TQ")**—July 1, 1976 through September 30, 1976—The Interim Period in the changing of the Federal Fiscal Year from July 1 through June 30, to October 1 through September 30.

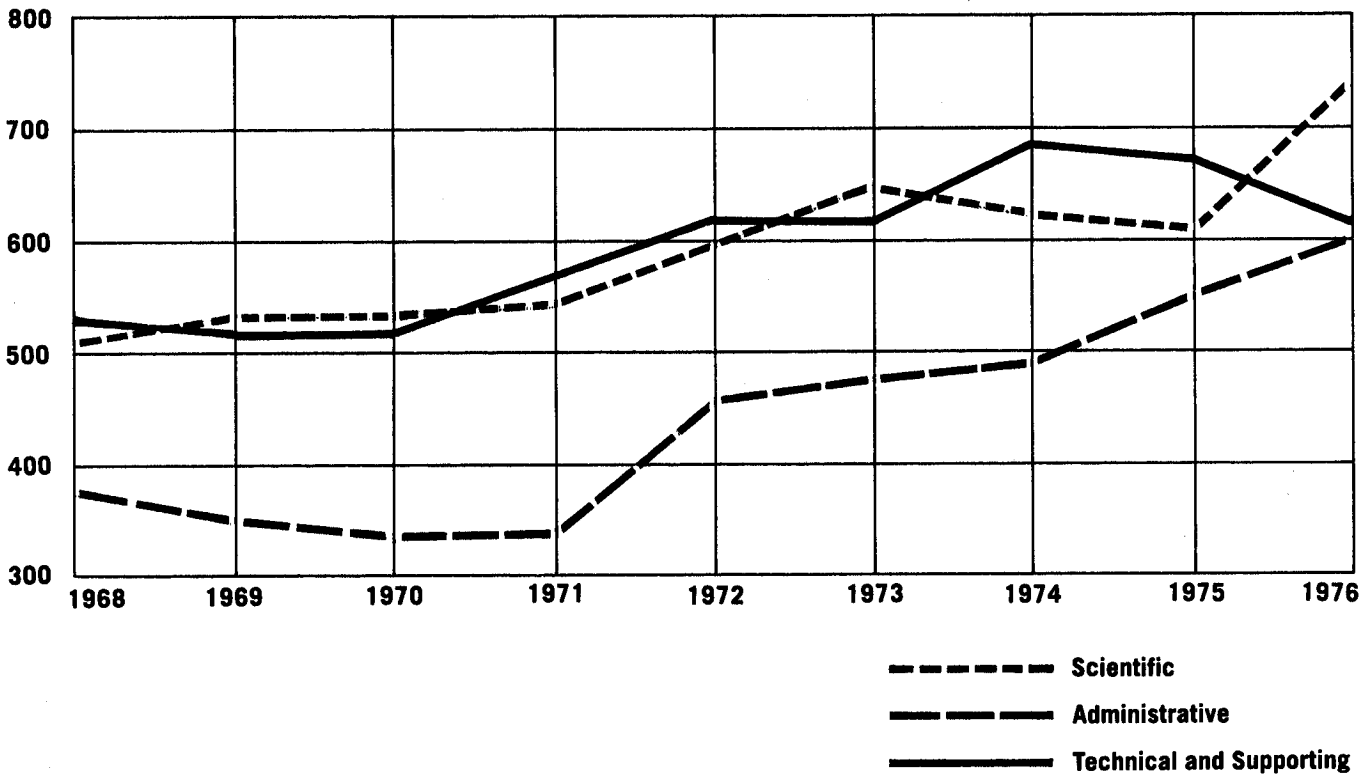
\*Includes \$18,163,000 for training funds provided by Continuing Resolution.

\*\*Includes \$3,201,000 for training funds provided by Continuing Resolution.



# DISTRIBUTION OF PERSONNEL BY FUNCTION

Percent of Actual Employment									
	FISCAL YEAR								
	1968	1969	1970	1971	1972	1973	1974	1975	1976
<b>Scientific</b>	37.5%	37.8%	38.3%	37.5%	36.2%	37.3%	34.4%	32.7%	37.9%
<b>Administrative</b>	25.5%	24.4%	24.0%	23.9%	27.3%	27.6%	27.0%	30.0%	30.7%
<b>Technical and Supporting</b>	37.0%	37.8%	37.7%	38.6%	36.5%	35.1%	38.6%	37.3%	31.4%
<b>Total Actual Employment</b>	1453	1411	1355	1426	1665	1736	1805	1849	1955



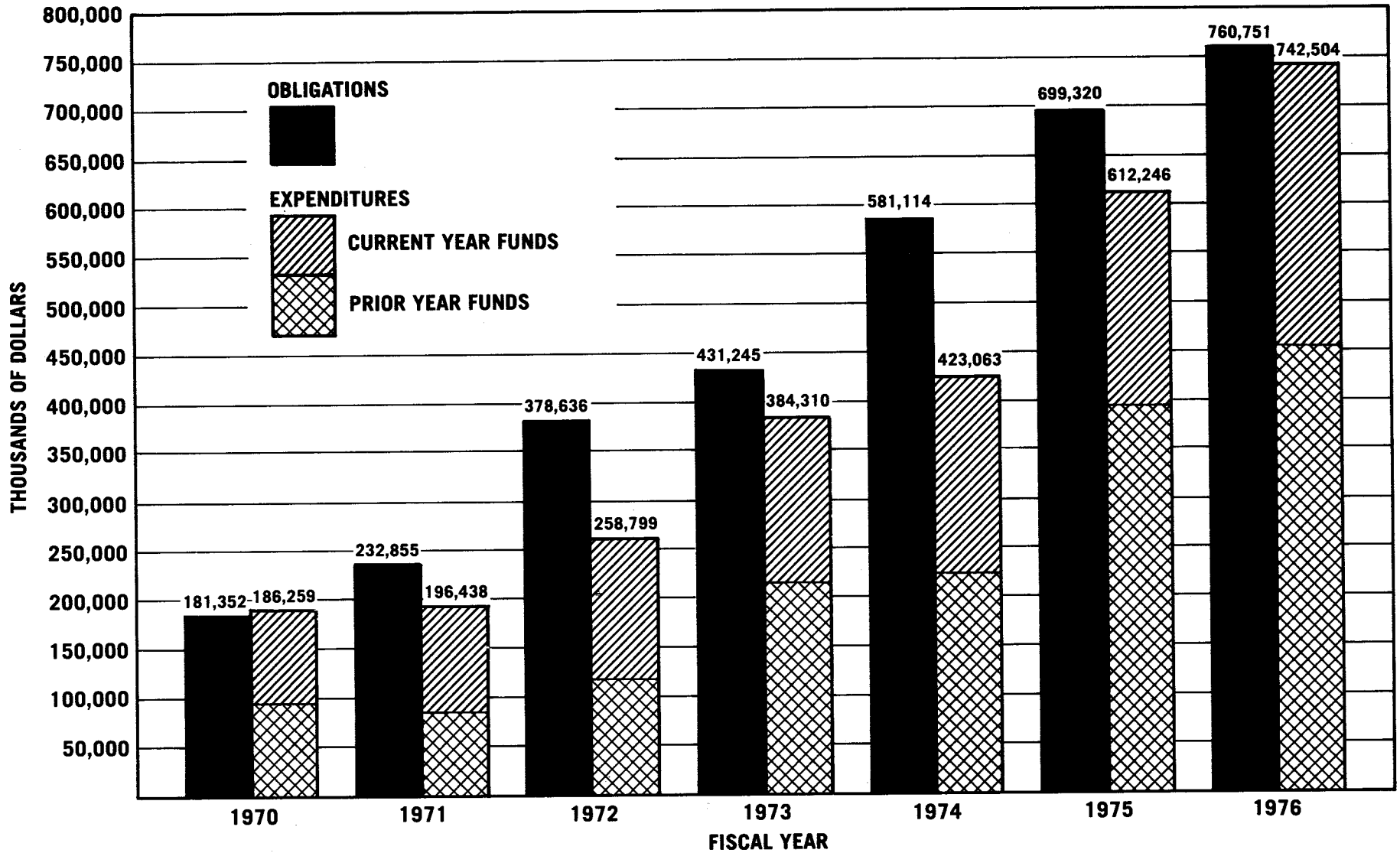
## COMPARISON OF DOLLARS, POSITIONS AND SPACE

	DOLLARS			POSITIONS			SPACE		
	OBLIGATIONS (\$000's)	PERCENT OF INCREASE OVER BASE YEAR	PERCENT OF INCREASE OVER PRIOR YEAR	FULL-TIME PERMANENT EMPLOYEES	PERCENT OF INCREASE OVER BASE YEAR	PERCENT OF INCREASE OVER PRIOR YEAR	ALLOCATED SPACE (SQUARE FEET)*	PERCENT OF INCREASE OVER BASE YEAR	PERCENT OF INCREASE OVER PRIOR YEAR
1971	232,855	Base Year		1426	Base Year		321,230	Base Year	
1972	378,636	62.6	62.6	1665	16.8	16.8	329,587	2.6	2.6
1973	431,245	85.2	13.9	1736	21.7	4.3	357,972	11.4	8.6
1974	581,149	149.6	34.8	1805	26.6	4.0	381,436	18.7	6.6
1975	699,320	200.3	20.3	1849	29.7	2.4	382,485	19.1	0.2
1976	760,751	226.7	8.8	1955	37.1	5.7	387,324	20.6	1.3

FISCAL YEAR

\*Does not include field station-assigned space.

## NATIONAL CANCER INSTITUTE OBLIGATIONS AND EXPENDITURES



**OBLIGATIONS:** Orders placed, grants and contracts awarded, salaries earned and similar financial transactions which legally utilize or reserve an appropriation for expenditure.  
**EXPENDITURES:** Payments (cash or checks) made from current or prior year appropriations.

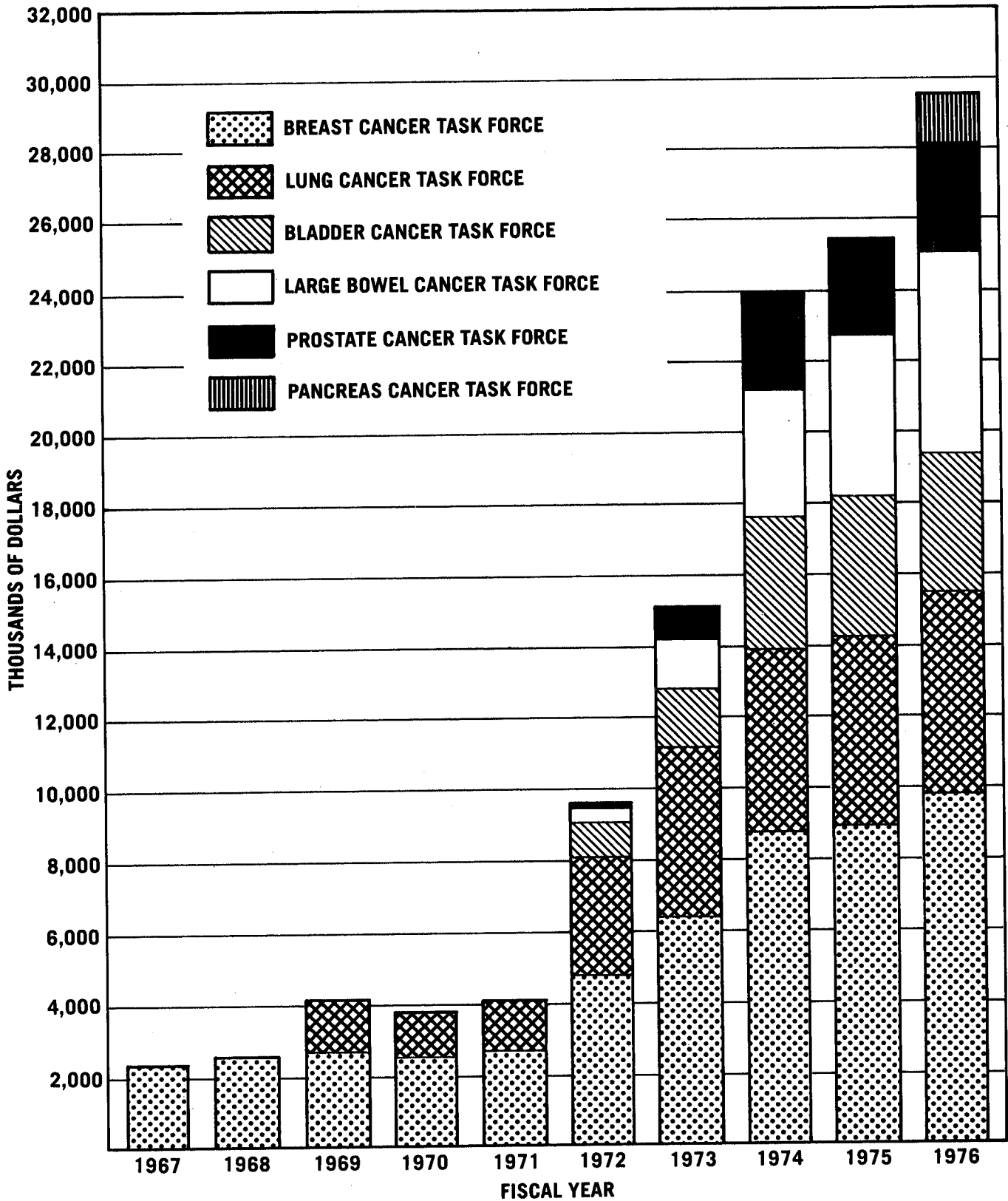
# NCI OBLIGATIONS — 1971-1976

(DOLLARS IN THOUSANDS)

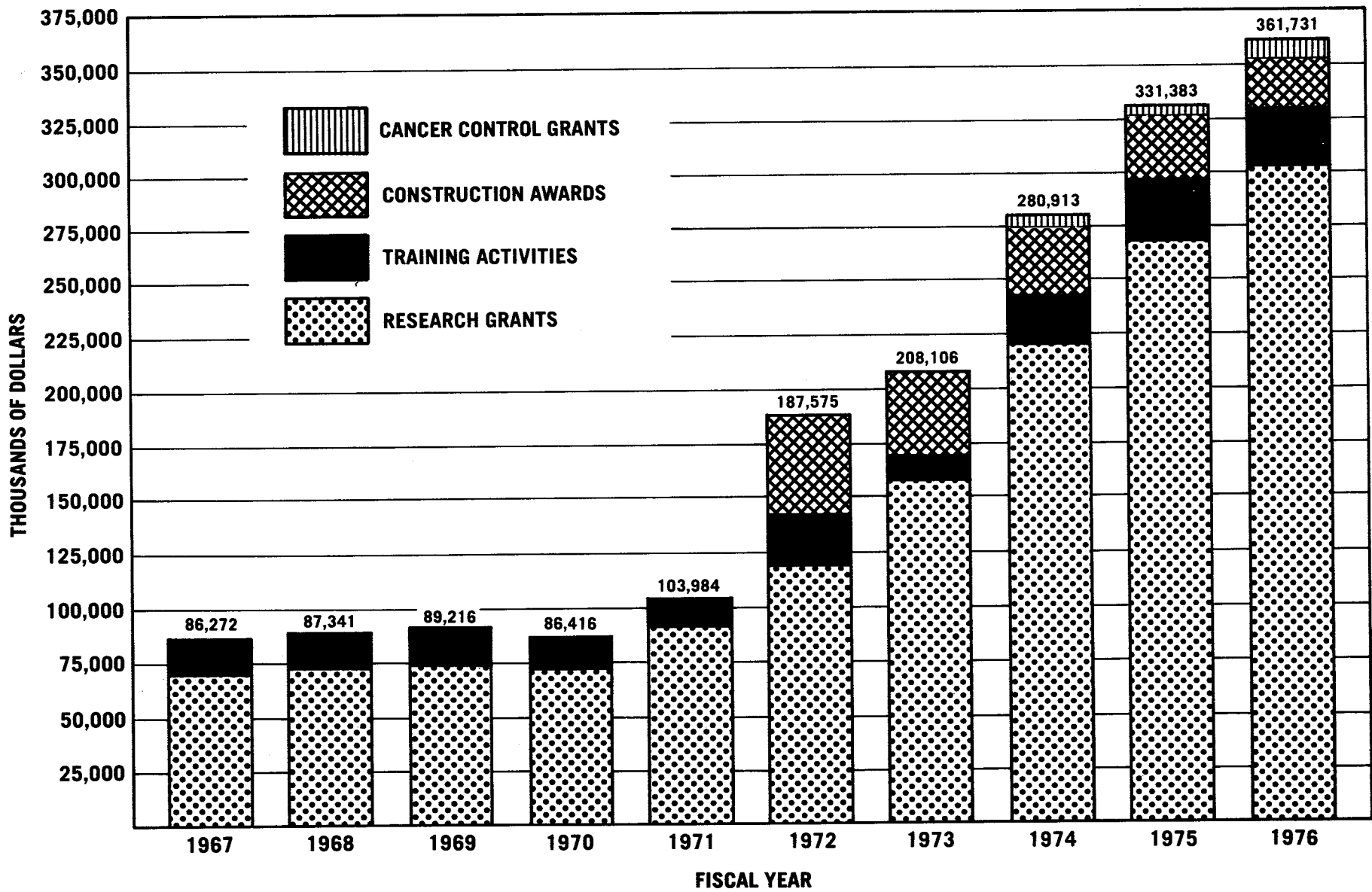
	1971		1972		1973		1974		1975		1976	
	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT
<b>GRANTS</b>												
Research .....	1,175	\$ 97,327	1,472	\$125,202	1,770	\$165,684	2,195	\$219,743	2,567	\$270,614	2,635	\$312,139
Fellowships .....	191	1,786	197	3,948	91	988	405	6,004	452	13,368	281	13,401
Training .....	171	10,774	201	16,474	193	12,900	173	17,558	103	9,736	45	4,759
Construction .....	—	—	17	47,004	17	34,737	8	31,692	10	30,000	9	20,000
<b>TOTAL GRANTS</b>	<b>1,537</b>	<b>109,887</b>	<b>1,887</b>	<b>192,628</b>	<b>2,071</b>	<b>214,309</b>	<b>2,781</b>	<b>274,997</b>	<b>3,132</b>	<b>323,718</b>	<b>2,970</b>	<b>350,299</b>
<b>DIRECT OPERATIONS</b>												
Research and Research Support												
Contracts .....	445	78,196	582	122,857	677	135,908	950	180,360	1,016	199,585	1,015	221,508
Construction Contracts .....	—	—	—	3,999	—	4,067	19	6,398	14	14,976	7	4,721
In-House .....	<u>1,426</u>	33,853	<u>1,665</u>	46,235	<u>1,736</u>	56,362	<u>1,805</u>	68,848	<u>1,849</u>	90,442	<u>1,955</u>	105,658
Management Fund .....	—	10,917	—	12,910	—	15,194	—	16,754	—	20,326	—	22,094
<b>TOTAL DIRECT OPERATIONS</b>	<b>—</b>	<b>122,966</b>	<b>—</b>	<b>186,001</b>	<b>—</b>	<b>211,531</b>	<b>—</b>	<b>272,360</b>	<b>—</b>	<b>325,329</b>	<b>—</b>	<b>353,981</b>
<b>CANCER CONTROL</b>												
In-House .....	—	—	—	—	[8]	182	[26]	931	[53]	1,699	[58]	2,455
Contracts .....	—	—	—	—	19	5,222	154	26,910	199	43,909	183	42,584
Grants .....	—	—	—	—	—	—	11	5,916	26	4,665	60	11,432
<b>TOTAL CANCER CONTROL</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5,404</b>	<b>—</b>	<b>33,757</b>	<b>—</b>	<b>50,273</b>	<b>—</b>	<b>56,471</b>
<b>TOTAL NCI OBLIGATIONS</b>	<b>—</b>	<b>\$232,853</b>	<b>—</b>	<b>\$378,629</b>	<b>—</b>	<b>\$431,244</b>	<b>—</b>	<b>\$581,114</b>	<b>—</b>	<b>\$699,320</b>	<b>—</b>	<b>\$760,751</b>

NOTES: Career programs and Clinical Education Program are included in Research Grant figures.  
 Underscored figures represent full-time permanent employees on rolls as of June 30 of the year indicated.  
 Figures in brackets are full-time permanent employees and are included in total figures underscored above.

# TASK FORCE OBLIGATIONS — 1967-1976



# NCI GRANT AWARDS — 1967-1976



# NCI REGULAR GRANT AWARDS — 1971-1976 (Including Clinical Cooperative Groups)

(DOLLARS IN THOUSANDS)

FISCAL YEAR	TYPE AWARD	REQUESTED		APPROVED		AWARDED		PERCENT FUNDED
		NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	
1971	Competing							
	New .....	570	\$ 26,854	388	\$13,648	215	\$ 7,346	55.4
	Renewals .....	328	20,711	273	13,572	177	9,455	64.8
	<b>Total</b>	<b>898</b>	<b>47,565</b>	<b>661</b>	<b>27,220</b>	<b>392</b>	<b>16,801</b>	<b>59.3</b>
	<b>Non-Competing</b> .....	—	—	—	—	<b>618</b>	<b>33,009</b>	
1972	Competing							
	New .....	1,013	\$ 57,836	612	\$26,093	384	\$ 17,122	62.7
	Renewals .....	343	25,171	284	16,833	204	13,346	71.8
	<b>Total</b>	<b>1,356</b>	<b>83,007</b>	<b>896</b>	<b>42,926</b>	<b>588</b>	<b>30,468</b>	<b>65.6</b>
	<b>Non-Competing</b> .....	—	—	—	—	<b>694</b>	<b>36,417</b>	—
1973	Competing							
	New .....	1,258	\$ 84,946	715	\$33,794	372	\$ 18,085	52.0
	Renewals .....	217	21,906	189	13,363	129	10,365	68.3
	<b>Total</b>	<b>1,475</b>	<b>106,852</b>	<b>904</b>	<b>47,157</b>	<b>501</b>	<b>28,450</b>	<b>55.4</b>
	<b>Non-Competing</b> .....	—	—	—	—	<b>1,013</b>	<b>54,687</b>	—
1974	Competing							
	New .....	1,382	\$100,717	909	\$45,713	500	\$ 27,824	55.0
	Renewals .....	379	33,651	336	22,815	285	20,413	84.8
	<b>Total</b>	<b>1,761</b>	<b>134,368</b>	<b>1,245</b>	<b>68,528</b>	<b>785</b>	<b>48,237</b>	<b>63.1</b>
	<b>Non-Competing</b> .....	—	—	—	—	<b>1,049</b>	<b>62,803</b>	—
1975	Competing							
	New .....	1,509	\$108,621	979	\$48,023	581	\$ 30,605	59.5
	Renewals .....	555	55,314	429	31,876	349	27,949	81.0
	<b>Total</b>	<b>2,064</b>	<b>163,935</b>	<b>1,408</b>	<b>79,899</b>	<b>930</b>	<b>58,554</b>	<b>66.1</b>
	<b>Non-Competing</b> .....	—	—	—	—	<b>1,112</b>	<b>72,917</b>	—
1976	Competing							
	New .....	1,499	\$113,135	910	\$47,342	388	\$ 22,230	42.6
	Renewals .....	517	53,992	376	28,070	257	21,236	68.4
	<b>Total</b>	<b>2,016</b>	<b>167,127</b>	<b>1,286</b>	<b>75,412</b>	<b>645</b>	<b>43,466</b>	<b>50.2</b>
	<b>Non-Competing</b> .....	—	—	—	—	<b>1,486</b>	<b>108,818</b>	—

DHEW Publication No. (NIH) 77-512