

FMB

1977 ACTUALS

*National  
Cancer  
Institute*

NATIONAL CANCER PROGRAM



# NCI FACT BOOK

**NATIONAL CANCER PROGRAM**

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

Revised January 1978

## 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

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

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

DHEW Publication No. (NIH) 78-512

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# DIRECTORY OF PERSONNEL

NATIONAL CANCER INSTITUTE  
NATIONAL INSTITUTES OF HEALTH  
BETHESDA, MARYLAND 20014

NIH Operator  
496-4000  
Area Code 301

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<b>CHIEF, PERSONNEL MANAGEMENT BRANCH</b>	<b>BUILDING 31</b>	
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<b>CHIEF, MANAGEMENT POLICY BRANCH</b>	<b>BUILDING 31</b>	
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<b>FREDERICK CANCER RESEARCH CENTER</b>	<b>FREDERICK, MARYLAND</b>	
<b>SCIENTIFIC COORDINATOR</b>	<b>BUILDING</b>	
Dr. William W. Payne .....	860 .....	FTS-8-935-7305
<b>ADMINISTRATIVE OFFICER</b>	<b>BUILDING</b>	
Mr. Richard Carter .....	860 .....	FTS-8-935-2021

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Dr. Diane J. Fink .....	732A .....	427-7997
<b>ADMINISTRATION 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.

**August 1, 1977**—The Biomedical Research Extension Act of 1977, P.L. 95-83, Title II, increased the number of consultant/expert appointments from 100 to 151.

## 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.

**DIRECTOR  
NATIONAL CANCER PROGRAM  
NATIONAL CANCER INSTITUTE**

July 29, 1977 TO PRESENT

**Arthur Canfield Upton, M.D.**

Dr. Arthur C. Upton was born in Ann Arbor, Michigan, February 27, 1923. He received his B.A. (1944) and M.D. (1946) degrees from the University of Michigan. After his residency in Pathology from 1948 to 1950, he became an instructor in Pathology at the University of Michigan until 1951. In 1951, Dr. Upton accepted a position as Pathologist in the Biology Division of the Oak Ridge National Laboratory, where, he was appointed Chief, Pathology-Physiology Section in 1954 and remained in that position until 1969. From 1969 to 1970 he was Chairman, Department of Pathology, State Univer-

sity of New York at Stony Brook. In 1970, he accepted the position as Dean, School of Basic Health Sciences at that institution, a position he held until 1975. Additionally, during the period 1969 through 1977 until his appointment as Director of the National Cancer Program, he was Attending Pathologist, Medical Department, Brookhaven National Laboratory and Professor of Pathology, State University of New York at Stony Brook. Dr. Upton maintains membership in many National Scientific Societies and was President of the American Association for Cancer Research (1963-1964), the Radiation Research Society (1965-1966), and the American Society for Experimental Pathology (1967-1968).

**PRESIDENT'S CANCER PANEL**

	EXPIRATION OF APPOINTMENT
Mr. Benno C. Schmidt, Chairman J. H. Whitney & Co. New York City, New York	1978
Dr. Paul A. Marks Columbia University New York City, New York	1979
Dr. Elizabeth C. Miller McArdle Laboratory for Cancer Research Madison, Wisconsin	1980



## NATIONAL CANCER INSTITUTE EXECUTIVE COMMITTEE

Dr. Guy R. Newell, *Chairman*  
Deputy Director, NCI

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

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

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

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

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

Dr. John B. Moloney  
Acting Assistant Director, NCI

Dr. Bayard H. Morrison III  
Assistant Director, NCI

Dr. Gregory T. O'Connor  
Associate Director for International Affairs  
Acting Director, Division of Cancer Cause and Prevention

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

Dr. William D. Terry  
Acting Associate Director for Cancer Centers

Dr. Richard A. Tjalma  
Assistant Director, NCI

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

Dr. Arthur C. Upton, *Ex Officio*  
Director, National Cancer Program, National Cancer Institute

# 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. Philippe Shubik The Eppley Institute for Research in Cancer Omaha, Nebraska	1982
Dr. Bruce N. Ames University of California Berkeley, California	1982	Dr. Gerald N. Wogan Massachusetts Institute of Technology Cambridge, Massachusetts	1978
Dr. Harold Amos Harvard Medical School Boston, Massachusetts	1982		
Dr. William O. Baker Bell Telephone Laboratories, Inc. Murray Hill, New Jersey	1980		
Dr. Frank J. Dixon Scripps Clinic and Research Foundation La Jolla, California	1978		
Dr. G. Denman Hammond University of Southern California Los Angeles, California	1980		
Dr. David S. Hogness Stanford University Stanford, California	1978		
Mrs. Mary Lasker Albert and Mary Lasker Foundation New York, New York	1980		
Mrs. Vincent Lombardi Manalapan, Florida	1982		
Dr. Joseph H. Ogura Washington University St. Louis, Missouri	1980		
Dr. Henry C. Pitot University of Wisconsin Madison, Wisconsin	1982		
Dr. William E. Powers Cancer Research Center Columbia, Missouri	1980		
Mr. Laurance Rockefeller Memorial Sloan-Kettering Cancer Center New York, New York	1978		
Mr. Morris M. Schrier MCA, Inc. New York, New York	1978		
Dr. Frederick Seitz The Rockefeller University New York, New York	1982		
Dr. William Shingleton Duke University Medical Center Durham, North Carolina	1980		

## EX OFFICIO MEMBERS

- Dr. Frank Press  
Director  
Office of Science and Technology Policy  
The White House  
Washington, D. C.
- Honorable Joseph A. Califano, Jr.  
Secretary of Health, Education, and Welfare  
Washington, D. C.
- Dr. Donald S. Fredrickson  
Director, National Institutes of Health  
Bethesda, Maryland
- Dr. John D. Chase  
Veterans Administration  
Washington, D. C.
- Dr. Robert N. Smith  
Department of Defense  
Washington, D. C.

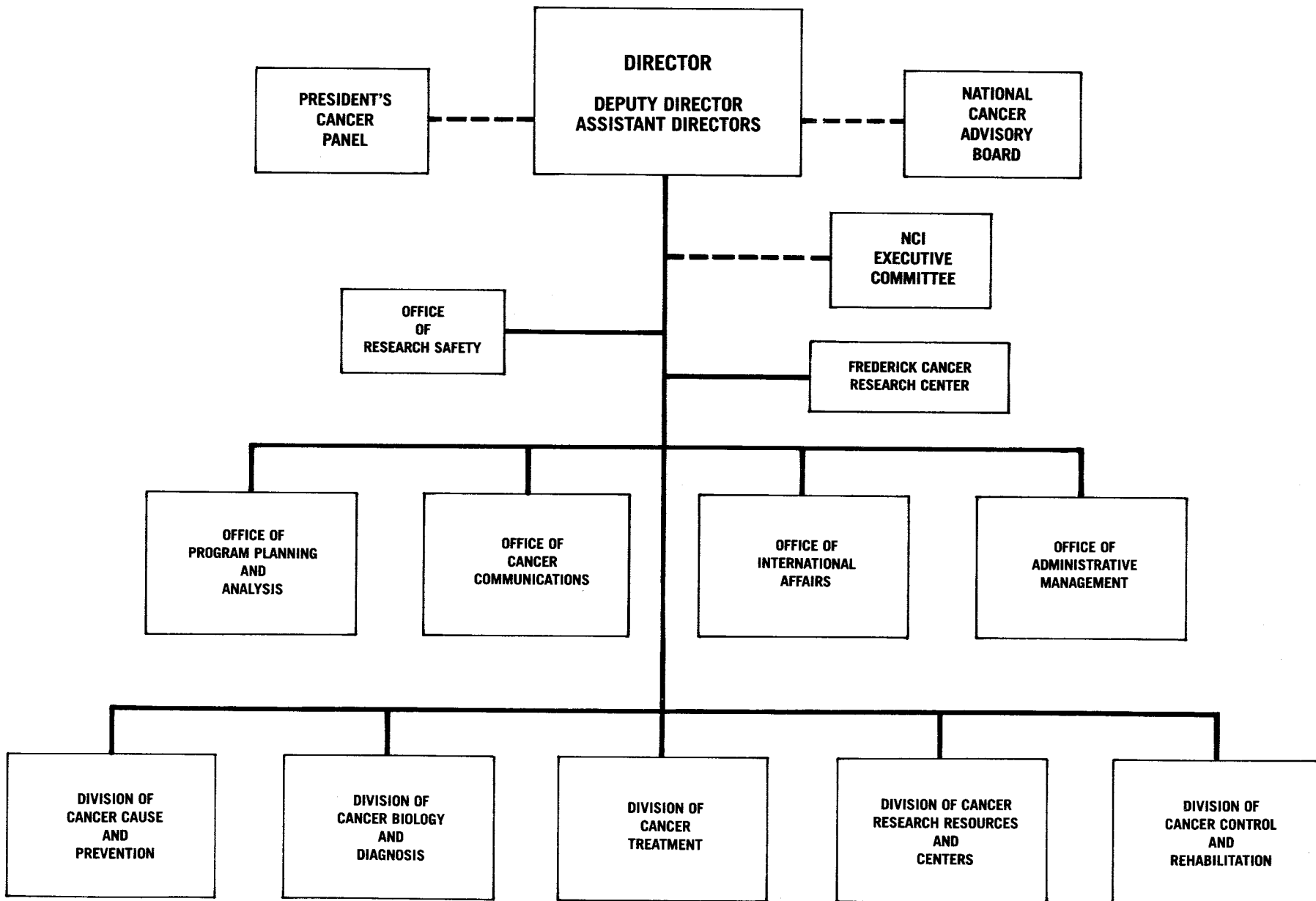
## ALTERNATES

- Dr. Gilbert S. Omenn  
Assistant Director for Human Resources  
Office of Science and Technology Policy  
Executive Office of The President  
Washington, D. C.
- Dr. F. Kash Mostofi  
Armed Forces Institute of Pathology  
Washington, D. C.
- Dr. Thomas F. Newcomb  
Veterans Administration Central Office  
Washington, D. C.

## EXECUTIVE SECRETARY

- Dr. Richard A. Tjalma  
National Cancer Institute  
Bethesda, Maryland

# NATIONAL CANCER INSTITUTE



**OFFICE OF THE DIRECTOR**  
**Dr. Arthur C. Upton, Director**  
**Dr. Guy R. Newell, Deputy Director**  
**Assistant Directors: Dr. Bayard H. Morrison III and Dr. Richard A. Tjalma**  
**Acting Assistant Director: Dr. John B. Moloney**  
**Acting Associate Director: Dr. William D. Terry**

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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**  
**Vacant**

**PROGRAM LIAISON BRANCH**  
**Vacant**

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

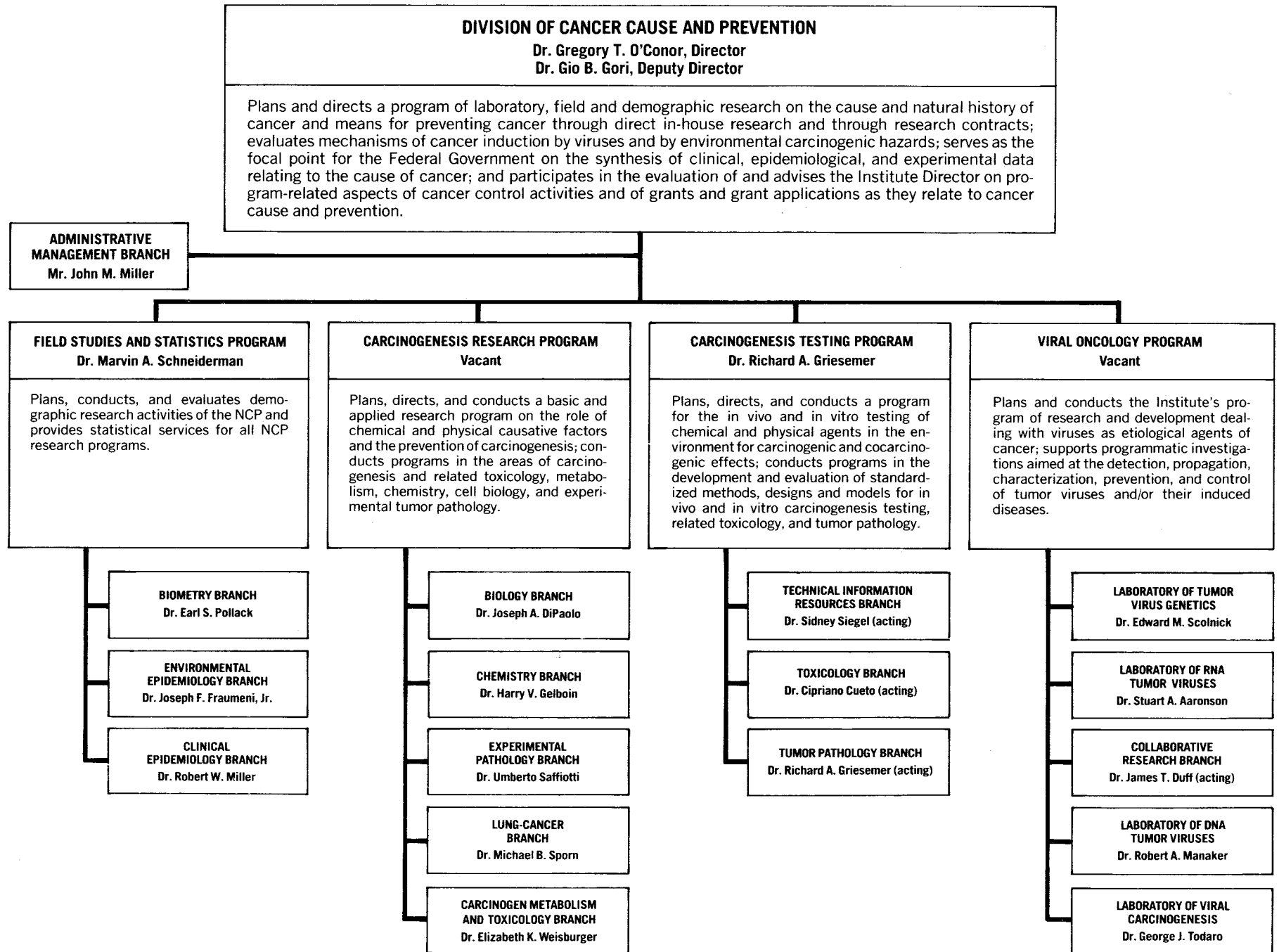
**ADMINISTRATIVE SERVICES BRANCH**  
**Mr. Thomas L. Kearns**

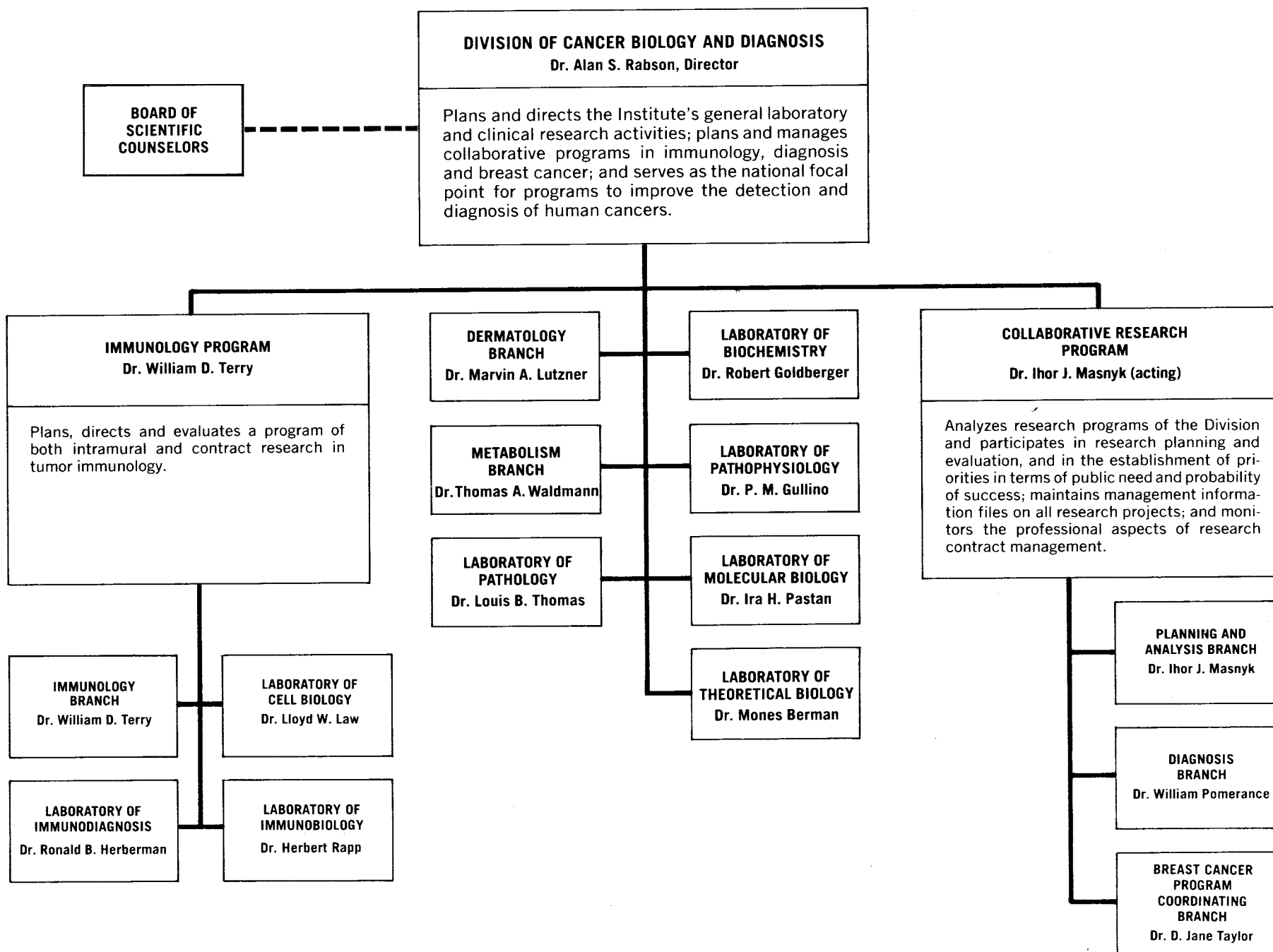
**FINANCIAL MANAGEMENT BRANCH**  
**Mr. Earle L. Browning**

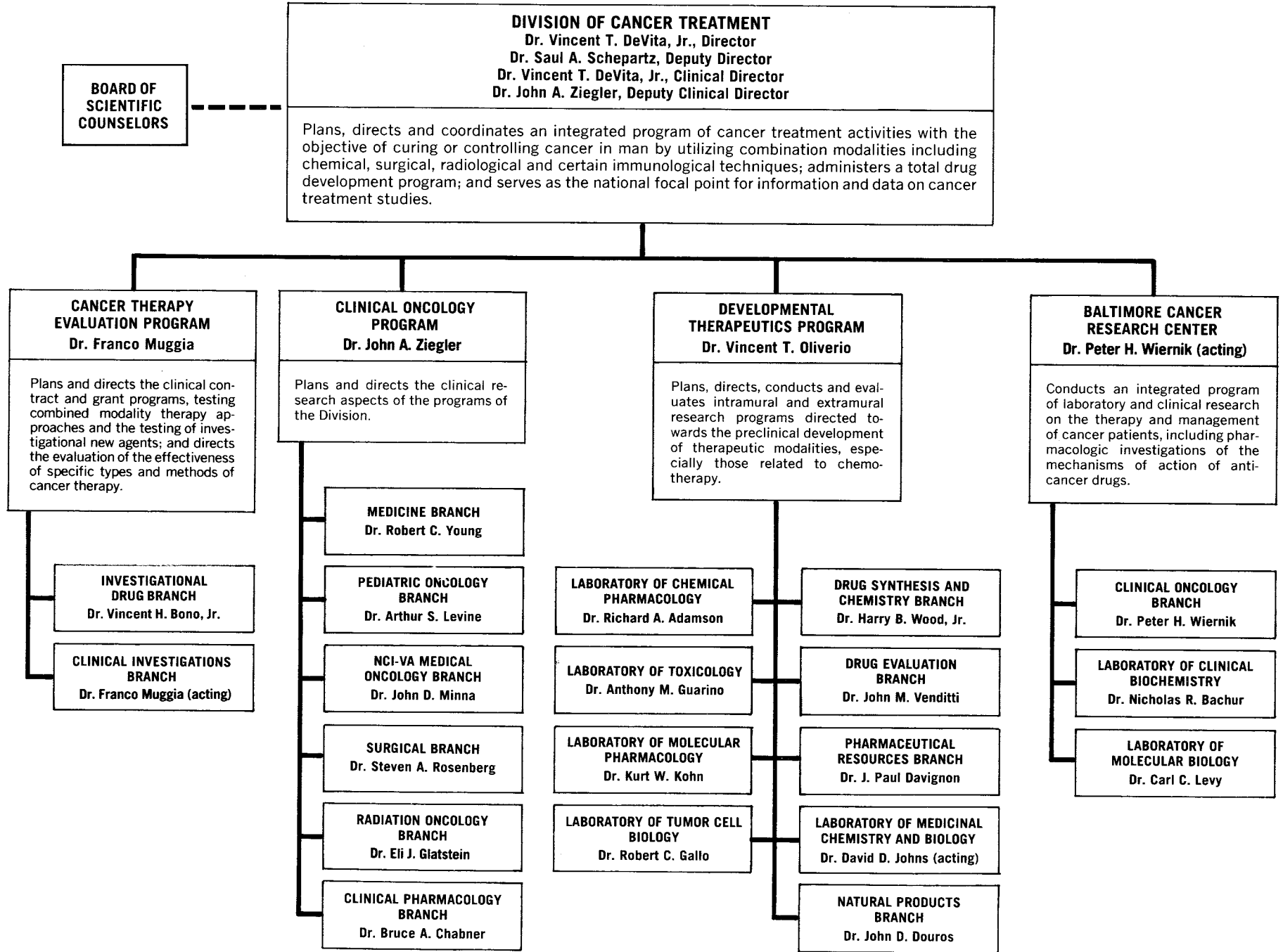
**PERSONNEL MANAGEMENT BRANCH**  
**Mrs. Elizabeth Stroud**

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

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







**DIVISION OF CANCER 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.

**BIOLOGICAL RESEARCH PROGRAMS**  
Vacant

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

**CAUSE AND PREVENTION BRANCH**  
Dr. Thaddeus J. Domanski

**CANCER BIOLOGY BRANCH**  
Dr. Barbara Sanford

**ORGAN SITE BRANCH**  
Dr. Samuel Price

**REVIEW AND REFERRAL BRANCH**  
Dr. David L. Joffes

**GRANTS ADMINISTRATION BRANCH**  
Mr. Leo F. Buscher, Jr.

**RESEARCH ANALYSIS AND EVALUATION BRANCH**  
Mr. Harry Y. Canter

**TRAINING AND EDUCATION PROGRAMS**  
Vacant

Plans, directs and manages the Fellowships Programs, the Research Career Development Awards Program, the Research Training Program and the Clinical Education Program; develops, reviews and coordinates plans and criteria for the implementation of these programs and evaluates effectiveness of these activities; and advises the Director of the Division, the National Cancer Advisory Board, and other scientific advisory bodies of activities and developments.

**RESEARCH MANPOWER BRANCH**  
Dr. Barney C. Lepovetsky

**CLINICAL MANPOWER BRANCH**  
Dr. Margaret H. Edwards

**CENTERS AND TREATMENT PROGRAMS**  
Dr. William A. Walter

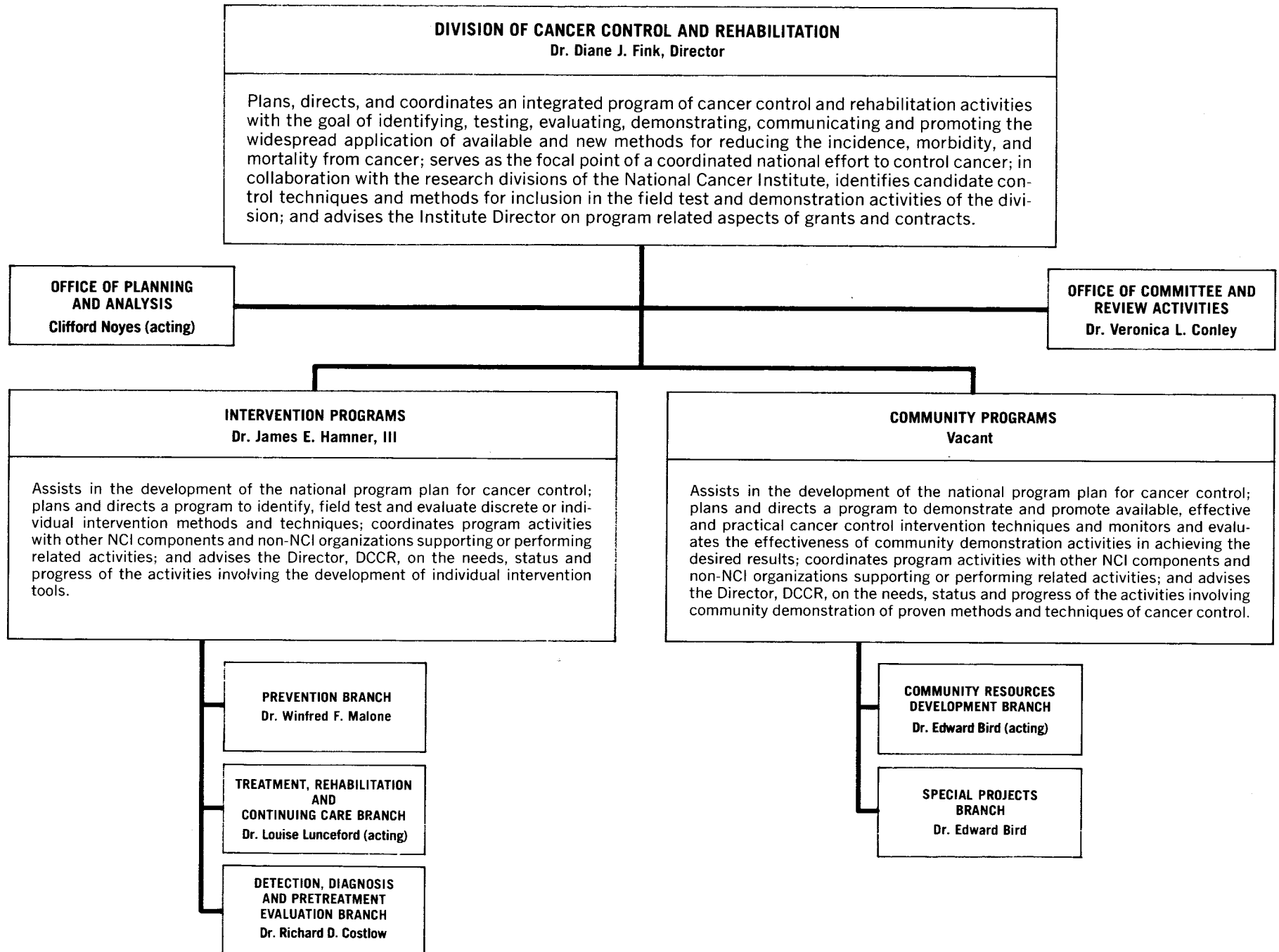
Plans and directs the Cancer Centers Program, the Research Facilities Construction Program, and the Diagnosis and Treatment Program; supplies data to review committees and the National Cancer Advisory Board; evaluates the need for and effectiveness of these programs; interprets programs to grant applicants, grantees, universities and research institutions; and advises the Director of the Division, the National Cancer Advisory Board and other advisory bodies of grants activities and developments.

**CANCER CENTERS BRANCH**  
Dr. William L. Roberson

**RESEARCH FACILITIES BRANCH**  
Dr. Donald G. Fox

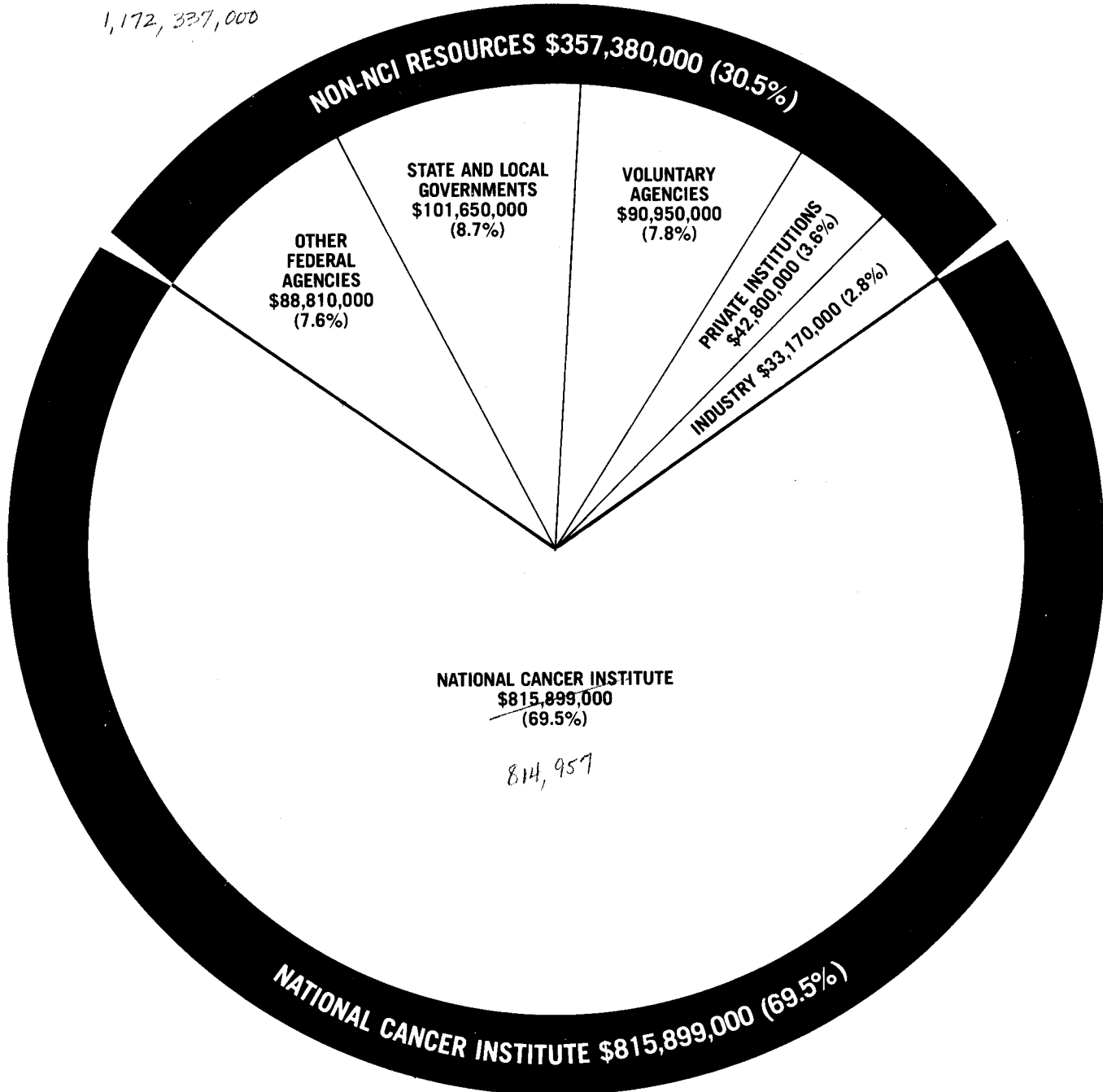
**DIAGNOSIS AND TREATMENT BRANCH**  
Dr. Roger H. Halterman





**TOTAL RESOURCES FOR THE NATIONAL  
CANCER PROGRAM—FISCAL YEAR 1977**

**TOTAL: \$1,173,279,000**  
*1,172,337,000*



NCI portion represents actual 1977 obligations. Non-NCI portions are estimated.

## NATIONAL CANCER PROGRAM STRATEGY

The essential and continuing goal of the National Cancer Institute (NCI) is the same today as it was when the Institute was created by an Act of Congress 40 years ago: To develop the means for reducing the incidence, morbidity, and mortality of cancer. The NCI continues to be the lead federal agency in cancer, responsible and accountable for the investment of progress toward that goal. However, the National Cancer Act of 1971 (amended in 1974) brought about some changes which have had significant impact on cancer research. The most obvious impact has been that the level of support for cancer research and control activities with public funds has increased four-fold since 1971. But the mandate from Congress to intensify and expand the cancer effort has had other implications beyond the increase of resources for the National Cancer Program.

The 1971 Act created the National Cancer Program (NCP) and stated that, in carrying out the NCP, the Director of the National Cancer Institute shall, with the advice of the National Cancer Advisory Board, “. . . plan and develop an expanded, intensified, and coordinated cancer research program encompassing the programs of the National Cancer Institute, related programs of the other research institutes, and other federal and nonfederal programs.” Thus, the Act not only provided the public with both a symbolic and operational entity with which to identify at the national level, but also brought about a greater spirit and degree of awareness, cooperation, and coordination among federal programs and between federal and nonfederal programs than had existed before the creation of the National Cancer Program.

The National Cancer Program has three major program components:

- Research
- Control
- Support.

The first two components encompass the scientific and technical activities, while the support component includes those activities needed to carry out the research and control efforts effectively (e.g., construction, manpower development, and information activities).

The addition of cancer control responsibilities to NCI's research responsibilities and through the specific emphasis placed on the expansion of comprehensive cancer centers as focal points for research, teaching, and demonstration, served to further emphasize the axiom that the ultimate purpose of disease research is to produce results that can be translated into improved methods for the prevention and treatment of disease in people, and that the National Cancer Program would invest significant effort and resources in this area.

One important characteristic of the NCP since its inception has been the extensive and continuous participation of the biomedical community in the major planning efforts of the NCI. Beginning with the development of the first edition of the National Cancer Program Plan in 1972, periodic planning sessions have been held for the purpose of revising and updating the major recommendations for research and control activities.

The general character of the Program has become increasingly the product of a more extensive and frequent interaction among Congress, the public, the biomedical community, and federal agencies. In particular, the consistent and active roles of the President's Cancer Panel and the National Cancer Advisory Board have established a model for effective and productive relationships between national advisory committees and the federal agency.

## NUMBER OF DEATHS FOR THE FIVE LEADING CANCER SITES BY AGE GROUP AND SEX—1975

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> 63,413	<b>Breast</b> 32,158	Leukemia 648	Leukemia 505	Leukemia 746	Breast 540	Lung 10,070	Breast 8,344	Lung 40,924	Breast 15,867	Lung 12,226	Colon & Rectum 11,174
<b>Colon &amp; Rectum</b> 23,846	<b>Colon &amp; Rectum</b> 25,589	Brain & CNS 420	Brain & CNS 333	Brain & CNS 426	Leukemia 522	Colon & Rectum 2,496	Lung 4,102	Colon & Rectum 12,700	Colon & Rectum 11,830	Prostate 10,835	Breast 7,404
<b>Prostate</b> 19,427	<b>Lung</b> 18,627	Lympho & Reticulo Sarcoma 64	Bone 73	Testis 402	Brain & CNS 324	Pancreas 1,326	Colon & Rectum 2,430	Prostate 8,299	Lung 10,851	Colon & Rectum 8,426	Lung 3,582
<b>Pancreas</b> 10,606	<b>Uterus</b> 11,153	Bone 54	Kidney 48	Hodgkin's Disease 391	Uterus 303	Brain & CNS 1,254	Uterus 2,397	Pancreas 6,216	Ovary 5,690	Stomach 3,037	Pancreas 3,367
<b>Stomach</b> 8,955	<b>Ovary</b> 10,465	Kidney 44	Connective Tissue 35	Melanoma of skin 241	Hodgkin's Disease 230	Stomach 1,057	Ovary 2,371	Stomach 4,799	Uterus 5,515	Pancreas 3,031	Uterus 2,935

SOURCE: National Center for Health Statistics, 1975.

## RELATIONSHIP OF CANCER TO LEADING CAUSES OF DEATH IN THE UNITED STATES—1975

RANK	CAUSE OF DEATH	NUMBER OF DEATHS	DEATH RATE PER 100,000 POPULATION	PERCENT OF TOTAL DEATHS
	<b>All Causes</b>	<b>1,892,879</b>	<b>888.9</b>	<b>100.0</b>
1	Diseases of Heart	716,215	336.2	37.8
2	<b>Cancer</b>	<b>365,693</b>	<b>171.7</b>	<b>19.3</b>
3	Stroke	194,038	91.1	10.3
4	Accidents	103,030	48.4	5.4
5	Influenza and Pneumonia	55,664	26.1	2.9
6	Diabetes Mellitus	35,230	16.5	1.9
7	Cirrhosis of Liver	31,623	14.8	1.7
8	Arteriosclerosis	28,887	13.6	1.5
9	Suicide	27,063	12.7	1.4
10	Certain Diseases of Infancy	26,616	12.5	1.4
11	Homicide	21,310	10.0	1.1
12	Emphysema	18,795	8.8	1.0
13	Congenital Anomalies	13,245	6.2	0.7
14	Nephritis and Nephrosis	8,072	3.8	0.4
15	Ulcers	6,743	3.2	0.4
	Other and Ill-Defined	240,655	113.3	12.8

SOURCE: National Center for Health Statistics, 1975.

# ESTIMATED CANCER DEATHS AND NEW CASES BY SEX AND SITE—1978<sup>1</sup>

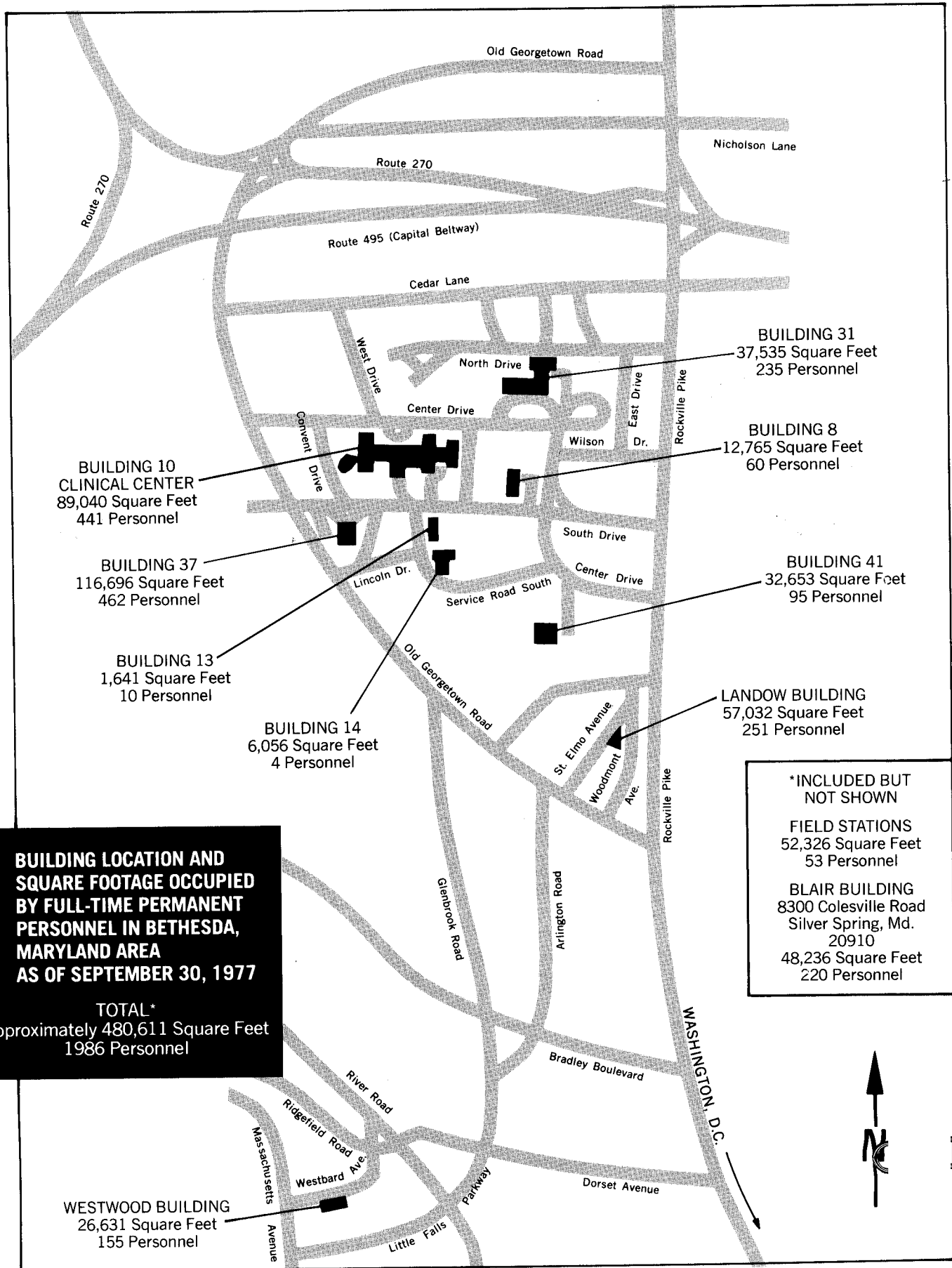
SITE	ESTIMATED DEATHS			ESTIMATED NEW CASES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
All Sites	390,000	213,500	176,500	700,000 <sup>1</sup>	352,000 <sup>1</sup>	348,000 <sup>1</sup>
Buccal Cavity & Pharynx (Oral)	8,400	5,950	2,450	24,400	17,400	7,000
Lip	175	150	25	4,300	3,900	400
Tongue	2,000	1,400	600	4,600	3,200	1,400
Salivary Gland	650	400	250	8,800	5,300	3,500
Floor of Mouth	525	400	125			
Other & Unspecified Mouth	1,250	800	450			
Pharynx	3,800	2,800	1,000	6,700	5,000	1,700
Digestive Organs	105,500	55,500	50,000	172,600	89,400	83,200
Esophagus	7,100	5,200	1,900	7,700	5,700	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
Large Intestine (Colon- Rectum ) Rectum)	42,000	19,700	22,300	71,000	32,000	39,000
Liver & Biliary Passages	9,900	5,400	4,500	31,000	17,000	14,000
Pancreas	9,600	4,600	5,000	11,800	5,800	6,000
Other & Unspecified Digestive	20,000	10,900	9,100	21,900	12,000	9,900
Other & Unspecified Digestive	1,600	750	850	4,000	1,700	2,300
Respiratory System	97,150	74,300	22,850	113,900	88,900	25,000
Larynx	3,350	2,900	450	9,300	8,200	1,100
Lung	92,400	70,500	21,900	102,000	79,000	23,000
Other & Unspecified Respiratory	1,400	900	500	2,600	1,700	900
Bone, Tissue and Skin	9,000	5,100	3,900	16,100	8,100	8,000
Bone	1,800	1,000	800	1,900	1,100	800
Connective Tissue	1,600	800	800	4,600	2,400	2,200
Skin	5,600 <sup>4</sup>	3,300	2,300	9,600 <sup>2</sup>	4,600 <sup>2</sup>	5,000 <sup>2</sup>
Breast	34,100	300	33,800	90,700	700	90,000
Genital Organs	44,100	21,600	22,500	131,000	61,800	69,200
Cervix, Invasive } Uterus	7,400	—	7,400	20,000 <sup>3</sup>	—	20,000 <sup>3</sup>
Corpus, Endometrium }	3,300	—	3,300	28,000	—	28,000
Ovary	10,800	—	10,800	17,000	—	17,000
Prostate	20,600	20,600	—	57,000	57,000	—
Other & Unspecified Genital, Male	1,000	1,000	—	4,800	4,800	—
Other & Unspecified Genital, Female	1,000	—	1,000	4,200	—	4,200
Urinary Organs	17,300	11,500	5,800	45,100	31,400	13,700
Bladder	9,900	6,900	3,000	30,000	22,000	8,000
Kidney & Other Urinary	7,400	4,600	2,800	15,100	9,400	5,700
Eye	400	200	200	1,700	800	900
Brain & Central Nervous System	8,900	4,900	4,000	11,000	6,000	5,000
Endocrine Glands	1,550	550	1,000	9,300	2,700	6,600
Thyroid	1,100	300	800	8,300	2,200	6,100
Other Endocrine	450	250	200	1,000	500	500
Leukemia	15,100	8,500	6,600	21,500	12,000	9,500
Lymphomas including Multiple Myeloma	21,400	11,500	9,900	33,400	18,200	15,200
Lymphosarcoma & Reticulosarcoma	6,800	3,600	3,200	10,800	5,800	5,000
Hodgkin's Disease	2,600	1,500	1,100	7,400	4,300	3,100
Multiple Myeloma	5,800	2,900	2,900	8,300	4,200	4,100
Other Lymphomas	6,200	3,500	2,700	6,900	3,900	3,000
All other & Unspecified Sites	27,100	13,600	13,500	29,300	14,600	14,700

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 (over 40,000 new cases) and non-melanoma skin cancers (300,000 new cases) not included in totals.

<sup>2</sup> Melanoma only. <sup>3</sup> Invasive cancer only. <sup>4</sup> Melanoma 4,000, other skin, 1,600.

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



**BUILDING 10  
CLINICAL CENTER**  
89,040 Square Feet  
441 Personnel

**BUILDING 37**  
116,696 Square Feet  
462 Personnel

**BUILDING 13**  
1,641 Square Feet  
10 Personnel

**BUILDING 14**  
6,056 Square Feet  
4 Personnel

**BUILDING 31**  
37,535 Square Feet  
235 Personnel

**BUILDING 8**  
12,765 Square Feet  
60 Personnel

**BUILDING 41**  
32,653 Square Feet  
95 Personnel

**LANDOW BUILDING**  
57,032 Square Feet  
251 Personnel

**\*INCLUDED BUT NOT SHOWN**

**FIELD STATIONS**  
52,326 Square Feet  
53 Personnel

**BLAIR BUILDING**  
8300 Colesville Road  
Silver Spring, Md.  
20910  
48,236 Square Feet  
220 Personnel

**BUILDING LOCATION AND  
SQURE FOOTAGE OCCUPIED  
BY FULL-TIME PERMANENT  
PERSONNEL IN BETHESDA,  
MARYLAND AREA  
AS OF SEPTEMBER 30, 1977**

**TOTAL\***  
Approximately 480,611 Square Feet  
1986 Personnel

**WESTWOOD BUILDING**  
26,631 Square Feet  
155 Personnel

# 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

<b>A.</b> Civil Service (tenured)	Appropriate advanced education, experience and knowledge needed by NCI to conduct its programs	Minimum starting: Ph.D. – \$26,022 Physicians – \$33,825 Maximum: \$47,500	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

<b>A.</b> Special Appointment of Experts and Consultants (non-tenured appointment which can be extended up to 4 years)	Applicants shall possess outstanding experience and ability as to justify recognition as authorities in their particular fields of activity.	Equivalent to the salary range of GS-13 through GS-18  Maximum: \$47,500	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>			
<b>A.</b> 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>B.</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
<b>C.</b> 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
<b>D.</b> 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. STAFF FELLOWSHIPS

<b>A.</b> Staff Fellowships (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 \$19,740-26,175 Other Doctorates \$15,120-25,528 Senior Staff Fellows Physicians \$22,365-35,559 Other Doctorates \$19,740-28,623	Contact Director or Laboratory Chief in area of interest or the NCI Personnel Office.
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**V. VISITING PROGRAM (limited tenure)<sup>3</sup>**

POSITION	ELIGIBILITY	ANNUAL SALARY	MECHANISM OF ENTRY
<b>A.</b> Visiting Fellow (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.</b> Visiting Associates (1 year with renewals to end of project)	3+ years postdoctoral education with appropriate knowledge needed by NCI	\$15,090-23,734	Contact Director or Laboratory Chief in area of interest.
<b>C.</b> Visiting Scientist (duration of project)	6+ years postdoctoral education with appropriate unusual experience and knowledge needed.	\$21,883-208(g)	Contact Director or Laboratory Chief in area of interest.

**VI. CIVIL SERVICE SUMMER EMPLOYMENT PROGRAMS**

<b>A.</b> Summer Employment Examination Program	U. S. citizen, 18 years of age or older (16 if high school graduate).	GS-1-GS-4 Grade is based on educ. and/or exper.	For clerical positions, must take the Civil Service Summer Employment Exam. Apply to NCI prior to May 1. No exam is required for non-clerical pos. Applicants must apply to NCI by April 15.
<b>B.</b> Summer Graduate Program	College graduate, graduate student, faculty member, equivalent experience	GS-5-GS-12 Grade is based on educ. and/or exper.	Apply to NCI personnel office by April 15. No exam. required.
<b>C.</b> Stay-In-School Program	U. S. citizen, high school or college student, 16-21 yrs. of age who need earnings from employment to continue in school.	Salary is commensurate with duties assigned and qualifications.	Apply to NCI personnel Office. No deadline required for applying; however, no new appointments are made between May 1 and Aug. 30.
<b>D.</b> Summer Aid Program	U. S. citizen, 16-21 yrs. of age, economically disadvantaged.	Federal minimum wage.	If live in Md., apply to the Md. State Employment Service and if live in D. C., apply to the D. C. Manpower Administration.
<b>E.</b> The Federal Junior Fellowship Program	U. S. citizen and graduating high school senior in a public or private school in the Metro. Wash., D. C. area. Must be in upper 10% of grad. class, have applied for admission to an accredited college or univ. and need financial assistance to attend school.	GS-1-GS-4	Nominations are submitted directly to the C. S. Commission by high school principals or counselors.
<b>F.</b> Federal Summer Intern Program	College student who has completed 2 or more years and stands in upper 1/3 of class or grad. student who is in upper 1/2 of class	GS-4-GS-11	NIH requests nominations from colleges that have expressed an interest in this Program to the C.S.C.

**VII. SPECIAL PROGRAMS**

<b>A.</b> Research Fellow sponsored by organization other than NIH, PHS	Determined by sponsoring organization.	Established by sponsoring 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.</b> COSTEP Program (operates year-round) Maximum 120 days per 12 month period	U. S. Citizen. Must have completed one year of study in a medical, dental, or veterinary school; or a minimum of two years of baccalaureate program in a health-related field such as engineering, nursing, pharmacy, etc. May be enrolled in a masters or doctoral program in a health-related field (designated by the Assistant Secretary for Health). 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, Rockville, Maryland 20857.
<b>C.</b> Fogarty International Scholars	International reputation, productivity, demonstrated ability in biomedical field	\$30,000 per annum	Recommendation to Fogarty Center by Institute Director or Scientist. Contact Director in area of interest.

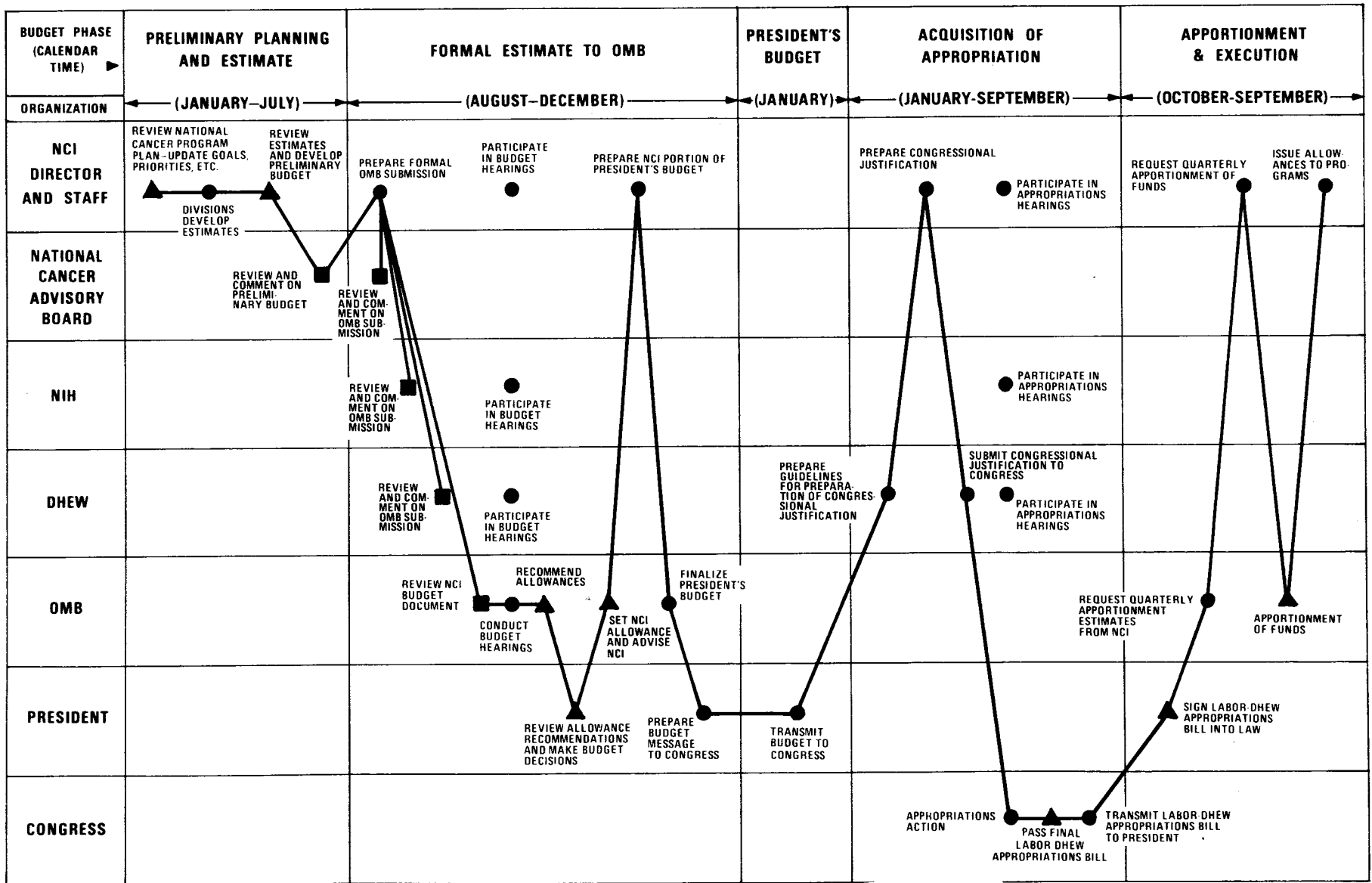
<sup>1</sup> Does not necessarily indicate that positions are currently available at the National Cancer Institute.

<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

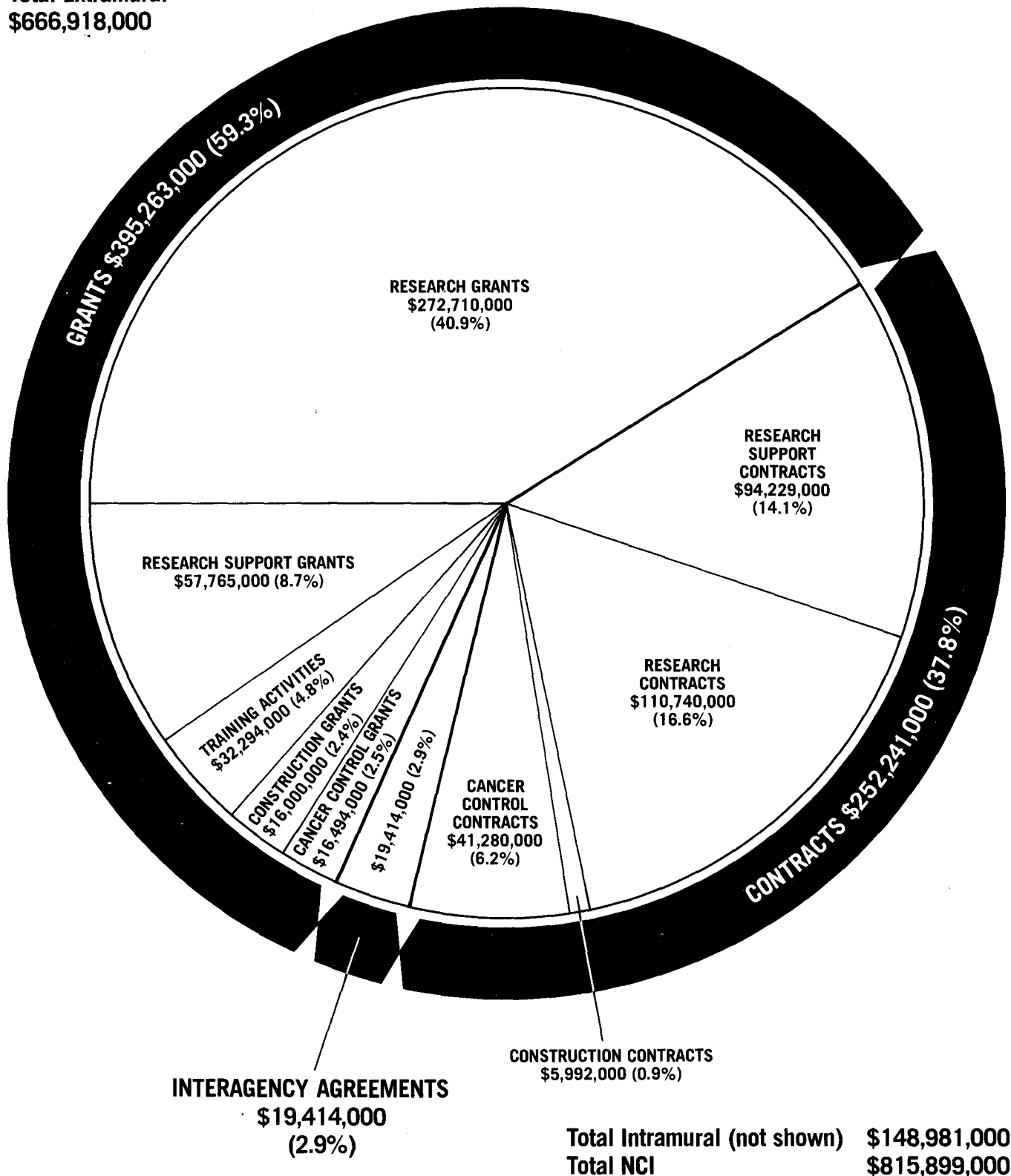


NOTE: SIMULTANEOUS ACTIVITIES BY MORE THAN ONE ORGANIZATION INDICATE COOPERATIVE EFFORTS

● OPERATION    ■ REVIEW    ▲ DECISION

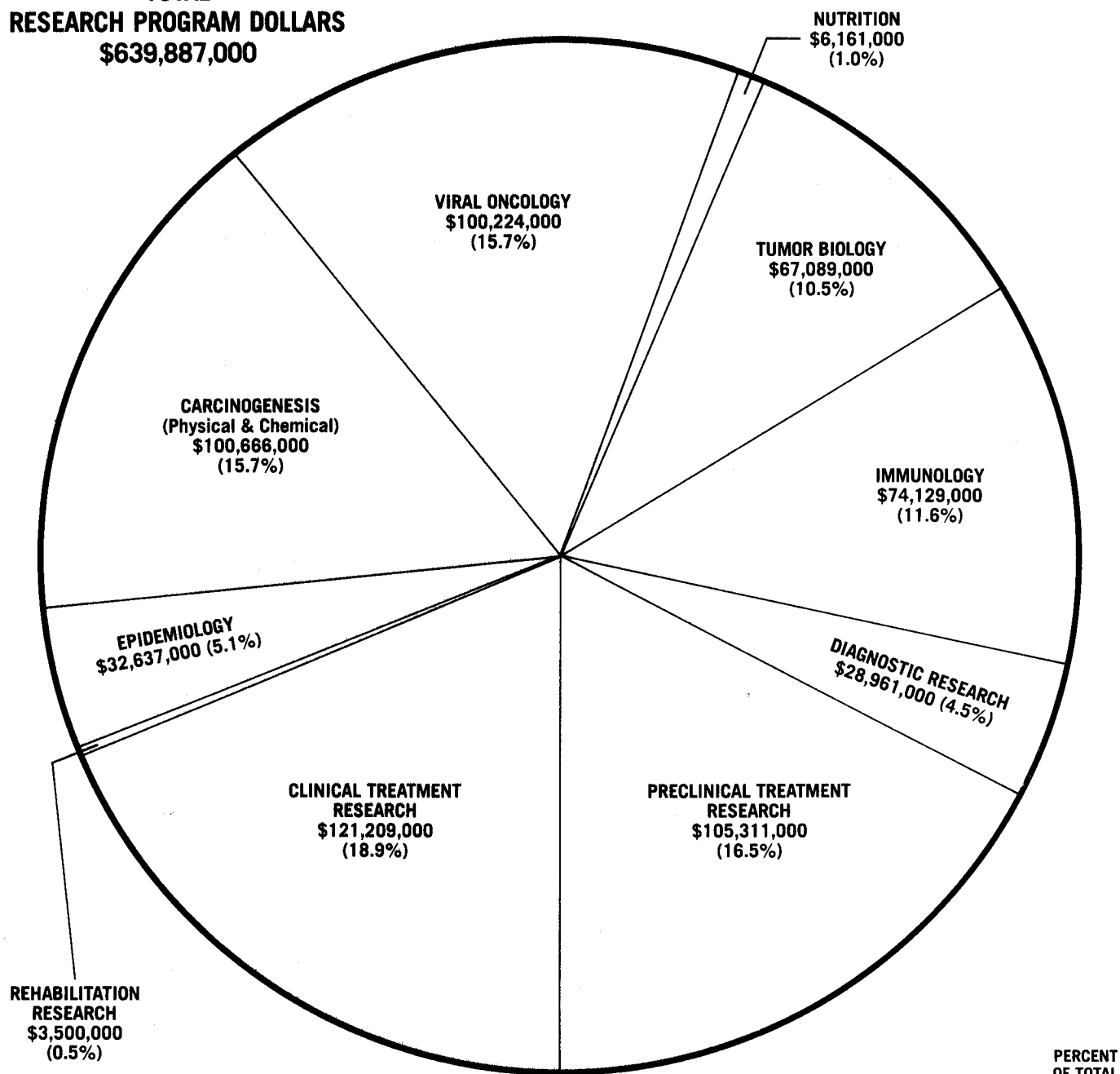
# NCI EXTRAMURAL FUNDS — FISCAL YEAR 1977

Total Extramural  
\$666,918,000



# NCI RESEARCH PROGRAMS — FISCAL YEAR 1977

**TOTAL  
RESEARCH PROGRAM DOLLARS  
\$639,887,000**

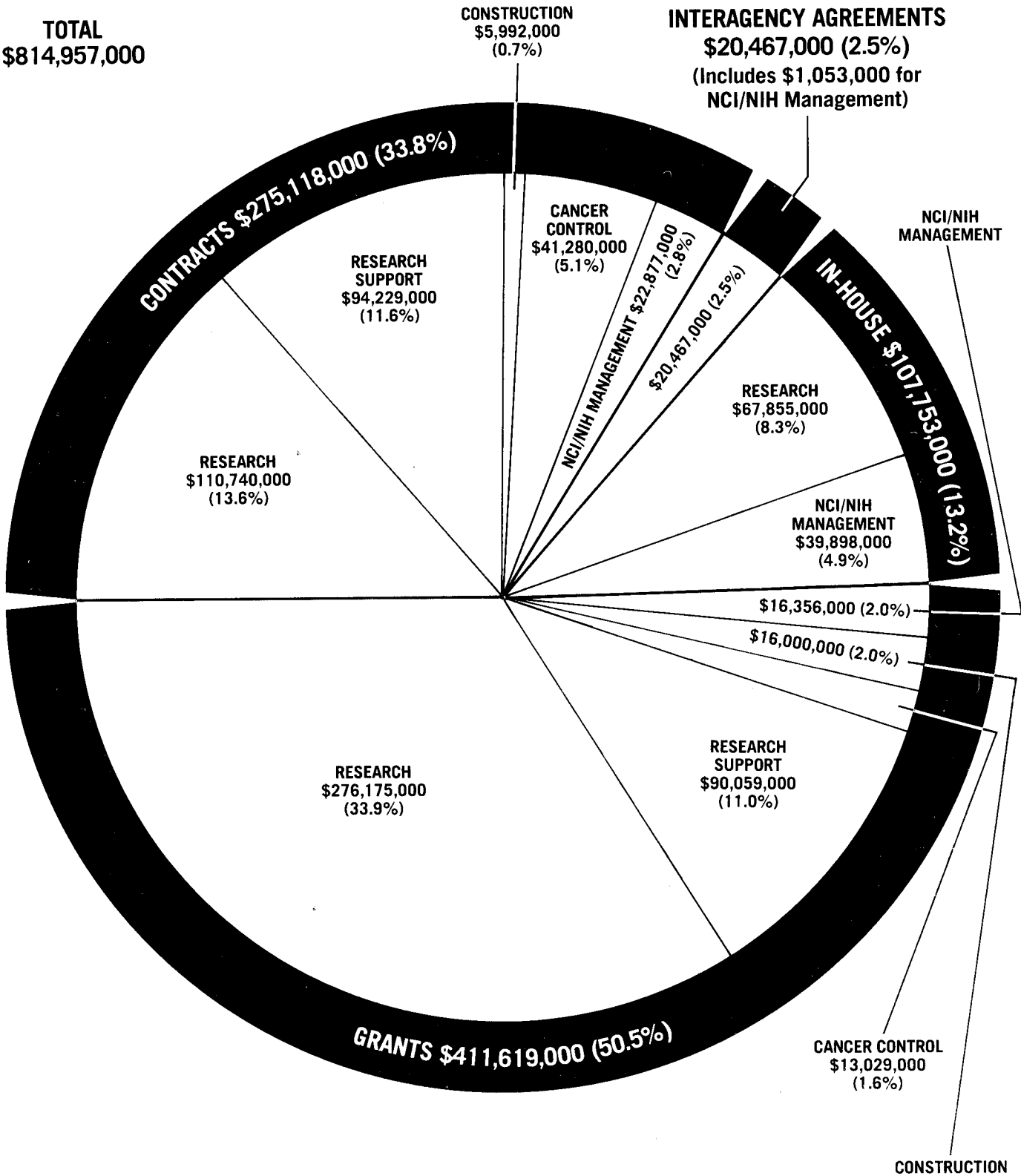


Research Programs	Dollars	PERCENT OF TOTAL
Research Programs	\$639,887,000	78.5
Resource Development:		
Cancer Centers Support	59,372,000	7.3
Research Manpower Development	33,766,000	4.2
Construction	22,967,000	2.8
Cancer Control	58,965,000	7.2
<b>Total NCI*</b>	<b>\$814,957,000</b>	<b>100.0</b>

\*Excludes reimbursables of \$942,000.

# TOTAL NCI DOLLARS BY MECHANISMS — FISCAL YEAR 1977

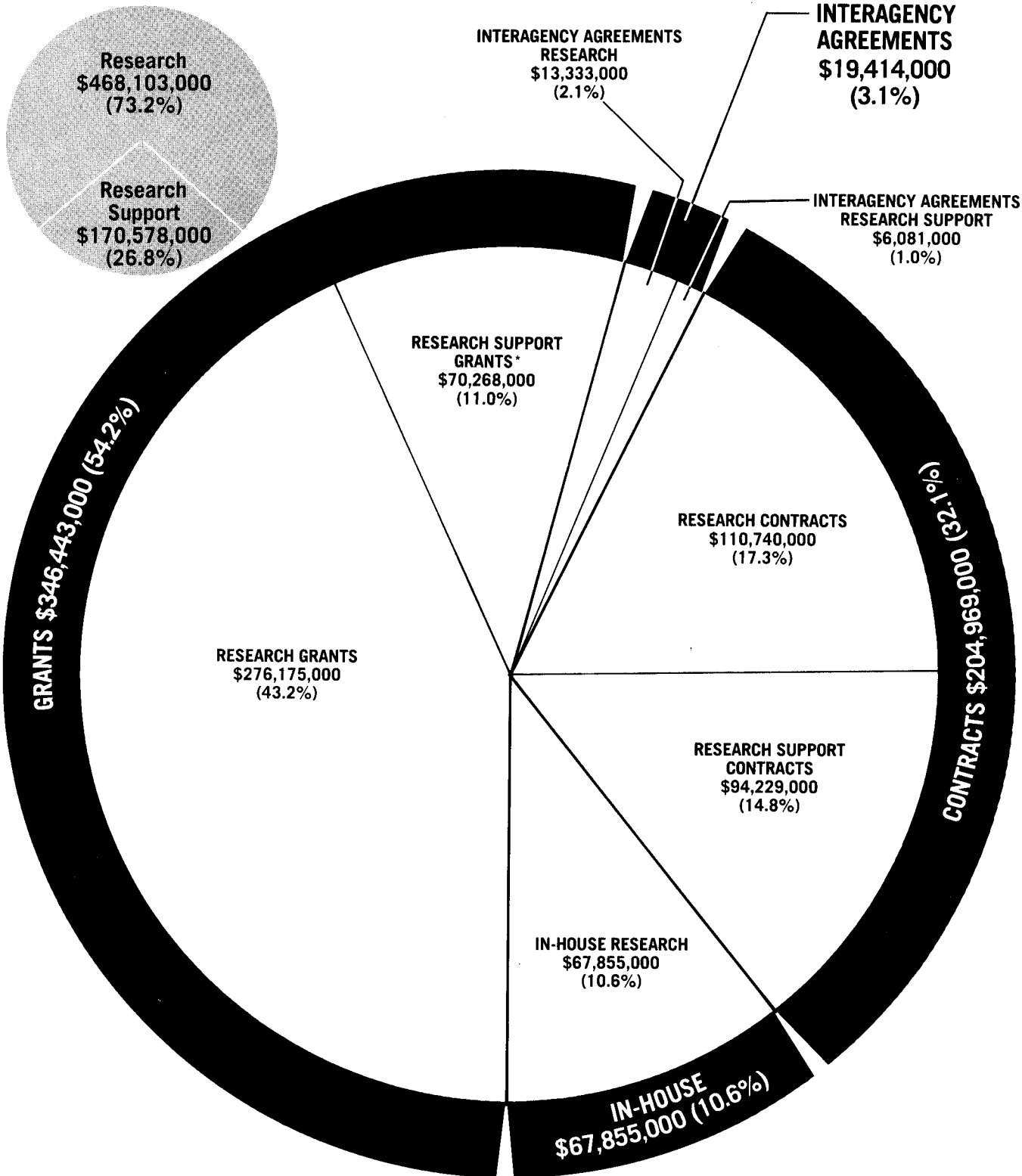
**TOTAL**  
\$814,957,000



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

# COMPARISON OF RESEARCH/RESEARCH SUPPORT – FISCAL YEAR 1977

TOTAL: \$638,681,000



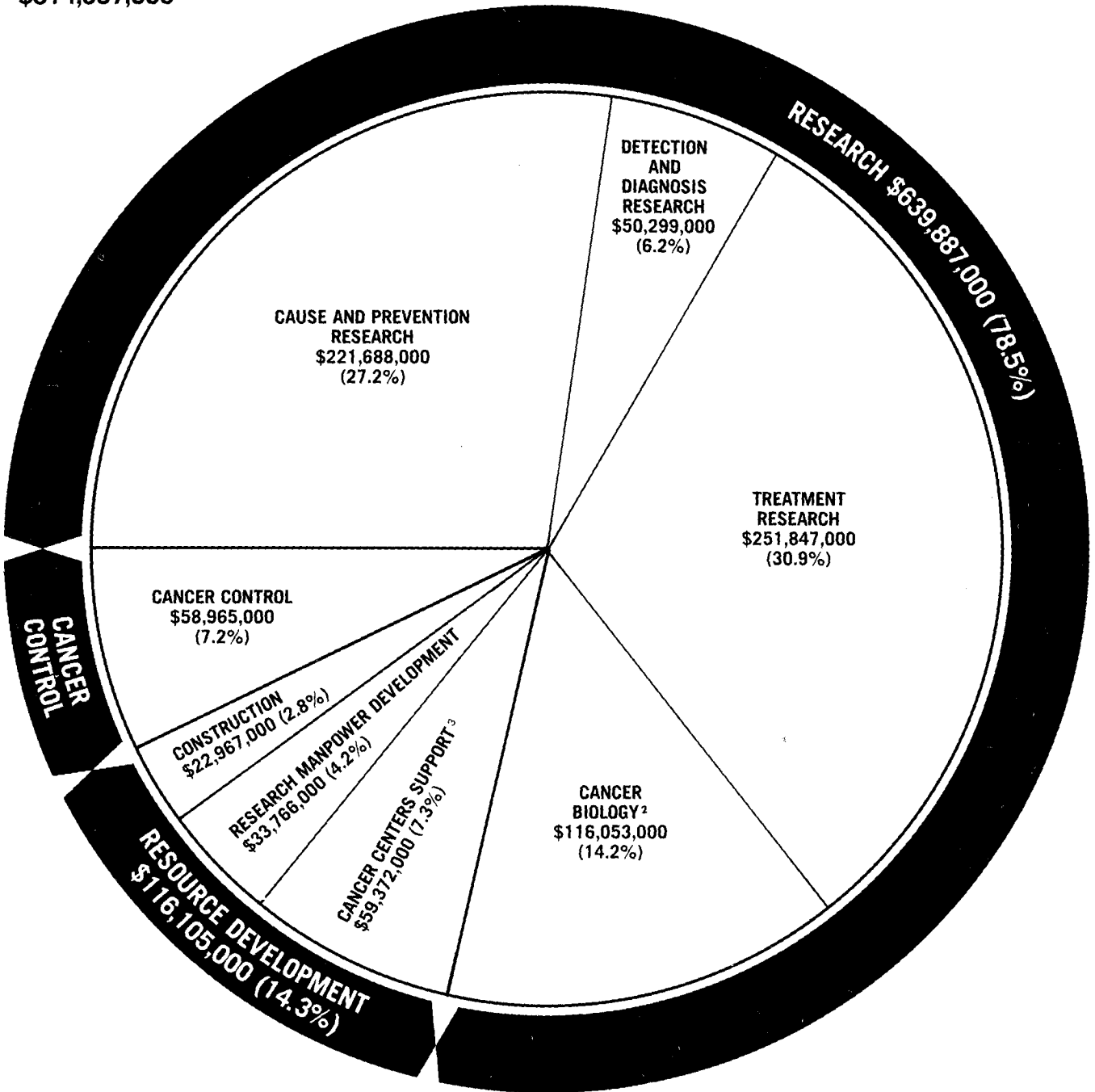
NOTE: Excludes Fellowships and Training Grants, Construction, Cancer Control and NCI/NIH Management Fund.  
 \*Research Support Grants include the Clinical Education Program and the Research Career Program.

# NCI 1977 BUDGET BY ORGANIZATION

(THOUSANDS OF DOLLARS)

	AMOUNT	ACTIVITY	PERCENT OF TOTAL	
<b>DIVISION OF CANCER RESEARCH RESOURCES AND CENTERS</b>				
\$353,698	\$139,156	Regular Program	17.1	43.4%
	81,211	Program Projects	10.0	
	55,132	Core Support	6.8	
	1,199	Planning Grants	0.1	
	1,434	Clinical Center Patient Data System	0.2	
	3,245	Radiation Development	0.4	
	14,711	Task Forces (Organ Sites)	1.8	
	8,996	Clinical Education Program	1.1	
	3,507	Career Program	0.4	
	18,236	Fellowships	2.2	
	1,555	Training Grants	0.2	
	16,000	Construction	2.0	
	9,316	Review and Approval	1.1	
<b>DIVISION OF CANCER BIOLOGY AND DIAGNOSIS</b>				
\$62,290	49,699	Laboratory and Clinical Research	6.1	7.6%
	12,591	Task Forces	1.5	
<b>DIVISION OF CANCER TREATMENT</b>				
\$128,302	127,219	Cancer Therapy	15.6	15.7%
	1,083	Task Forces	0.1	
<b>DIVISION OF CANCER CAUSE AND PREVENTION</b>				
\$144,919	13,113	Office of the Division Director	1.6	17.8%
	57,436	Virus Cancer Program	7.0	
	51,148	Carcinogenesis	6.3	
	17,541	Field Studies and Statistics	2.2	
	5,681	Task Forces	0.7	
<b>DIVISION OF CANCER CONTROL AND REHABILITATION</b>				
\$60,482	60,482	Cancer Control	7.4	7.4%
<b>OFFICE OF THE DIRECTOR</b>				
\$66,208	29,759	Program Direction and Supporting Services	3.7	8.1%
	3,640	Basic Science Program—FCRC	0.4	
	5,992	Construction Contracts	0.7	
	26,817	Management Fund	3.3	
	<b>\$815,899</b>	<b>TOTAL</b>	<b>100.0</b>	

TOTAL DOLLARS<sup>1</sup>  
\$814,957,000



<sup>1</sup> Excludes reimbursables of \$942,000.

<sup>2</sup> Includes research which has application to all research thrusts, i.e., cause and prevention research, detection and diagnosis research, and treatment research.

<sup>3</sup> Planning and core support of centers.

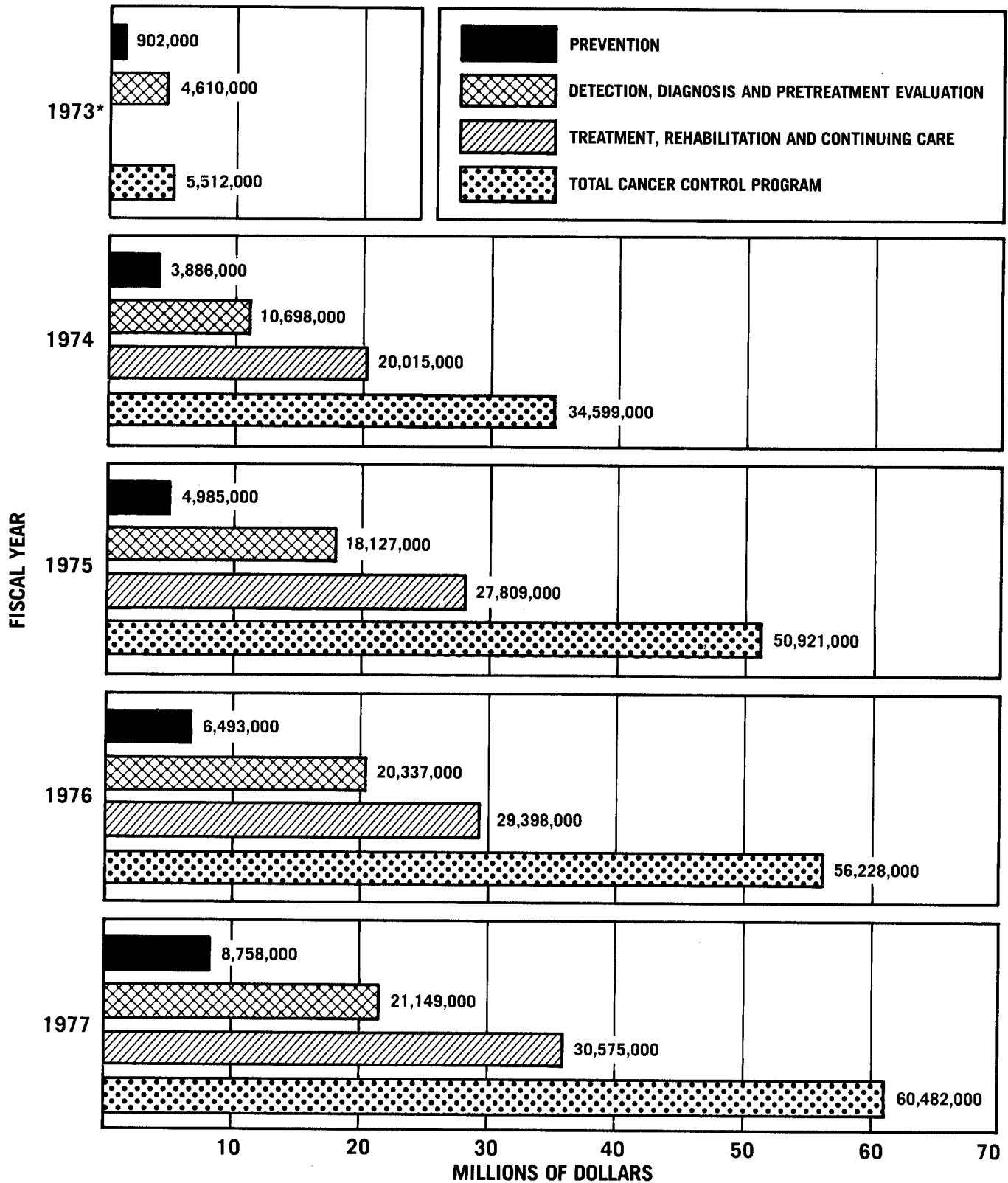
# NATIONAL CANCER INSTITUTE 1979 CONGRESSIONAL JUSTIFICATION

(THOUSANDS OF DOLLARS)

	1977 ACTUAL	PERCENT OF TOTAL	1978 ESTIMATE	PERCENT OF TOTAL	1979 ESTIMATE	PERCENT OF TOTAL
<b>GROUP I – INVESTIGATOR INITIATED</b>						
Regular Research Grants .....	\$139,156	22.8	\$152,316	23.9	\$159,342	25.1
Clinical Cooperative Groups .....	27,121	4.4	28,181	4.4	28,181	4.4
Program Projects .....	81,211	13.3	86,423	13.6	88,040	13.9
Radiation Development Program .....	3,245	0.5	4,150	0.7	4,075	0.7
Clinical Education Program .....	8,996	1.5	9,450	1.5	9,525	1.5
Research Career Program .....	3,507	0.6	4,017	0.7	3,327	0.5
Fellowships .....	18,236	3.0	19,886	3.1	20,410	3.2
Training Grants .....	1,555	0.3	277	—	—	—
Task Forces .....	14,711	2.4	15,138	2.4	15,675	2.5
Cancer Centers—Core Support .....	55,132	9.1	59,900	9.4	60,351	9.5
<b>SUBTOTAL</b>	<b>352,870</b>	<b>57.9</b>	<b>379,738</b>	<b>59.7</b>	<b>388,926</b>	<b>61.3</b>
<b>GROUP II – CO-INITIATED</b>						
Cancer Research Emphasis Grants (CREG) .....	7,266	1.2	10,164	1.6	9,496	1.5
Research Contracts .....	110,740	18.2	115,271	18.1	111,003	17.5
<b>SUBTOTAL</b>	<b>118,006</b>	<b>19.4</b>	<b>125,435</b>	<b>19.7</b>	<b>120,499</b>	<b>19.0</b>
<b>GROUP III – NCI/NCP INITIATED</b>						
Research Support Contracts .....	94,229	15.5	89,997	14.1	88,876	14.0
Interagency Agreements .....	19,414	3.2	22,757	3.6	21,912	3.5
<b>SUBTOTAL</b>	<b>113,643</b>	<b>18.7</b>	<b>112,754</b>	<b>17.7</b>	<b>110,788</b>	<b>17.5</b>
<b>GROUP IV – OTHER RESOURCES</b>						
Planning Grants .....	1,199	0.2	550	0.1	280	—
Centralized Cancer Patient Data System .....	1,434	0.2	1,450	0.2	1,720	0.3
Construction Grants .....	16,000	2.6	12,000	1.9	9,000	1.4
Construction Contracts .....	5,992	1.0	4,500	0.7	3,000	0.5
<b>SUBTOTAL</b>	<b>24,625</b>	<b>4.0</b>	<b>18,500</b>	<b>2.9</b>	<b>14,000</b>	<b>2.2</b>
<b>TOTAL – GROUPS I THROUGH IV</b>	<b>609,144</b>	<b>100.0</b>	<b>636,427</b>	<b>100.0</b>	<b>634,213</b>	<b>100.0</b>
<b>PERCENT OF TOTAL NCI BUDGET</b>		<b>74.8</b>		<b>73.0</b>		<b>72.2</b>
In-House Research .....	67,855	8.3	78,932	9.0	80,067	9.1
Management and Support .....	80,184	9.8	95,601	11.0	103,389	11.7
(NIH Management Fund) .....	(26,817)	(3.3)	(31,963)	(3.7)	(34,558)	(3.9)
Cancer Control—Grants and Contracts .....	57,774	7.1	61,310	7.0	61,133	7.0
<b>SUBTOTAL</b>	<b>205,813</b>	<b>25.2</b>	<b>235,843</b>	<b>27.0</b>	<b>244,589</b>	<b>27.8</b>
<b>TOTAL – NATIONAL CANCER INSTITUTE</b>	<b>\$814,957</b>	<b>100.0</b>	<b>\$872,270</b>	<b>100.0</b>	<b>\$878,802</b>	<b>100.0</b>



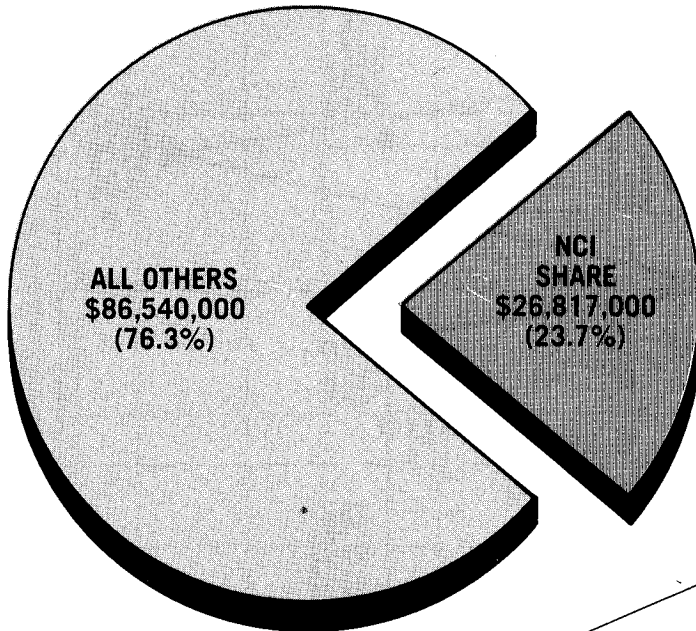
# CANCER CONTROL PROGRAM OBLIGATIONS — FISCAL YEARS 1973-1977



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

# REIMBURSEMENT TO NIH MANAGEMENT FUND FISCAL YEAR 1977

**TOTAL NIH SERVICES  
\$113,357,000**



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  
\$26,817,000**

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

\$904,000

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).

\$10,814,000

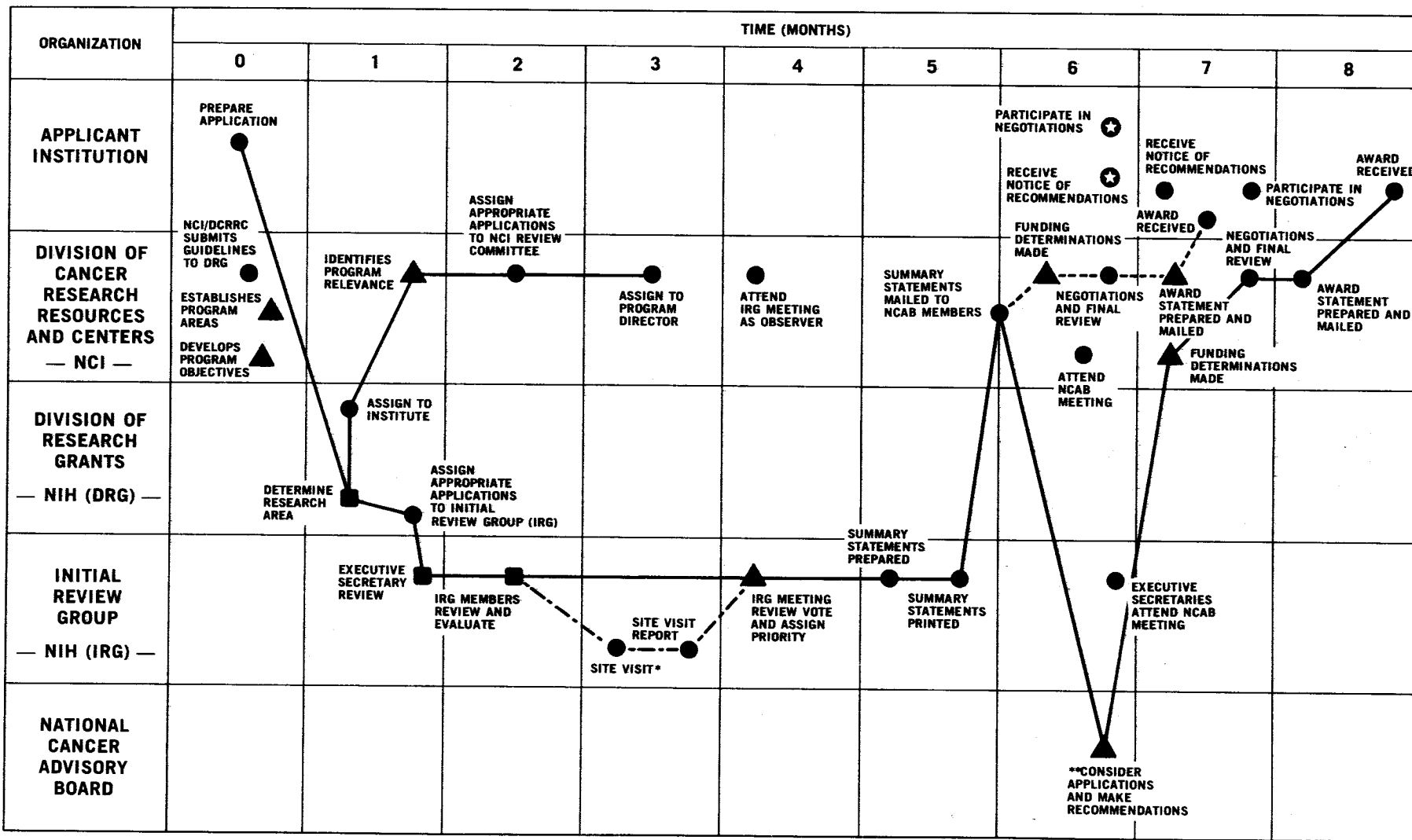
OFFICE OF ADMINISTRATION
Division of Administrative Services
Division of Contracts and Grants
Division of Engineering Services
Division of Financial Management
Division of Management Policy
Division of Management Survey and Review
Division of Personnel Management

\$1,800,000

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.

# NCI GRANTS ADMINISTRATION PROCESS — UNDER CANCER ACT OF 1971



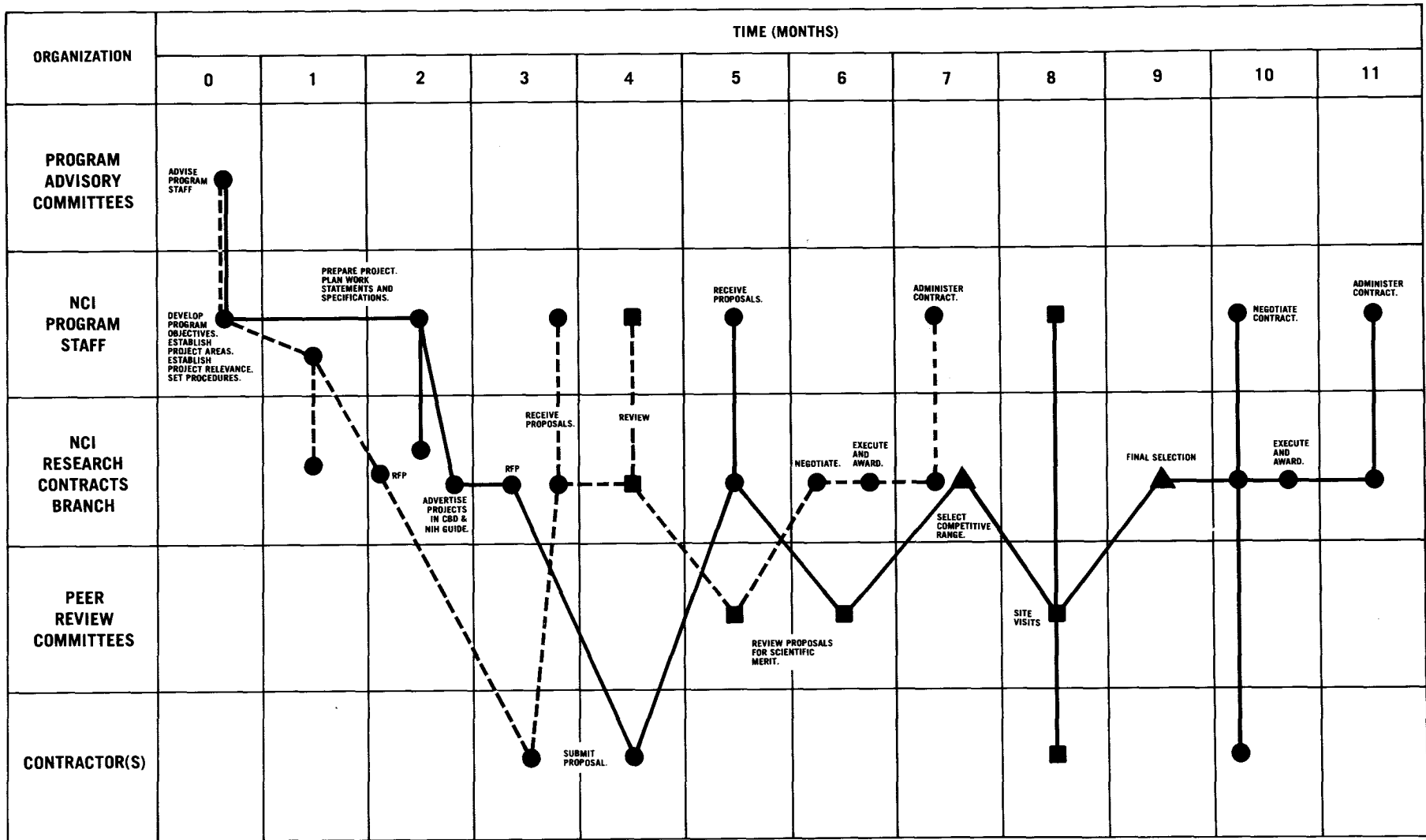
**LEGEND:**

- 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.

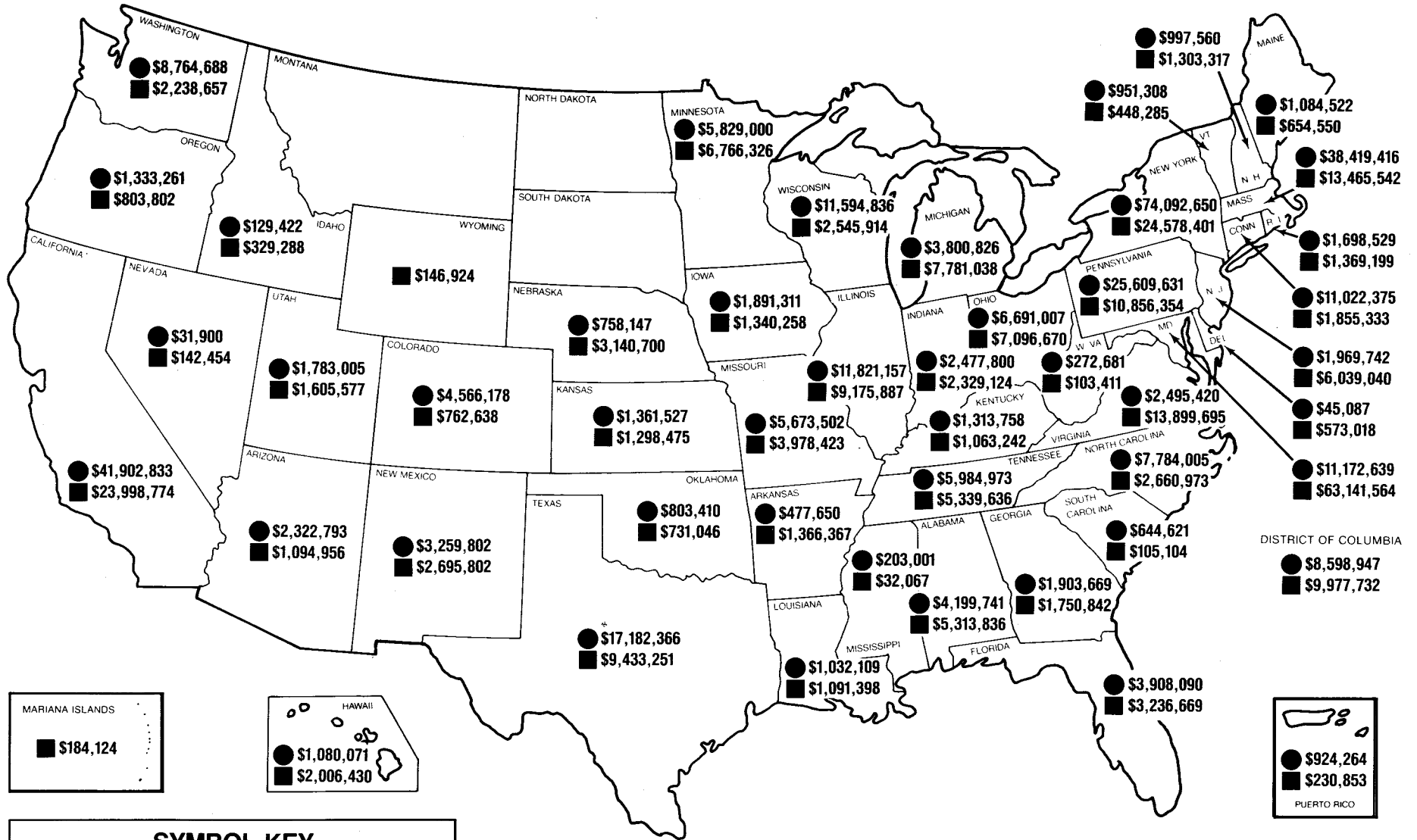
**LEGEND:**

- OPERATION
- REVIEW
- ▲ DECISION

- NORMAL FLOW
- - - NON-COMPETITIVE CONTRACTS

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

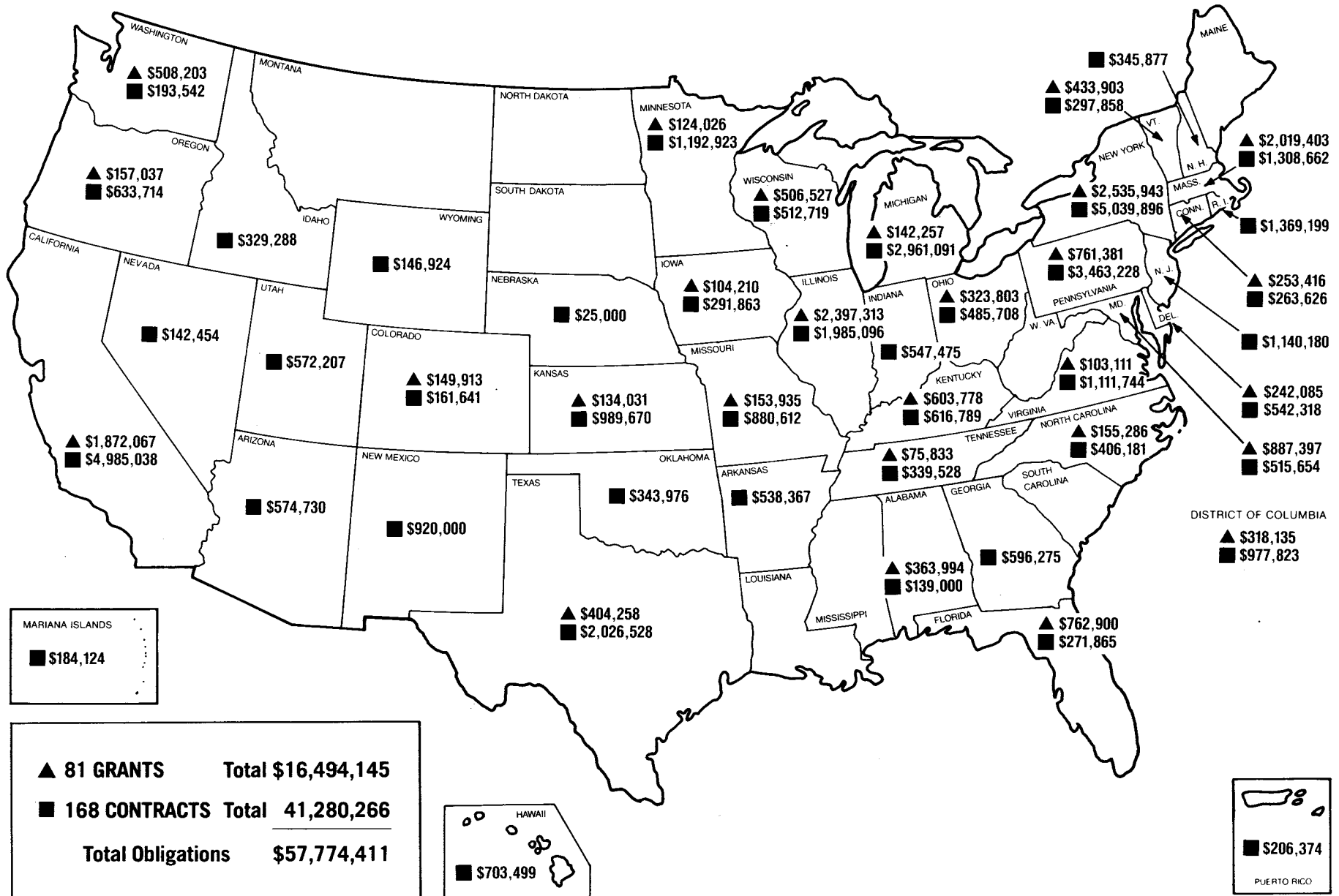
# STATE DISTRIBUTION OF GRANTS AND CONTRACTS—FISCAL YEAR 1977



**SYMBOL KEY**  
 ● GRANT DOLLARS PER STATE  
 ■ CONTRACT DOLLARS PER STATE

NOTE: Contract figures exclude Foreign Contracts: \$9,572,034; Grant figures exclude Foreign Grants: \$1,910,844; and Scientific Evaluation (DRG): \$606,000.

# DISTRIBUTION OF CANCER CONTROL GRANTS AND CONTRACTS—FISCAL YEAR 1977



# INSTITUTIONS RECEIVING MORE THAN \$1,000,000 FROM THE NATIONAL CANCER INSTITUTE IN FISCAL YEAR 1977

(DOLLARS IN THOUSANDS)

NAME OF INSTITUTION	GRANTS	CONTRACTS	CONSTRUCTION	TOTAL	LOCATION
Litton Bionetics, Inc.	\$ —	\$ 27,825	\$ 2,815*	\$ 30,640	Maryland
Sloan-Kettering Institute for Cancer Research	19,402	2,552	—	21,954	New York
University of Texas System Cancer Center	11,736	4,829	—	16,565	Texas
University of Wisconsin Clinical Cancer Center	12,150	611	—	12,761	Wisconsin
Tracor Jitco, Inc.	—	12,412	—	12,412	Virginia
Johns Hopkins University Comprehensive Cancer Center	9,407	2,763	—	12,170	Maryland
Yale University Comprehensive Cancer Center	9,206	1,373	1,064	11,643	Connecticut
Sidney Farber Cancer Center	9,000	1,295	2,867	13,162	Massachusetts
University of Southern California/LAC Cancer Center	5,993	3,782	—	9,775	California
Roswell Park Memorial Institute	8,095	1,674	—	9,769	New York
University of California, L.A., Comp. Cancer Center	6,950	2,671	—	9,621	California
Stanford University	7,252	1,523	—	8,775	California
Memorial Hospital for Cancer and Allied Disease	5,133	3,155	—	8,288	New York
Fred Hutchinson Cancer Research Center	6,892	997	—	7,889	Washington
Columbia University	5,553	1,852	—	7,405	New York
Fox Chase Institute for Cancer Research	6,693	614	—	7,307	Pennsylvania
Harvard University	6,580	488	—	7,068	Massachusetts
Duke University Comprehensive Cancer Center	5,321	1,692	—	7,013	North Carolina
University of Chicago	5,959	847	—	6,806	Illinois
University of Minnesota	4,856	1,756	—	6,612	Minnesota
Mayo Foundation Cancer Center	1,809	4,678	—	6,487	Minnesota
Massachusetts General Hospital	5,551	801	—	6,352	Massachusetts
Yeshiva University	5,450	757	—	6,207	New York
University of Rochester	5,397	660	2,109	8,166	New York
New York University	4,719	1,322	—	6,041	New York
University of California, Berkeley	5,651	207	—	5,858	California
Mount Sinai School of Medicine	4,199	1,555	—	5,754	New York
Massachusetts Institute of Technology	4,892	777	1,499	7,168	Massachusetts
University of California, San Francisco	4,901	714	—	5,615	California
University of Alabama Comprehensive Cancer Center	4,848	576	—	5,424	Alabama
Microbiological Associates	—	5,184	—	5,184	Maryland
University of Maryland, Baltimore	465	4,632	—	5,097	Maryland
University of Pennsylvania	4,677	293	—	4,970	Pennsylvania
University of New Mexico	3,395	1,378	—	4,773	New Mexico
Southern Research Institute	368	4,393	—	4,761	Alabama
Wistar Institute	4,522	193	—	4,715	Pennsylvania
Stanford Research Institute	644	3,960	—	4,604	California
State University of New York	3,506	1,095	—	4,601	New York
Washington University	4,434	157	—	4,591	Missouri
University of Miami	3,768	776	—	4,544	Florida
Baylor College of Medicine	3,158	1,154	—	4,312	Texas
Michigan Cancer Foundation	658	3,361	—	4,019	Michigan
Meloy Laboratories, Inc.	—	3,926	—	3,926	Virginia
Energy Research and Development Administration	—	3,876	—	3,876	Tennessee
Temple University	3,439	388	—	3,827	Pennsylvania
University of Nebraska Medical Center	754	3,029	—	3,783	Nebraska
American Health Foundation	2,516	1,123	—	3,639	New York
University of Kansas	2,311	1,298	—	3,609	Kansas
Emory University	2,241	1,349	—	3,590	Georgia
Veterans Hospital	—	3,562	—	3,562	Dist. of Col.
Ohio State University Cancer Research Center	2,655	895	1,682	5,232	Ohio
University of Utah	2,339	1,174	—	3,513	Utah
St. Jude Children's Research Hospital	3,344	148	—	3,492	Tennessee
Enviro Controls, Inc.	—	3,491	—	3,491	Maryland
University of Pittsburgh	1,541	1,833	—	3,374	Pennsylvania
University of Arizona	2,431	887	—	3,318	Arizona
Pennsylvania State University	1,708	1,569	—	3,277	Pennsylvania
Arthur D. Little, Inc.	—	3,250	—	3,250	Massachusetts
ITT Research Institute	90	3,097	—	3,187	Illinois
University of California, San Diego	2,852	243	—	3,095	California
Scripps Clinic and Research Foundation	1,640	1,436	—	3,076	California
Occupational Safety and Health	—	3,058	—	3,058	Maryland
University of Iowa	1,954	1,070	—	3,024	Iowa
University of Colorado	2,395	581	—	2,976	Colorado
University of Illinois	1,930	977	—	2,907	Illinois
Thomas Jefferson University	2,401	489	—	2,890	Pennsylvania
Cornell University	2,478	356	—	2,834	New York
Salk Institute	2,590	228	—	2,818	California
JRB Associates	—	2,780	—	2,780	Virginia
University of North Carolina	2,304	412	—	2,716	North Carolina
Cold Spring Harbor Laboratories	2,595	—	1,411	4,006	New York
Franklin Institute	—	2,480	—	2,480	Pennsylvania
University of Hawaii, Manoa	1,254	1,179	—	2,433	Hawaii
Pfizer, Inc.	—	2,418	—	2,418	New Jersey

NAME OF INSTITUTION	GRANTS	CONTRACTS	CONSTRUCTION	TOTAL	LOCATION
Department of Army, Fort Detrick	\$ -	\$ 2,284	\$ -	\$ 2,284	Maryland
Georgetown University	1,096	1,180	3,124	5,400	Dist. of Col.
New York State Department of Health	1,690	584	600	2,874	New York
Rockefeller University	2,263	-	-	2,263	New York
University of Tennessee, Knoxville	1,845	411	-	2,256	Tennessee
American College of Radiation	1,704	539	-	2,243	Illinois
Midwest Research Institute	141	2,095	-	2,236	Missouri
Hazleton Laboratories, Inc.	-	2,120	-	2,120	Virginia
Virginia Commonwealth University	1,674	421	-	2,095	Virginia
University of California, Davis	1,232	845	-	2,077	California
Tufts University	1,987	79	-	2,066	Massachusetts
National Institutes of Health, Bethesda	137	1,918	3,177*	5,232	Maryland
Howard University	1,471	583	749	2,803	Dist. of Col.
California State Health and Welfare	526	1,513	-	2,039	California
Northwestern University	1,583	397	895	2,875	Illinois
University of Washington	1,792	137	-	1,929	Washington
Children's Hospital of Philadelphia	1,587	329	-	1,916	Pennsylvania
University of Texas, Galveston	1,501	414	-	1,915	Texas
Dartmouth College	1,058	833	-	1,891	New Hampshire
Case Western Reserve University	1,458	362	-	1,820	Ohio
George Washington University	1,579	223	-	1,802	Dist. of Col.
Boston University	1,634	164	-	1,798	Massachusetts
Charles River Breeding Laboratories	-	1,776	-	1,776	Massachusetts
Vanderbilt University	810	960	-	1,770	Tennessee
St. Louis University	751	984	-	1,735	Missouri
Wayne State University	1,271	430	-	1,701	Michigan
Indiana University	1,189	492	-	1,681	Indiana
University of Vermont	1,208	408	-	1,616	Vermont
University of Michigan	1,207	399	-	1,606	Michigan
Rush-Presbyterian-St. Luke's Medical Center	563	1,042	-	1,605	Illinois
University of Connecticut	1,389	203	-	1,592	Connecticut
Battelle Memorial Institute	-	1,565	-	1,565	Ohio
Illinois Cancer Council	752	811	-	1,563	Illinois
Life Sciences, Inc.	88	1,472	-	1,560	Florida
New York University Medical Center	1,073	470	-	1,543	New York
Texas Health Science Center, University of Dallas	1,062	465	-	1,527	Texas
Montefiore Hospital & Medical Center	1,363	160	-	1,523	New York
Jackson Laboratory	1,024	460	-	1,484	Maine
Worcester Foundation	1,257	195	-	1,452	Massachusetts
University of Kentucky	1,074	365	-	1,439	Kentucky
University of Puerto Rico	1,220	209	-	1,429	Puerto Rico
World Health Organization	-	1,411	-	1,411	New York
University of Oregon	1,308	93	-	1,401	Oregon
Ben Venue Laboratories	-	1,378	-	1,378	Ohio
Weizmann Institute of Science	198	1,179	-	1,377	Israel
Northern California Cancer Program, Inc.	1,018	350	-	1,368	California
Mason Research Center	-	1,327	-	1,327	Massachusetts
Hahnemann Medical College & Hospital	1,260	65	-	1,325	Pennsylvania
University of Louisville	607	697	-	1,304	Kentucky
University of California, Irvine	1,078	219	-	1,297	California
Southwest Foundation for Research	211	1,079	-	1,290	Texas
Medical College of Wisconsin	917	366	-	1,283	Wisconsin
University of Virginia	1,146	123	-	1,269	Virginia
Michigan State University	1,170	85	-	1,255	Michigan
Roger Williams General Hospital	1,239	-	-	1,239	Rhode Island
Upjohn Company	-	1,227	-	1,227	Michigan
Allegheny General Hospital	800	423	-	1,223	Pennsylvania
Electro-Nucleonics Laboratories	-	1,210	-	1,210	Maryland
Merck & Company	-	1,200	-	1,200	New Jersey
Colorado State University	1,185	11	-	1,196	Colorado
AMC Cancer Research Center & Hospital	1,183	-	-	1,183	New York
Mason Research Institute	-	1,181	-	1,181	Maryland
New England Medical Center Hospitals	576	567	-	1,143	Massachusetts
Rhode Island State Department of Health	-	1,127	-	1,127	Rhode Island
Long Island Cancer Council	-	1,083	-	1,083	New York
Parke, Davis & Company	-	1,077	-	1,077	Michigan
Wake Forest University	1,036	40	-	1,076	North Carolina
TRW Systems Group	-	1,067	-	1,067	Virginia
University City Science Center	-	1,066	-	1,066	Pennsylvania
Children's Hospital Medical Center	992	62	-	1,054	Massachusetts
Monsanto Research Corporation	-	1,046	-	1,046	Ohio
Value Engineering Company	-	1,036	-	1,036	Virginia
Community Cancer Control	-	1,030	-	1,030	California
University of Oklahoma	620	402	-	1,022	Oklahoma

<b>TOTALS</b>	<b>\$334,755</b>	<b>\$219,460</b>	<b>\$21,992</b>	<b>\$576,207</b>
<b>PERCENT OF TOTAL AWARDED ABOVE</b>	<b>58.1</b>	<b>38.1</b>	<b>3.8</b>	<b>100</b>
<b>TOTAL NCI FISCAL YEAR 1977 OBLIGATIONS</b>	<b>\$814,957</b>			
<b>PERCENT OF NCI TOTAL OBLIGATIONS</b>	<b>41.1</b>	<b>26.9</b>	<b>2.7</b>	<b>70.7</b>

\*CONSTRUCTION - \$5,992 for NIH facilities

NOTE: The NCI funds approximately 600 institutions; therefore, the above listing represents about 25 percent of the institutions annually funded by NCI.



# DISTRIBUTION OF NCI CONTRACTS — FISCAL YEAR 1977

## PROGRAM DISTRIBUTION

PERCENT OF TOTAL NUMBER OF CONTRACTS	NUMBER OF CONTRACTS	NCI PROGRAM AREA	THOUSANDS OF DOLLARS	PERCENT OF TOTAL DOLLARS
26.0	325	Division of Cancer Biology and Diagnosis	\$ 42,133	15.9
23.4	293	Division of Cancer Treatment	68,477	25.8
36.8	460	Division of Cancer Cause and Prevention	112,702	42.4
13.4	168	Division of Cancer Control and Rehabilitation	41,280	15.5
0.4	5	Office of the Director	1,071	0.4
	1,251	Totals	\$265,663	

Excludes construction contracts totalling \$5,992,000.  
Includes Interagency Agreements.

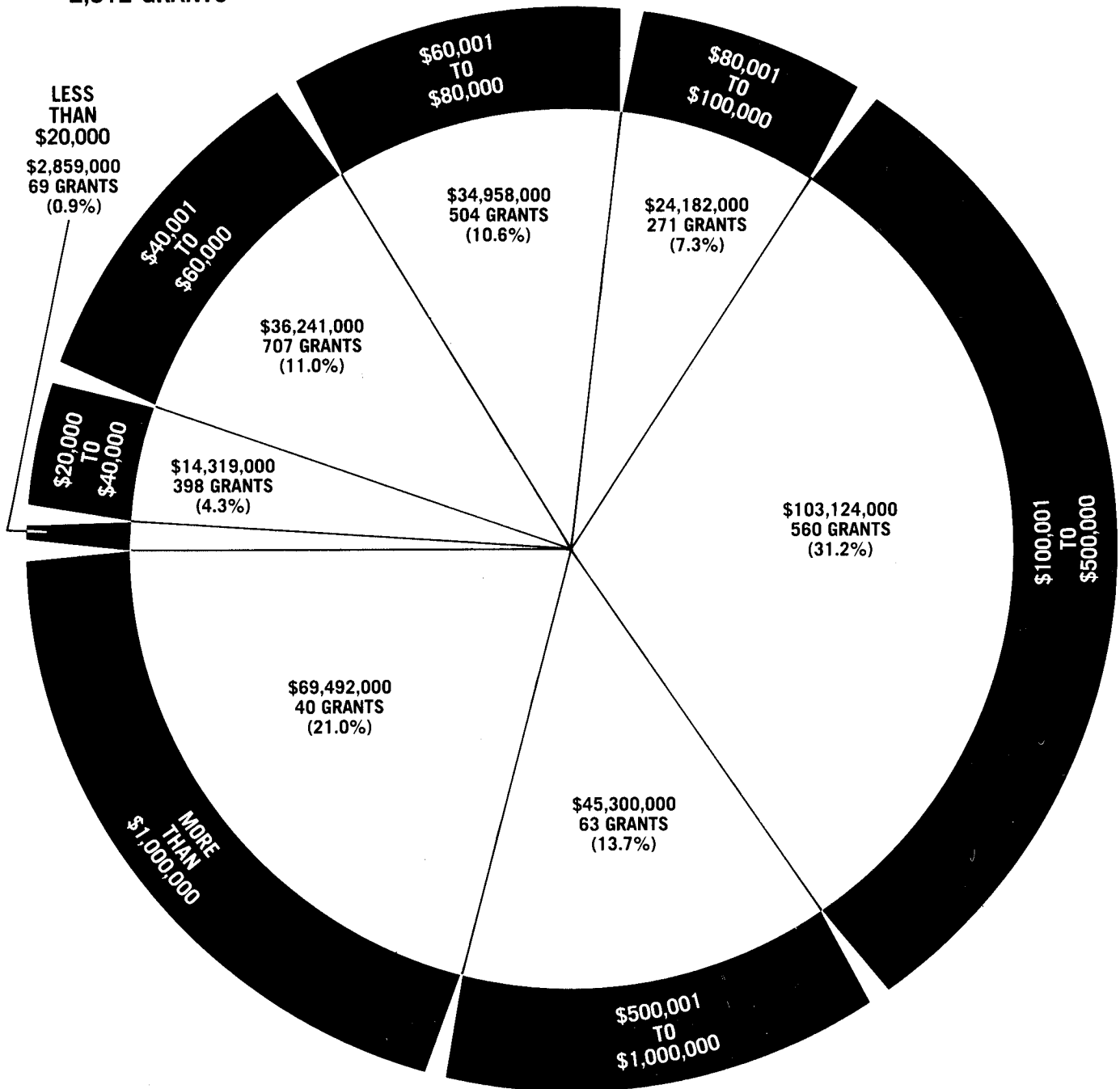
## INSTITUTIONAL DISTRIBUTION

PERCENT OF TOTAL NUMBER OF CONTRACTS	NUMBER OF CONTRACTS	TYPE OF INSTITUTION	THOUSANDS OF DOLLARS	PERCENT OF TOTAL DOLLARS
19.7	246	Profit-Making	\$ 93,884	35.3
39.7	497	Academic	72,124	27.2
21.3	267	Non-Profit	64,355	24.2
6.3	79	Federal Government	19,414	7.3
3.2	40	State and Local Government	6,314	2.4
9.8	122	Foreign	9,572	3.6
	1,251	Totals	\$265,663	

Excludes construction contracts totalling \$5,992,000.

# DISTRIBUTION OF NCI RESEARCH GRANTS BY VALUE OF GRANT AWARD — FISCAL YEAR 1977

**TOTAL GRANT DOLLARS**  
**\$330,475,000**  
**2,612 GRANTS**

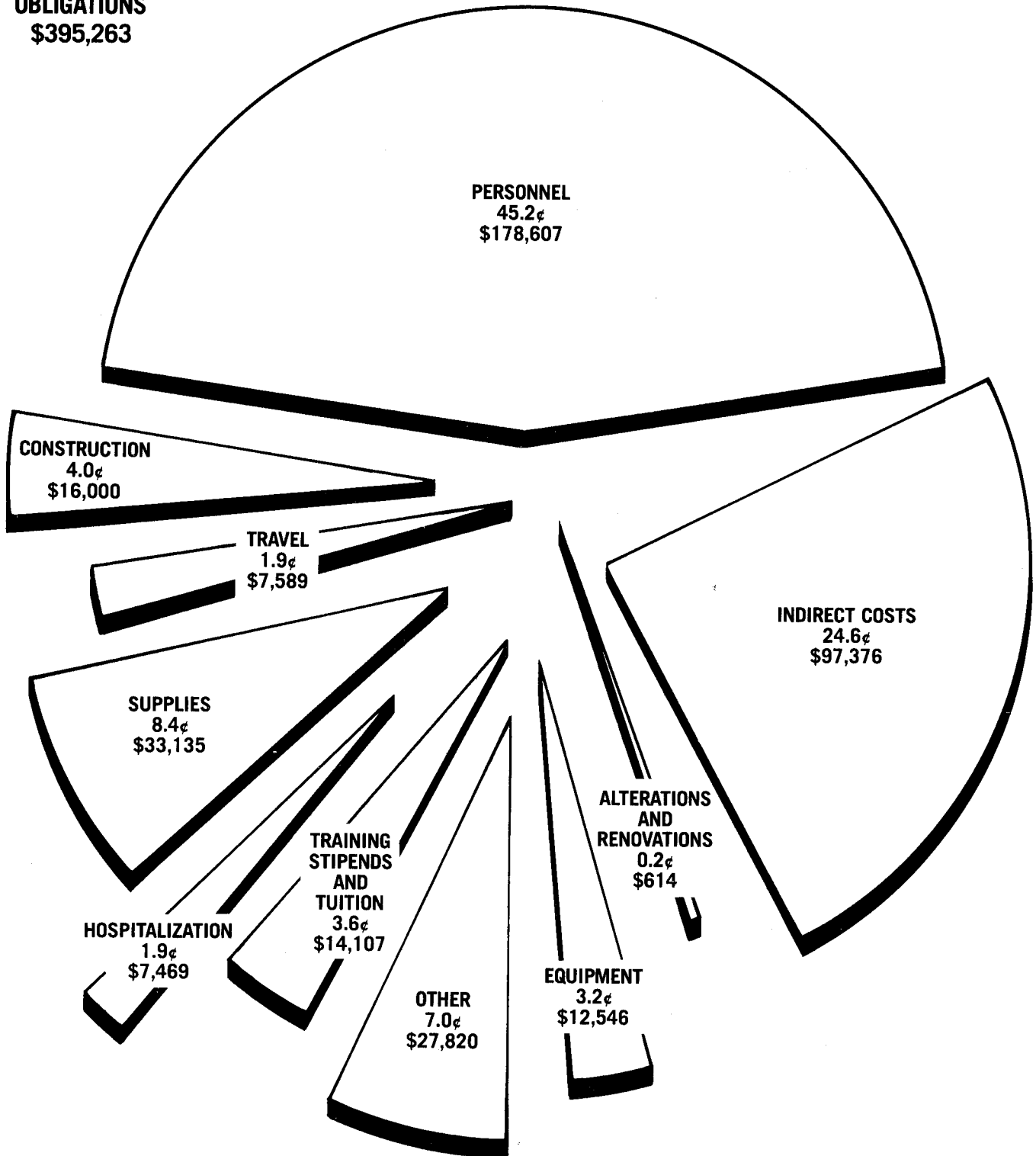


Excludes Training and Fellowship Awards, Cancer Control Grants, Clinical Education, and Career Awards. Includes Clinical Trials and CREG Awards.

# DISTRIBUTION OF THE GRANT DOLLAR—FISCAL YEAR 1977

(DOLLARS IN THOUSANDS)

TOTAL GRANT OBLIGATIONS  
\$395,263



## FOREIGN RESEARCH GRANTS AND CONTRACTS — FISCAL YEAR 1977

	NUMBER OF GRANTS	GRANT DOLLARS AWARDED	NUMBER OF CONTRACTS	CONTRACT DOLLARS AWARDED	TOTAL DOLLARS AWARDED	PERCENT OF TOTAL AMOUNT AWARDED
Australia	3	\$ 117,867	7	\$ 522,402	\$ 640,269	5.4
Austria	—	—	2	101,600	101,600	0.9
Belgium	1	264,014	2	382,024	646,038	5.4
British Columbia	1	45,629	—	—	45,629	0.4
Canada	10	401,732	7	614,293	1,016,025	8.5
Colombia	—	—	2	98,066	98,066	0.8
Denmark	1	21,783	—	—	21,783	0.2
England	7	275,190	16	646,472	921,662	7.7
Finland	1	57,394	7	156,304	213,698	1.8
France	3	107,283	8	1,411,581	1,518,864	12.8
Germany	1	39,280	4	183,732	223,012	1.9
Israel	5	241,578	25	1,957,012	2,198,590	18.5
Italy	1	63,250	11	1,109,677	1,172,927	9.9
Japan	1	42,740	6	496,452	539,192	4.5
Korea, Republic of	1	10,590	—	—	10,590	0.1
Netherlands	—	—	7	434,151	434,151	3.6
Norway	—	—	1	33,604	33,604	0.3
Portugal	1	36,200	—	—	36,200	0.3
Scotland	—	—	1	147,787	147,787	1.2
South Africa	1	43,813	—	—	43,813	0.4
Spain	1	22,000	1	18,528	40,528	0.3
Sweden	2	189,858	10	746,300	936,158	7.9
Switzerland	2	343,320	4	444,797	788,117	6.6
Uganda	—	—	1	67,252	67,252	0.6
<b>TOTAL</b>	<b>43</b>	<b>\$2,323,521</b>	<b>122</b>	<b>\$9,572,034</b>	<b>\$11,895,555</b>	<b>100.0</b>

# APPROPRIATIONS OF THE NCI 1938-1978

1938.....	\$ 400,000	}	0.3%	\$21,000,470
1939.....	400,000			
1940 THROUGH 1946	\$3,879,570	}	3.94%	\$276,315,750
1947.....	1,820,900			
1948.....	14,500,000	}	19.88%	\$1,393,234,000
1949.....	22,000,000			
1950 THROUGH 1956	\$149,481,750	}	8.65%	\$606,018,563
1957.....	48,432,000			
1958.....	56,402,000	}	67.23%	\$4,710,620,500
1959.....	75,268,000			
1960 THROUGH 1966	\$958,954,000	}	8.65%	\$606,018,563
1967.....	175,656,000			
1968.....	183,356,000	}	8.65%	\$606,018,563
1969.....	185,149,500			
1970.....	190,486,063	}	8.65%	\$606,018,563
1971.....	230,383,000			
1972.....	\$378,794,000	}	67.23%	\$4,710,620,500
1973.....	492,205,000			
1974.....	551,191,500	}	67.23%	\$4,710,620,500
1975.....	691,666,000			
1976.....	761,727,000*	}	67.23%	\$4,710,620,500
"TQ".....	152,901,000**			
1977.....	815,000,000	}	67.23%	\$4,710,620,500
1978.....	867,136,000			
<b>TOTAL (1938 through 1978)</b> .....				<b>\$7,007,189,283</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 \$7,000,000,000 in 1978.

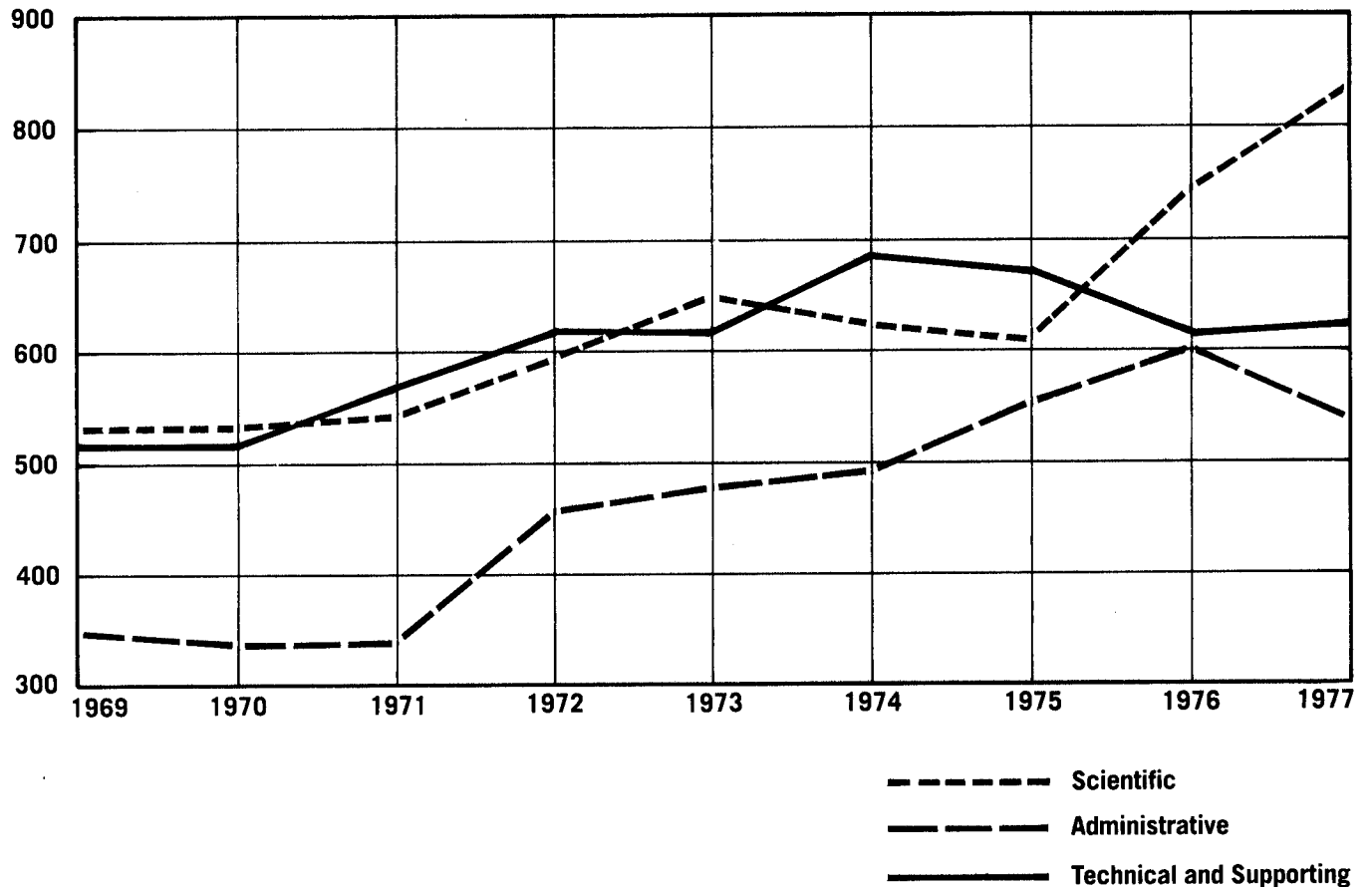
**TRANSITION QUARTER ("TQ")**—July 1, 1976 through September 30, 1976—The Interim Period in the changing of the Federal Fiscal Year from July 1 through June 30, to October 1 through September 30.

\*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								
	1969	1970	1971	1972	1973	1974	1975	1976	1977
Scientific	37.8%	38.3%	37.5%	36.2%	37.3%	34.4%	32.7%	37.9%	41.7%
Administrative	24.4%	24.0%	23.9%	27.3%	27.6%	27.0%	30.0%	30.7%	27.2%
Technical and Supporting	37.8%	37.7%	38.6%	36.5%	35.1%	38.6%	37.3%	31.4%	31.1%
Total Actual Employment	1411	1355	1426	1665	1736	1805	1849	1955	1993

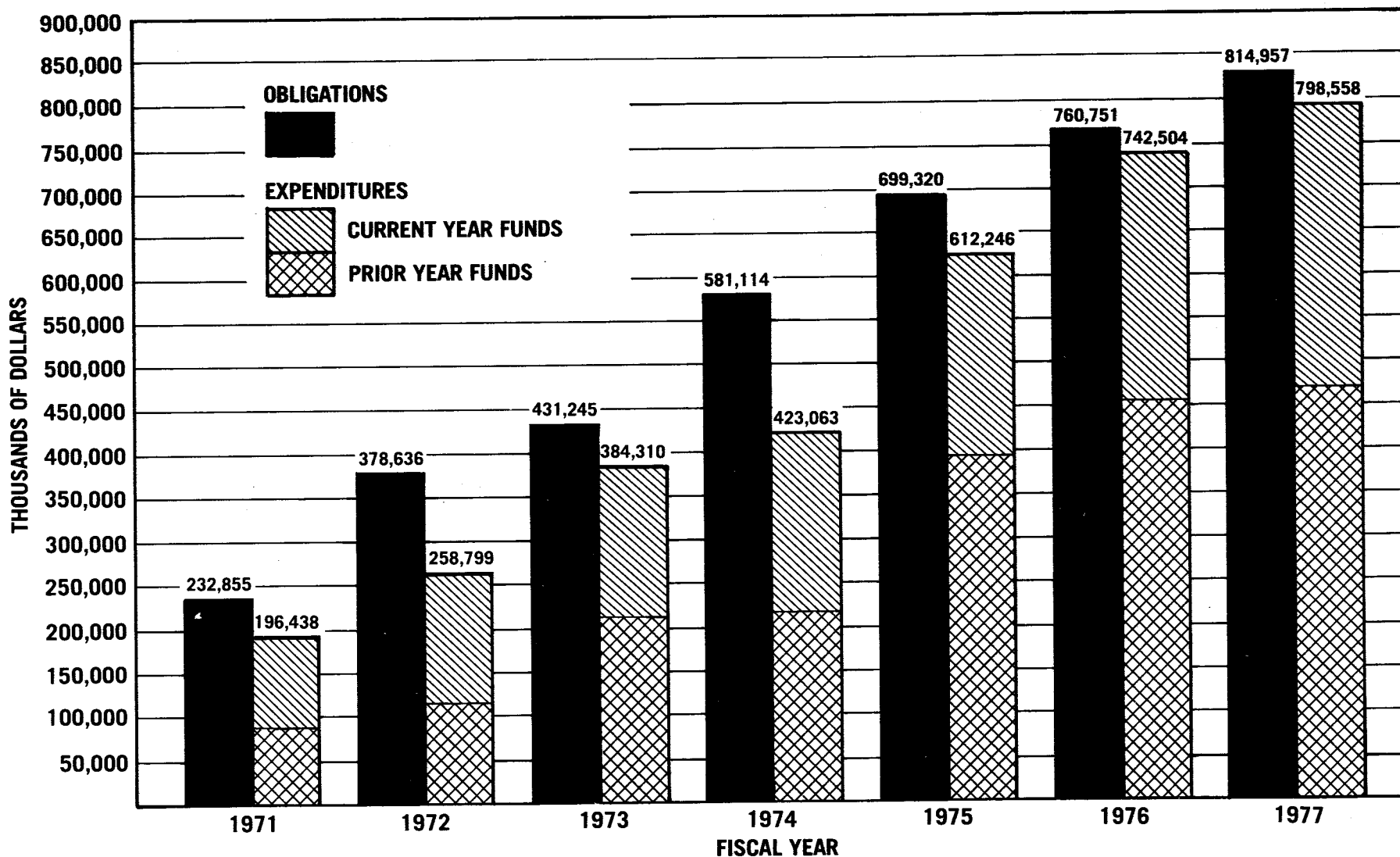


# COMPARISON OF DOLLARS, POSITIONS AND SPACE

FISCAL YEAR	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
1977	814,957	250.0	7.1	1986	39.3	1.6	428,285	33.3	10.6

\*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.



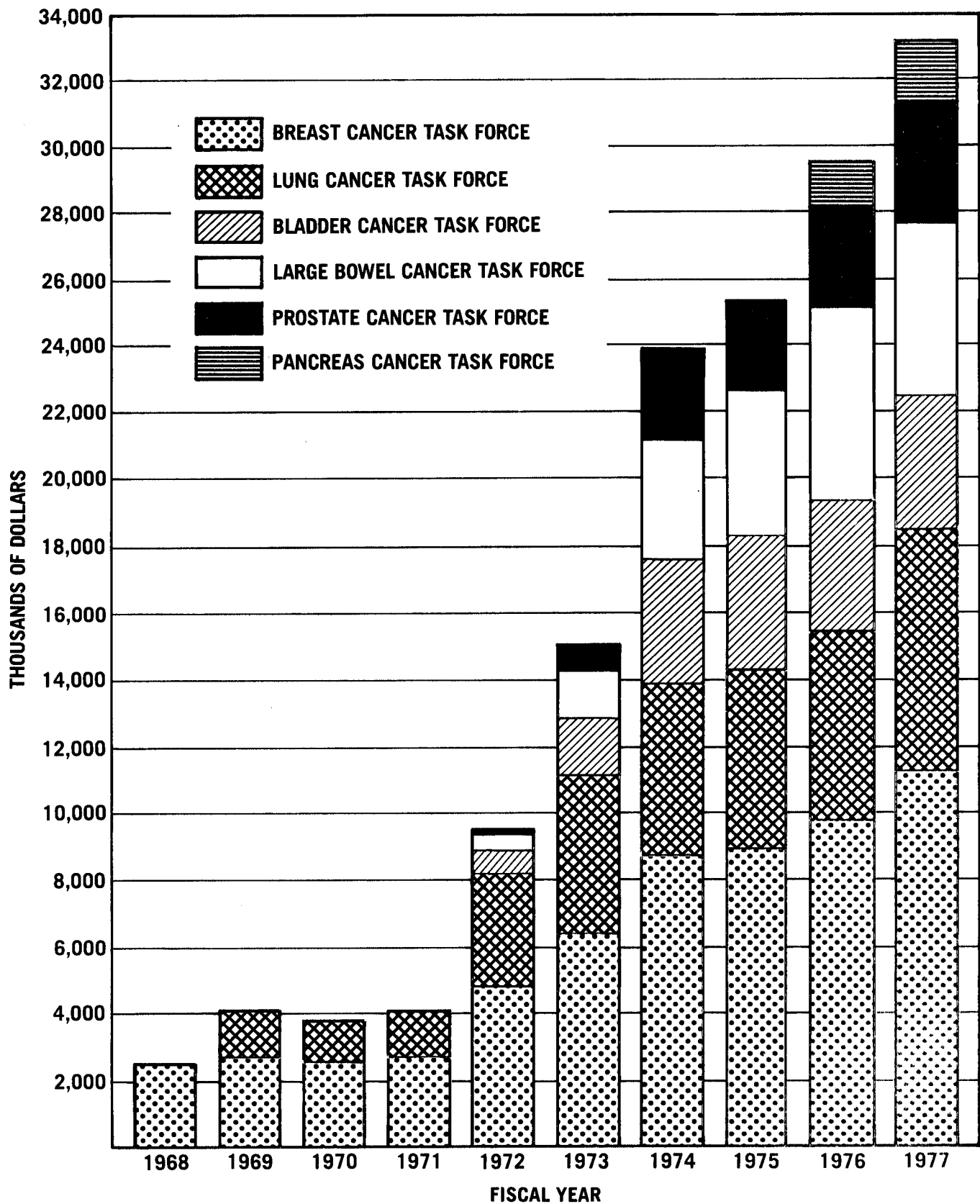
# NCI OBLIGATIONS — 1972-1977

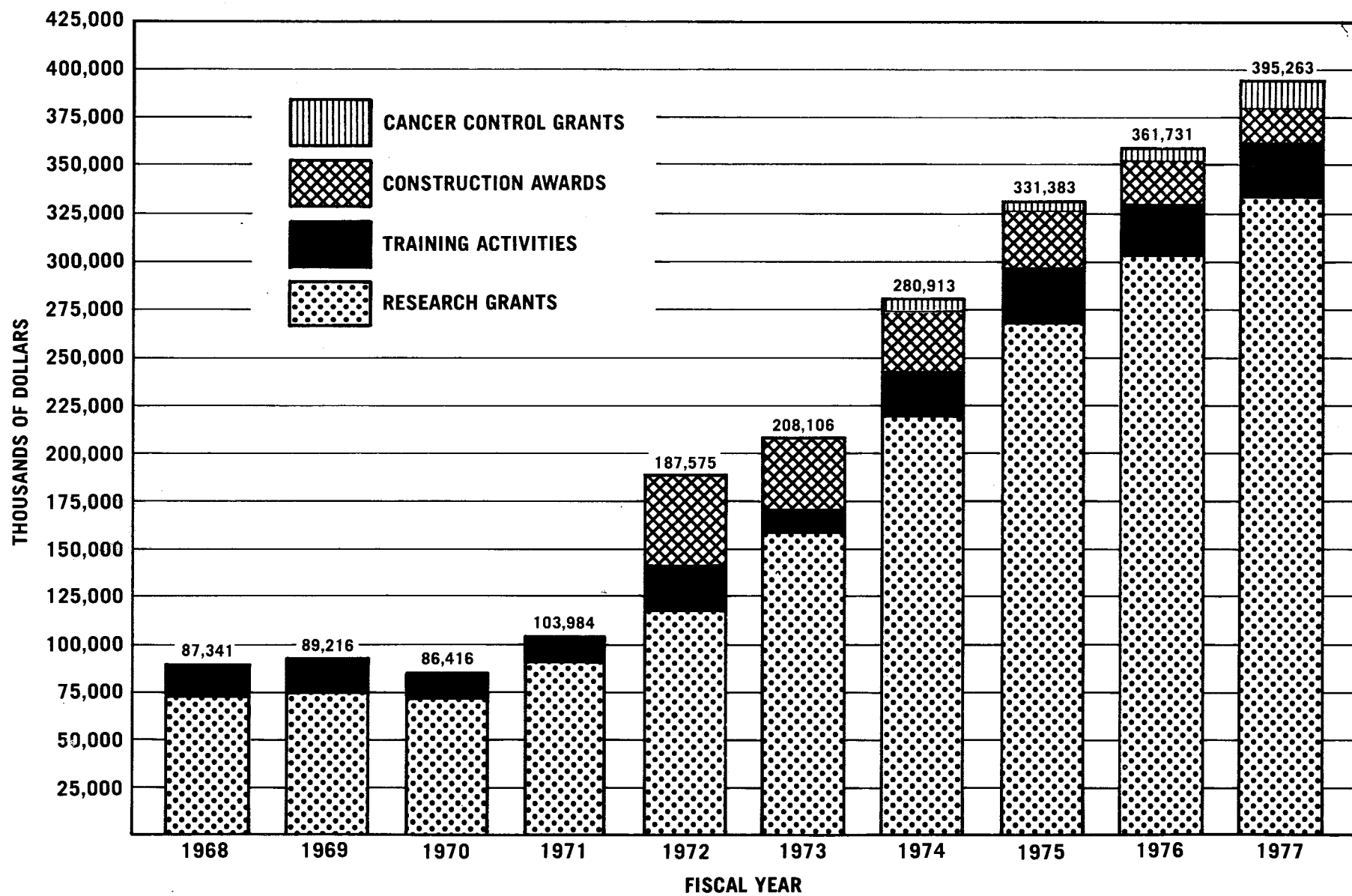
(DOLLARS IN THOUSANDS)

	1972		1973		1974		1975		1976		1977	
	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT
<b>GRANTS</b>												
Research .....	1,472	\$125,202	1,770	\$165,684	2,195	\$219,743	2,567	\$270,614	2,635	\$312,139	2,811	\$342,978
Fellowships .....	197	3,948	91	988	405	6,004	452	13,368	281	13,401	438	18,236
Training .....	201	16,474	193	12,900	173	17,558	103	9,736	45	4,759	14	1,555
Construction .....	17	47,004	17	34,737	8	31,692	10	30,000	9	20,000	6	16,000
<b>TOTAL GRANTS</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>3,269</b>	<b>378,769</b>
<b>DIRECT OPERATIONS</b>												
Research and Research Support												
Contracts .....	582	122,857	677	135,908	950	180,360	1,016	199,585	1,015	221,508	1,080	224,383
Construction Contracts .....	—	3,999	—	4,067	19	6,398	14	14,976	7	4,721	5	5,992
In-House .....	<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	<u>2,031</u>	118,514
Management Fund .....	—	12,910	—	15,194	—	16,754	—	20,326	—	22,094	—	26,817
<b>TOTAL DIRECT OPERATIONS</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>—</b>	<b>375,706</b>
<b>CANCER CONTROL</b>												
In-House .....	—	—	[8]	182	[26]	931	[53]	1,699	[58]	2,455	[81]	2,708
Contracts .....	—	—	19	5,222	154	26,910	199	43,909	183	42,584	168	41,280
Grants .....	—	—	—	—	11	5,916	26	4,665	60	11,432	81	16,494
<b>TOTAL CANCER CONTROL</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>—</b>	<b>60,482</b>
<b>TOTAL NCI OBLIGATIONS</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>	<b>—</b>	<b>\$814,957</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 — 1968-1977



**NCI GRANT AWARDS – 1968 -1977**

# NCI REGULAR GRANT AWARDS — 1972-1977 (Including Clinical Cooperative Groups)

(DOLLARS IN THOUSANDS)

FISCAL YEAR	TYPE AWARD	REQUESTED		APPROVED		AWARDED		PERCENT FUNDED
		NUMBER	AMOUNT	NUMBER	AMOUNT	NUMBER	AMOUNT	
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	55.5
	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>	—
1977	Competing							
	New .....	1,756	\$147,591	1,071	\$ 60,155	398	\$ 23,781	37.2
	Renewals .....	728	87,162	578	50,221	303	32,436	52.4
	<b>Total .....</b>	<b>2,484</b>	<b>234,753</b>	<b>1,649</b>	<b>110,376</b>	<b>701</b>	<b>56,217</b>	<b>42.5</b>
	<b>Non-Competing .....</b>	—	—	—	—	<b>1,412</b>	<b>104,431</b>	—

