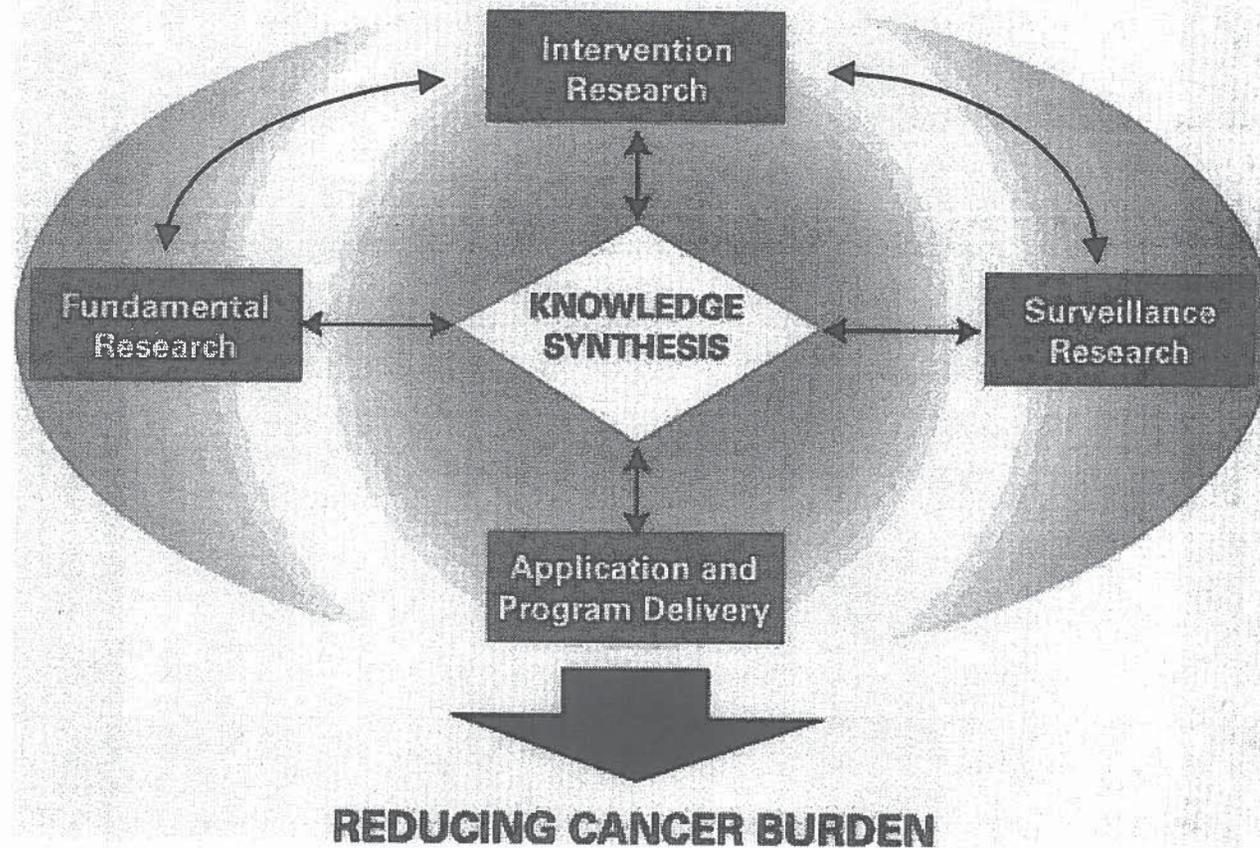


CANCER CONTROL RESEARCH ACTIVITIES



Adapted from the Advisory Committee on Cancer Control, National Cancer Institute of Canada, 1994.

Cancer Control Continuum

Prevention Detection Diagnosis/Management Survivorship

- Tobacco Control
- Diet
- Physical Activity
- Sun Exposure
- Virus Exposure
- Alcohol Use
- Chemoprevention

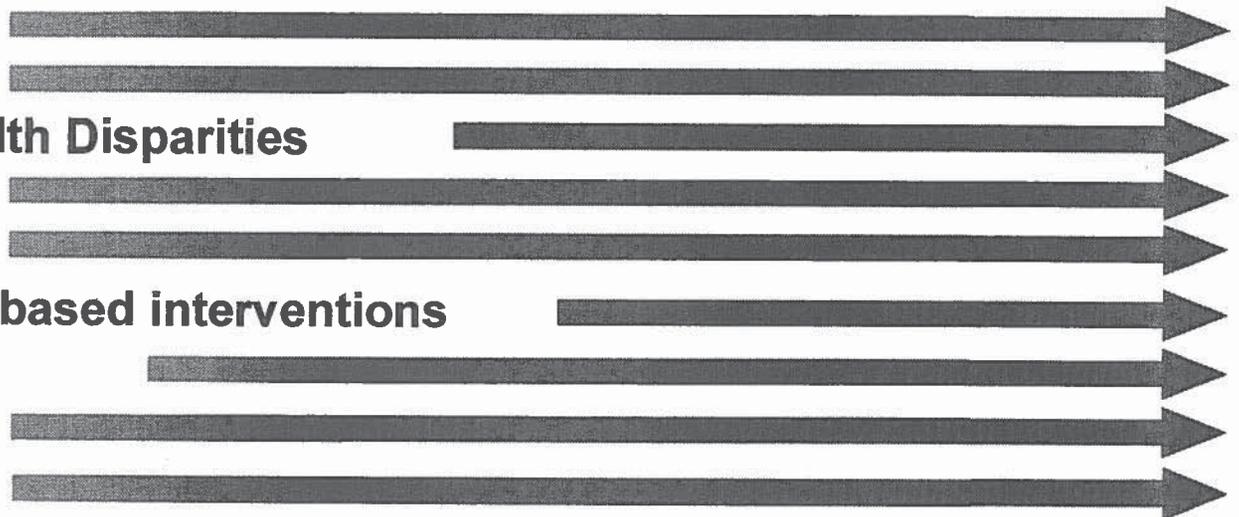
- Pap Test
- Mammography
- FOBT
- Sigmoidoscopy
- PSA Decision Making

- Informed Decision Making

- Health Services and Outcomes Research

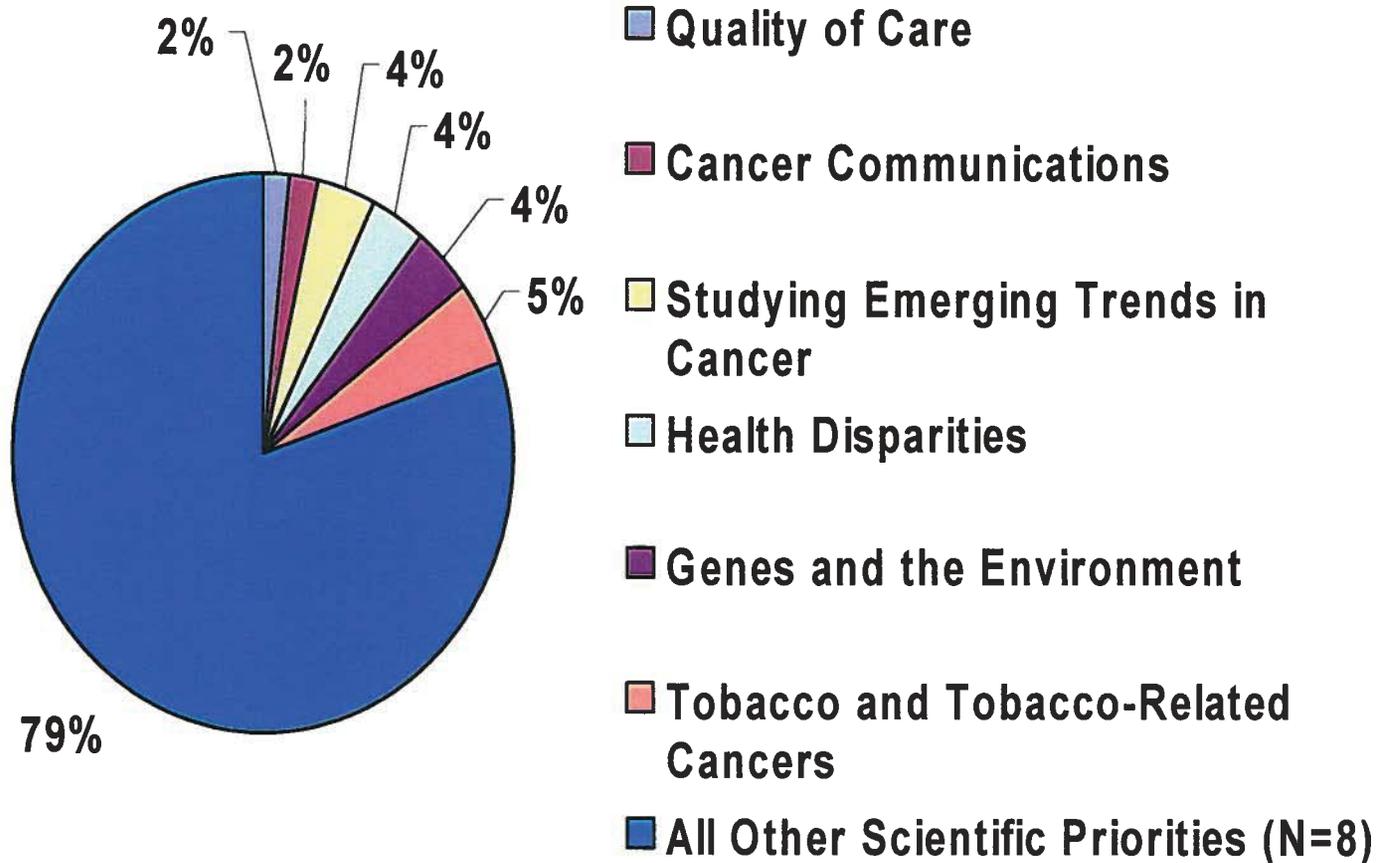
- Coping
- Palliation
- Health Promotion

- Communications
- Surveillance
- Social Determinants of Health Disparities
- Genetics
- Decision Making
- Dissemination of Evidence-based interventions
- Quality of Cancer Care
- Epidemiology
- Measurement



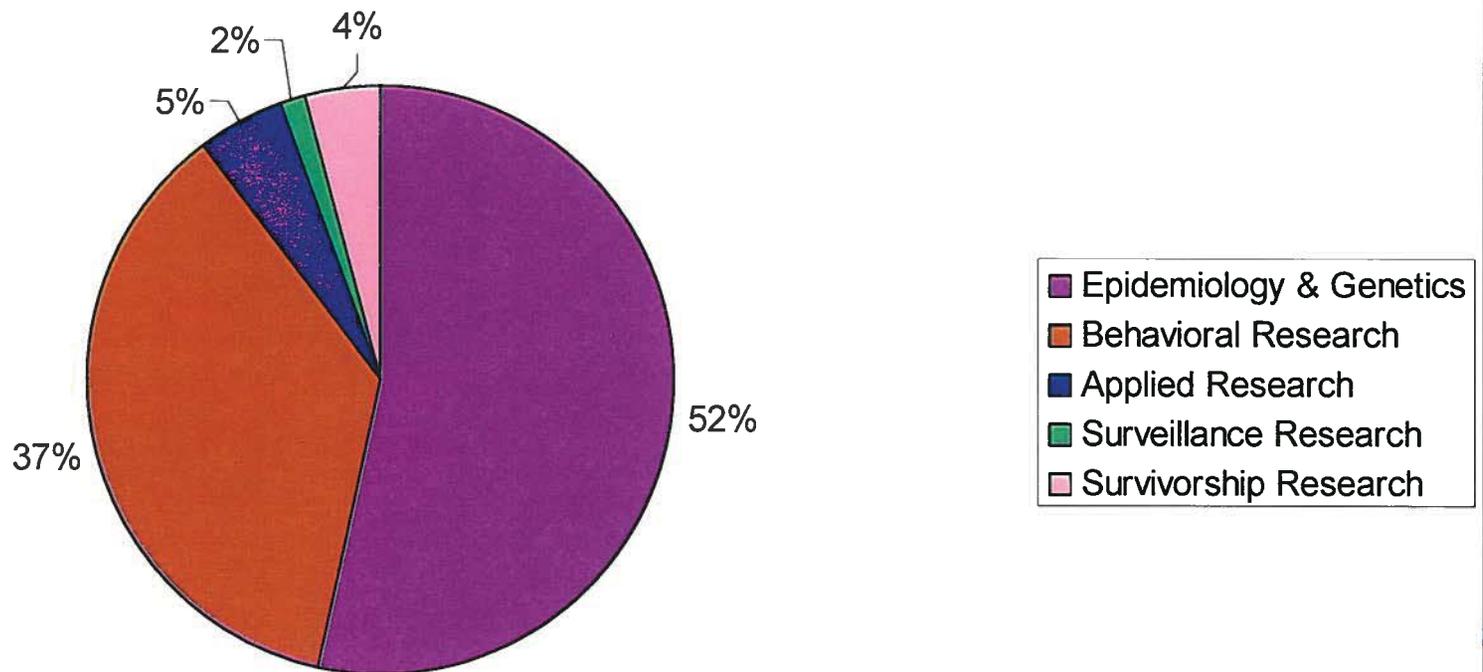
NCI's Proposed Investment in Scientific Priorities - FY'02

Breakout of Cancer Control Priorities



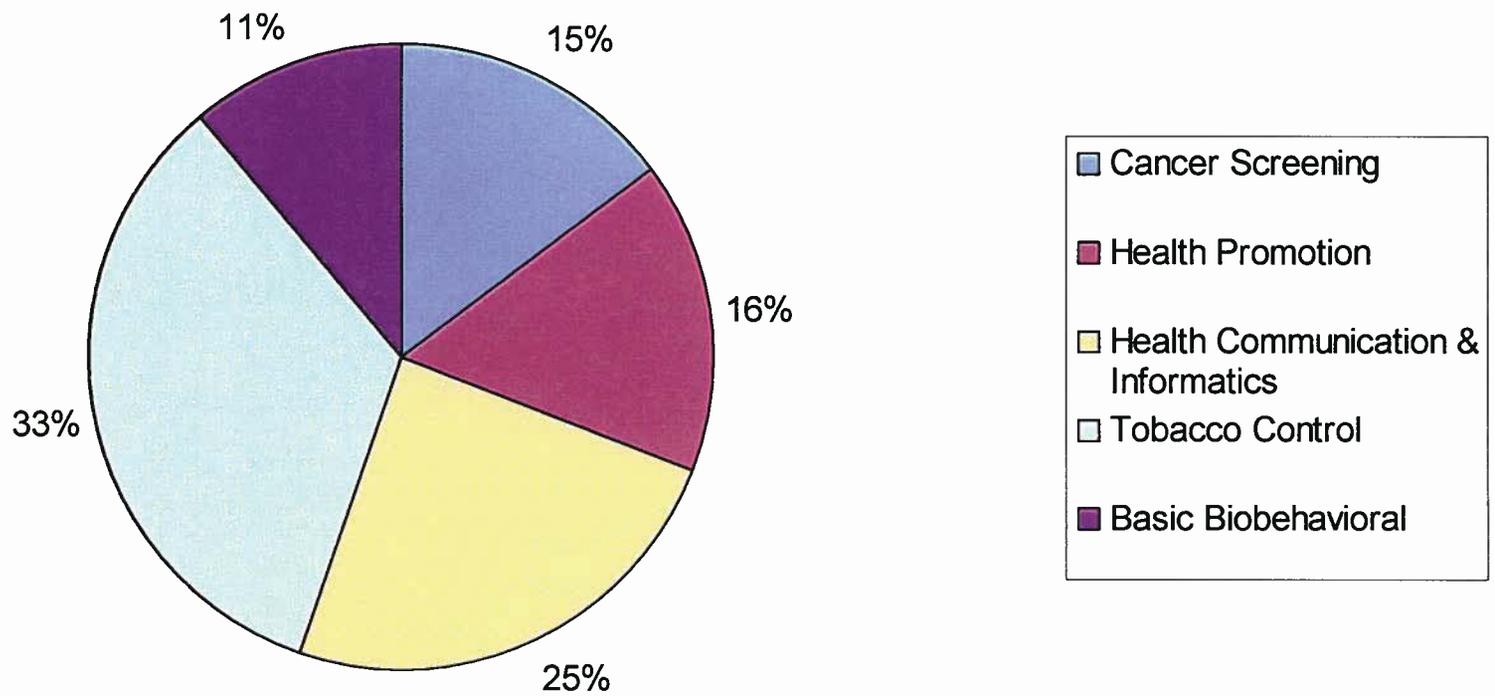
Cancer Control and Population Sciences - Breakout of Fiscal Year 2000 Research Portfolio

693 Grants, \$297.5M



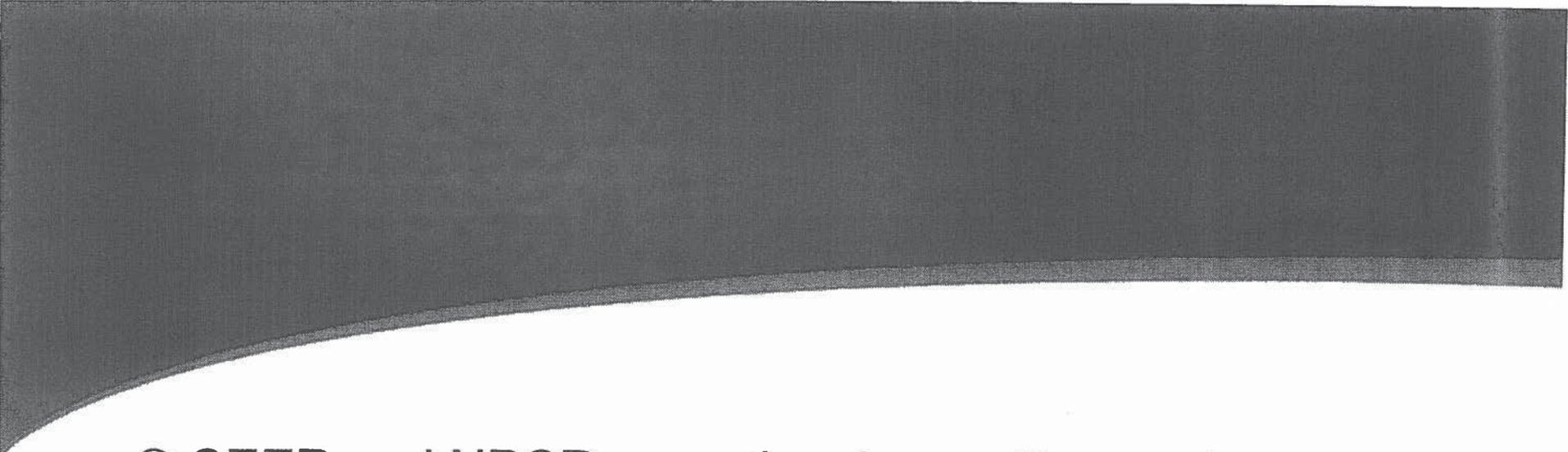
Behavioral Research - Breakout of Fiscal Year 2000 Grant Portfolio by Scientific Focus

253 Grants, \$115.7M

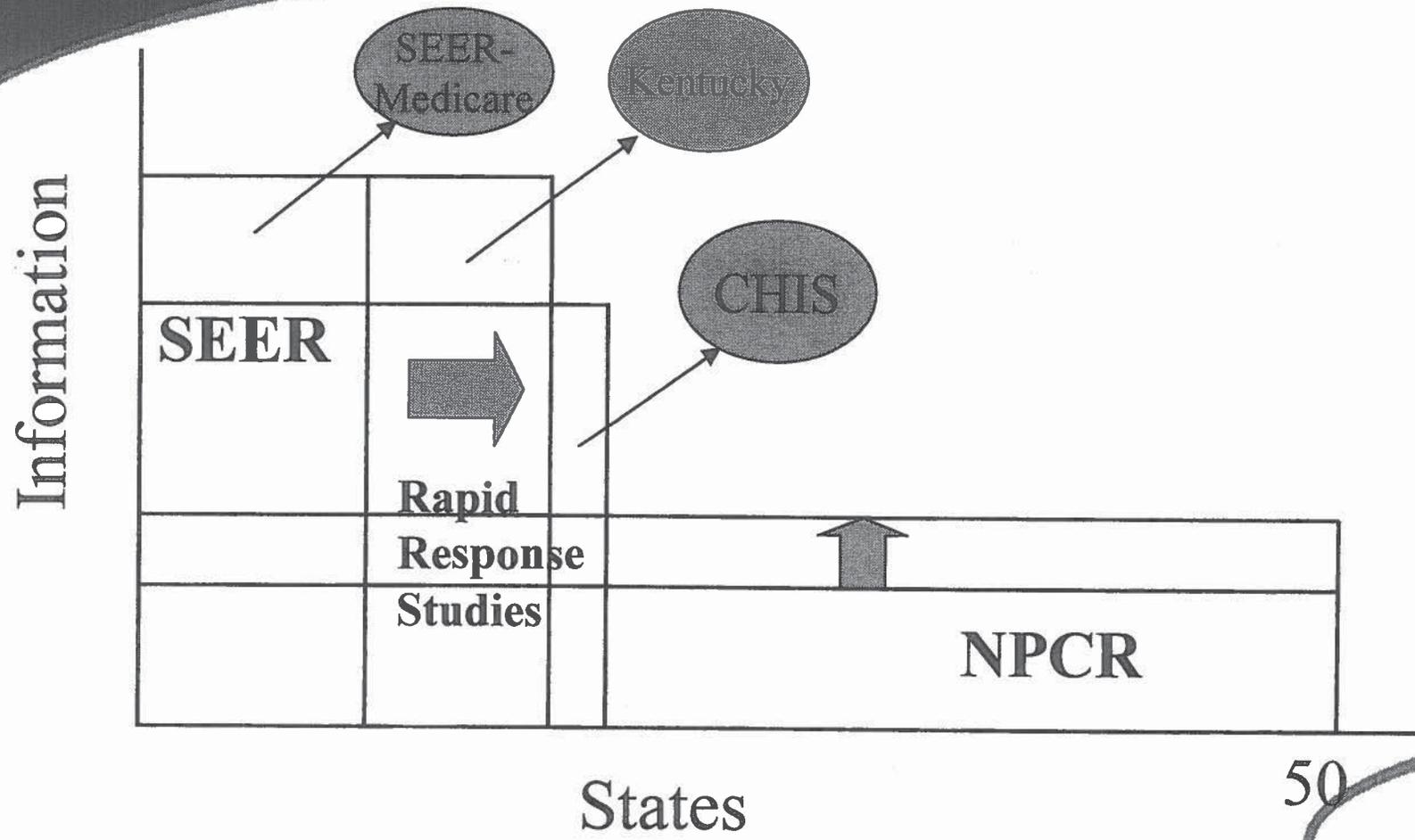


Key Interaction

- Surveillance
 - Population-based registries
 - Risk-factor and early detection
- Tobacco Control
- Nutritional Research
- Quality of Care
- Early Detection
- Population Genetics

- 
- SEER and NPCR - a national surveillance plan
 - NCI-CDC MOU
 - North American Association of Central Cancer Registries (NAACCR)
 - National Coordinating Council for Cancer Surveillance (NCCCS)

Prevention of Cancer



Overview of Cancer Surveillance Implementation Plan

Past "what"

Future "why"

Existing Data

SEER

- Incidence
- Survival

NCHS

- Mortality

Understanding Trends

Modeling
&
GIS

Population Coverage

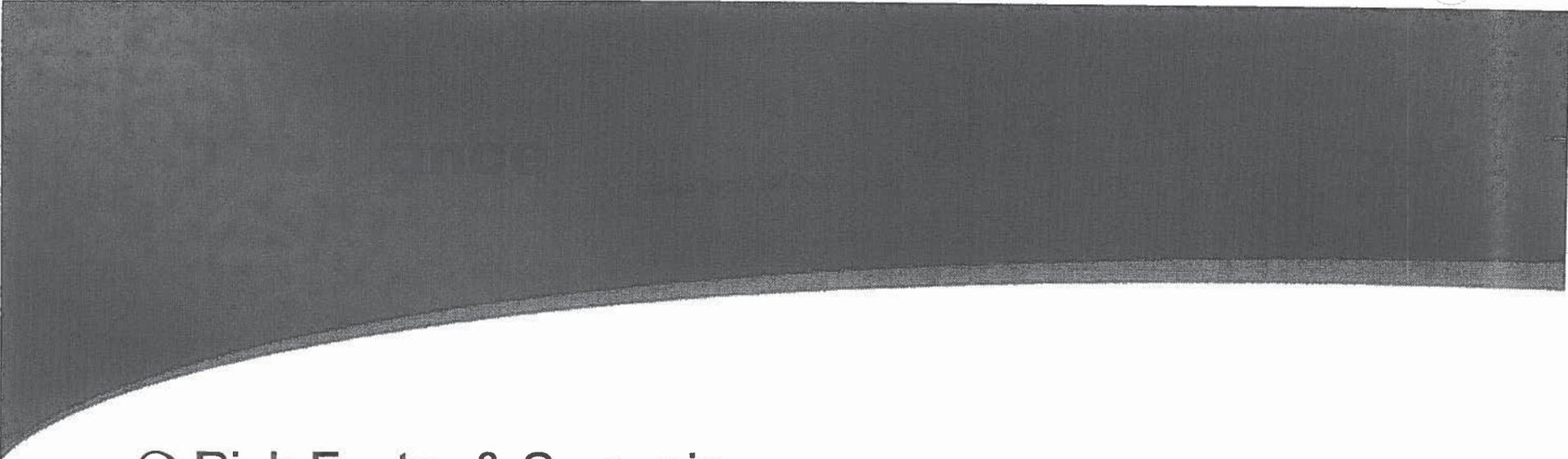
More and New Data

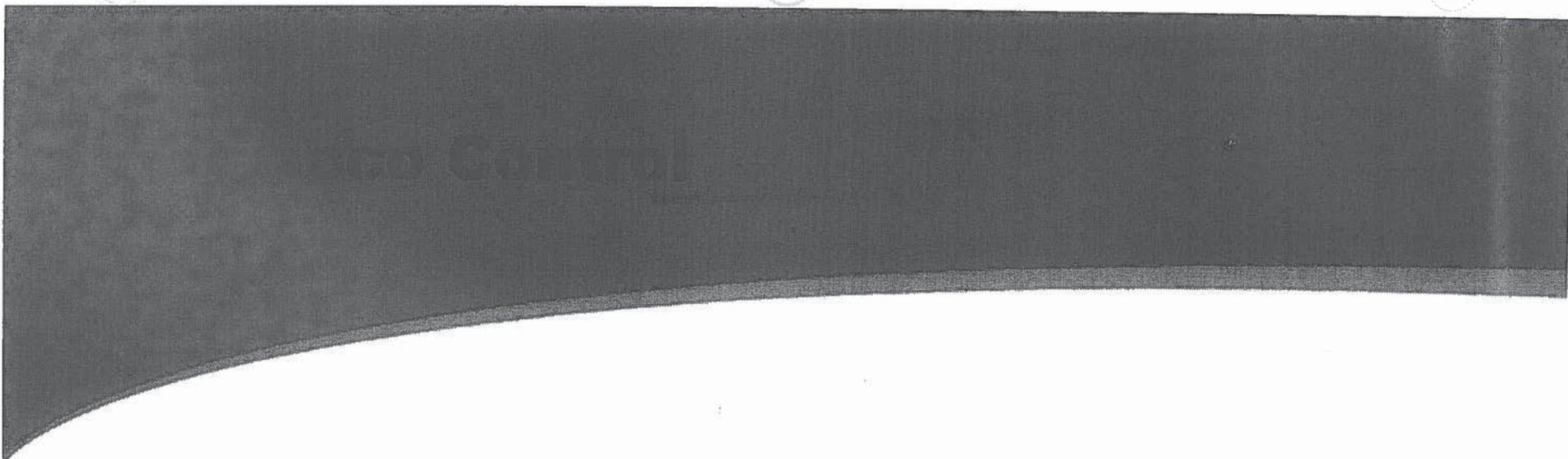
- Risk Factors (including family history)
- Screening
- Quality of Life
- Patterns of Care
- Clinical Samples (tumor tissue)

National Surveillance Plan

- U.S. incidence & survival
- More minority data
- Work with surveillance partners

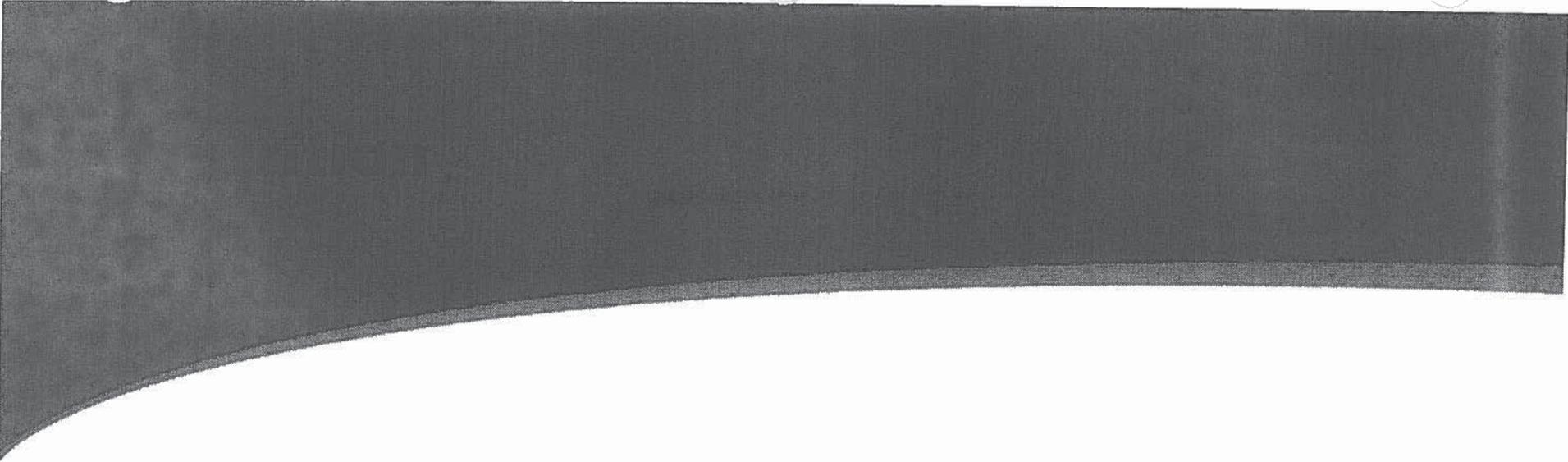
PROGRESS REPORT
Production & Dissemination

- 
- Risk Factor & Screening
 - NHIS Cancer Supplement
 - California Health Interview Survey -
 - Dietary Surveillance
 - NHANES
 - Colorectal Cancer Screening



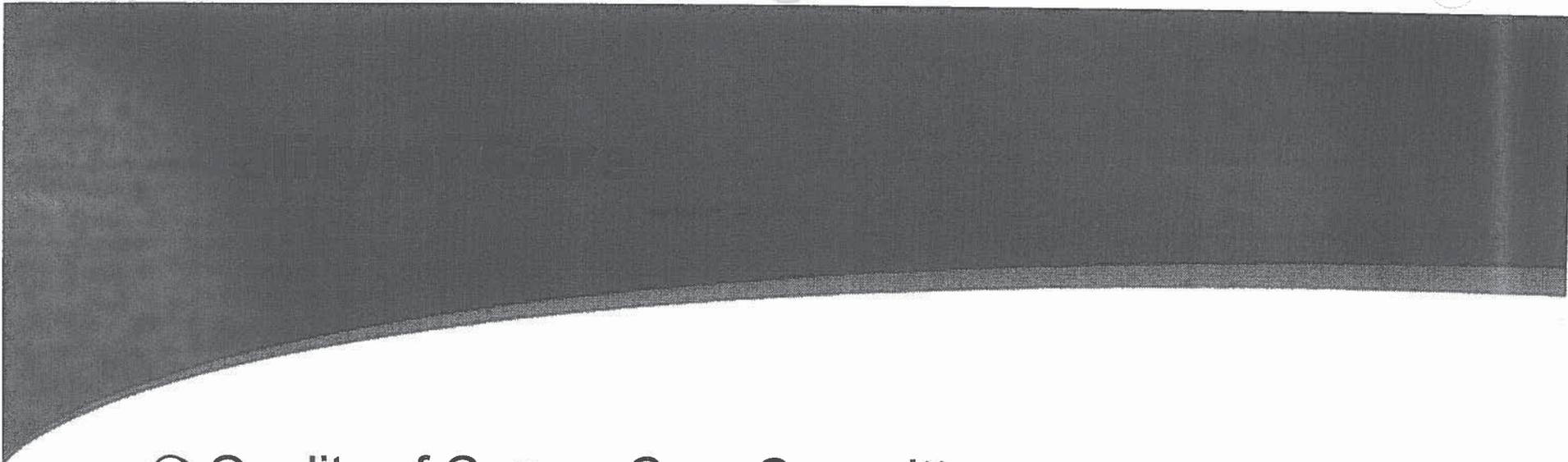
- Transfer of ASSIST

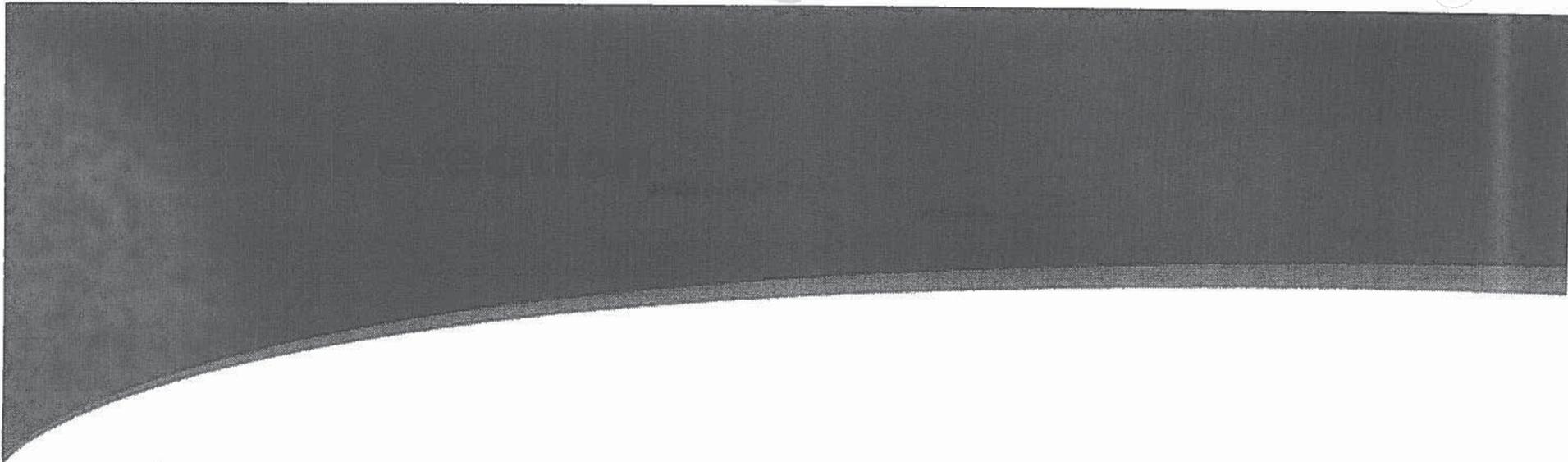
- Tobacco Control Surveillance

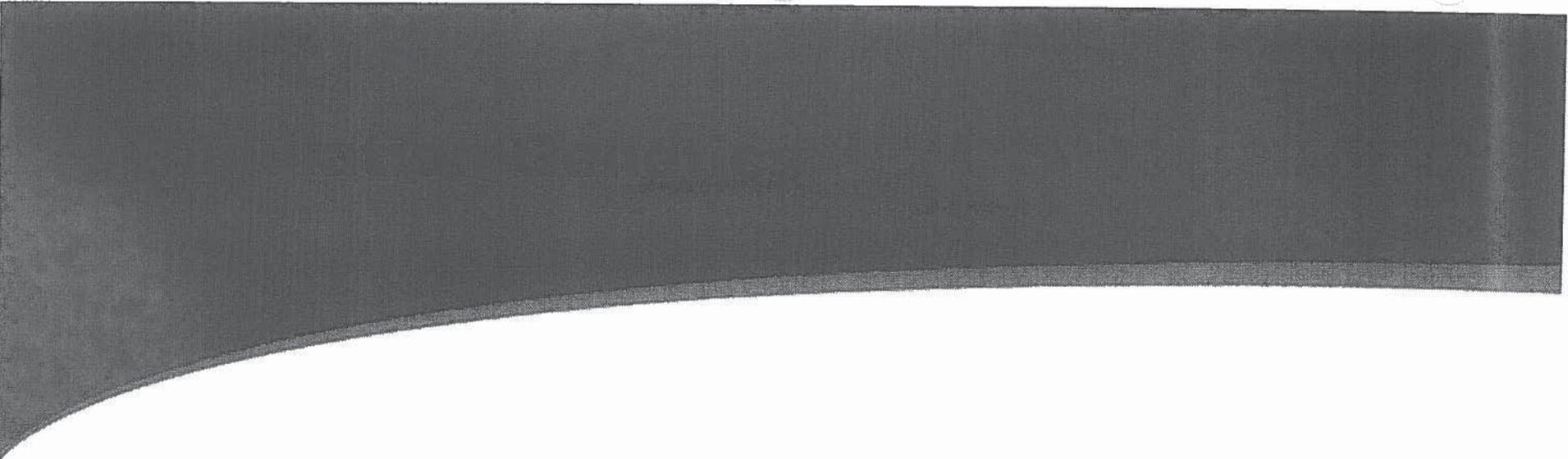


- Nutrition research

- Five-A-Day Program

- 
- Quality of Cancer Care Committee
 - Surveillance development
 - Interagency Dissemination Projects with HRSA and HCFA

- 
- Behavioral research in colorectal cancer screening
 - Guide to Community Preventive Services
 - Breast Cancer Screening Consortium

- 
- Genes and the Environment Extraordinary Opportunity
 - CDC HuGE Program

Closing the Discovery to Delivery Gap: Translating Research into Improved Outcomes (TRIO)

- Model and monitor impact of diffusion & dissemination on Year 2010 health promotion and cancer control objectives
- Collaboratively (e.g. ACS, AHRQ, CDC, HCFA, HRSA) promote adoption of evidence-based cancer control interventions by local, state and national service organizations
- Special focus on eliminating cancer health disparities among underserved

Can NCI best use surveillance or intervention evidence and health policy recommendations through dissemination or surveillance research evidence?

- How can NCI work best with ACS, CDC and NCHS to systematically review data from SEER and NPCR registries, NCHS vital statistics, BRFSS, NHIS, and other health data systems focusing on health disparities related to cancer?
- How can NCI, working with its partners, develop a surveillance evidence review process to identify compelling trends or disparities that merit dissemination?
- What are the best communication strategies for disseminating surveillance evidence to motivate action at the federal, state and local level?
- How can NCI work best with CDC and ACS to support mathematical modeling of cancer control intervention and health policy initiatives to estimate impact on reducing cancer health disparities?

Analysis Levels of Surveillance Evidence for Dissemination to Decision-making Levels

Analysis Levels

- National Level
- **Regional Level**
- State & Local Levels

Decision-making Levels

- HHS, Congress, public awareness (individuals)
- **Regional congressional caucuses/coalitions, state health departments, governors**
- state health departments, state legislatures, governors

ERIC MODEL

Getting Evidence-Based Interventions Into Practice: Roadmaps to the Next Frontier

GOAL: To increase the adoption, reach and impact of evidence-based interventions prevention and treatment strategies

▼
Science/Technology Push

Proving or improving the intervention for wide population use



▼
Delivery Capacity

Building the capacity of relevant systems to deliver the intervention



▼
Market Pull/Demand

Building a market and demand for the intervention

- ▼
- ¥ Increase the number of systems providing evidence-based interventions
 - ¥ Increase the number of practitioners providing evidence-based interventions
 - ¥ Increase the number of individuals receiving evidence-based interventions

▼
ULTIMATE GOAL

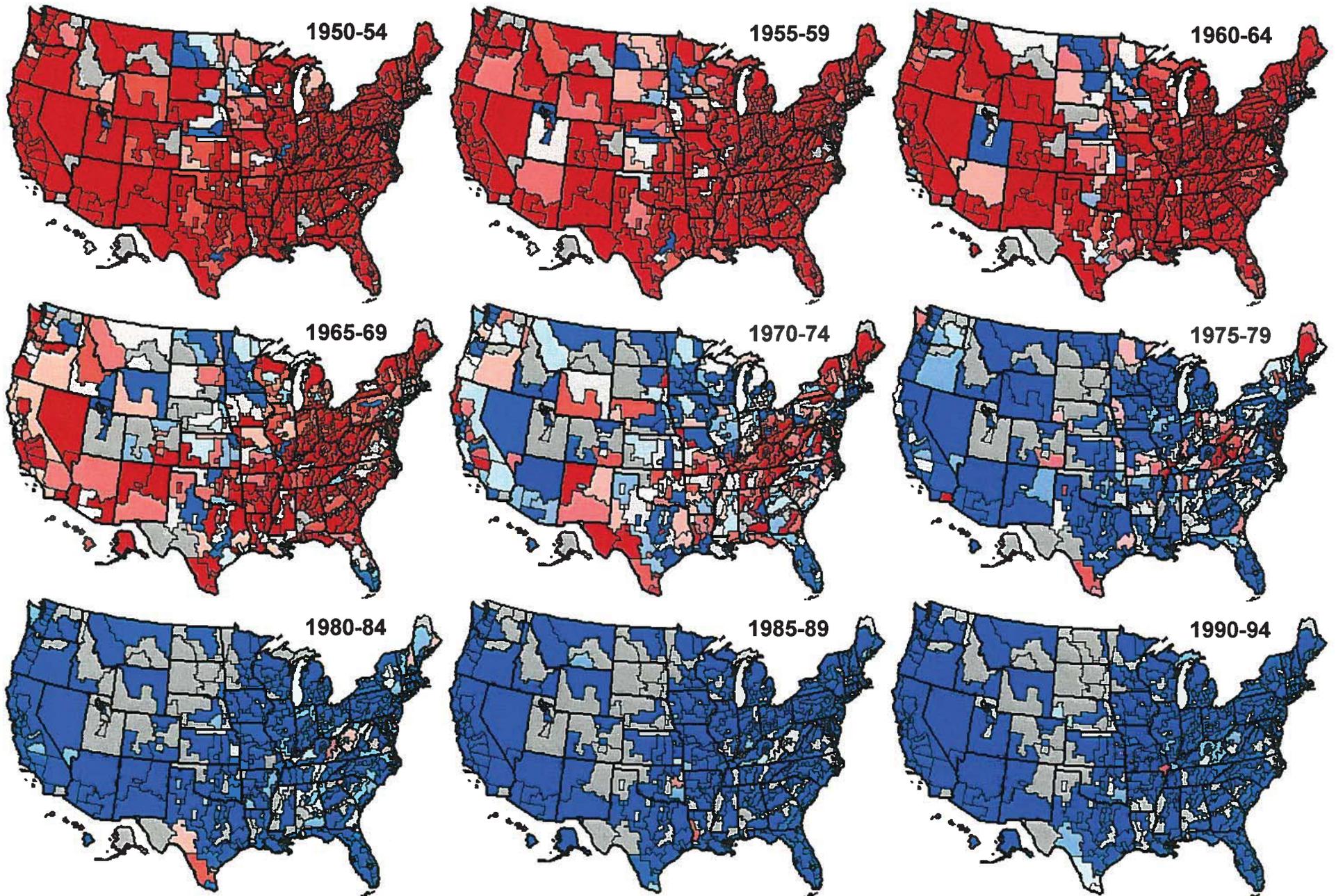
Improve population health and well being



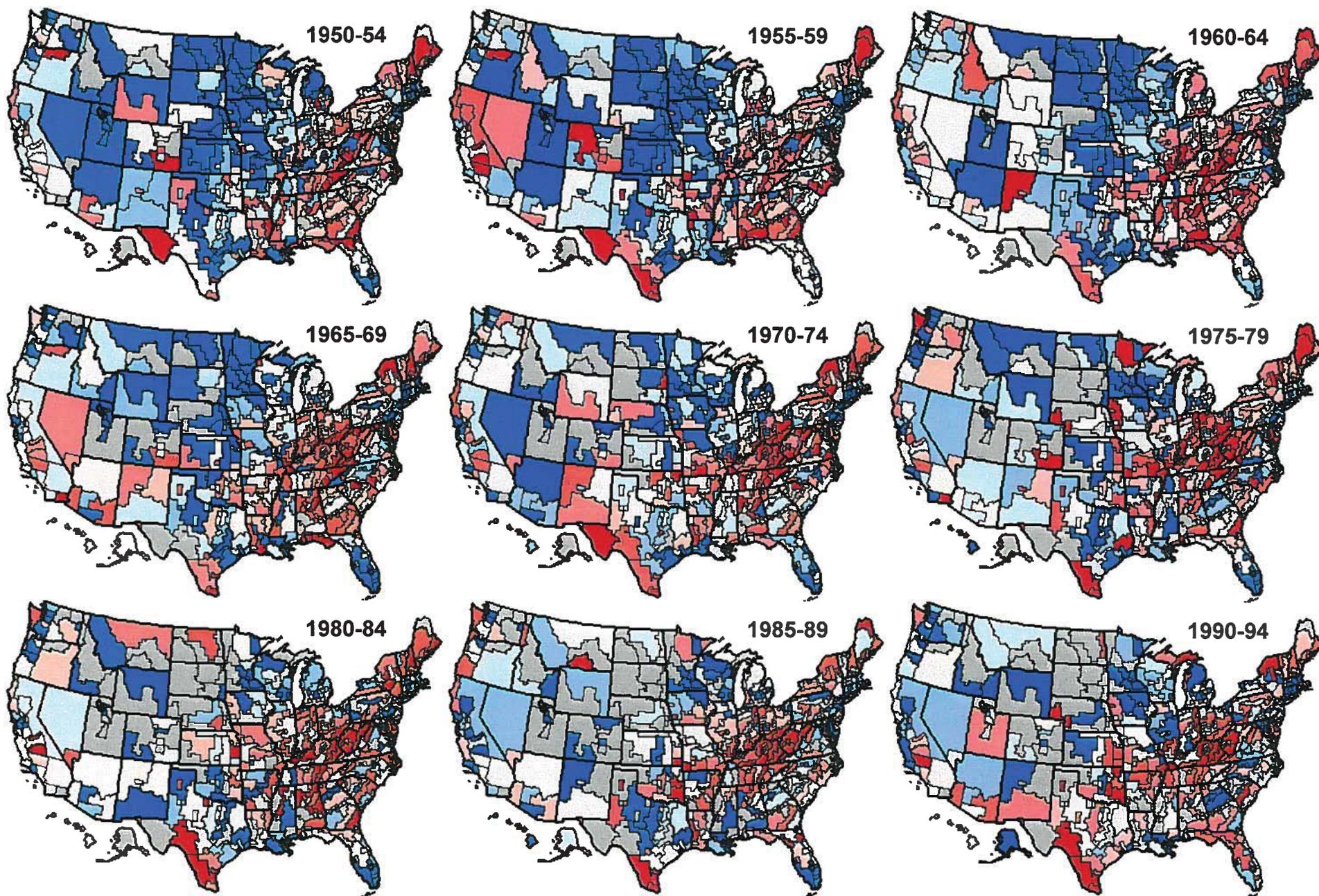
Adapted from RWJF, 1999

**NATIONAL
CANCER
INSTITUTE**

Cervix uteri cancer, white females, 1950-94, state economic area
Time trends



Cervix uteri cancer, white females, 1950-94, state economic area
Geographic patterns



Examples of Dissemination and Implementation of Evidence-based Practices in FY2001

○ Tobacco

- DCCPS TCRB Knowledge Transfer Team working with AHRQ and CDC to coordinate dissemination of AHRQ Smoking Cessation Guidelines and CDC Tobacco Prevention Chapter Guide to Community Preventive Services

○ Nutrition

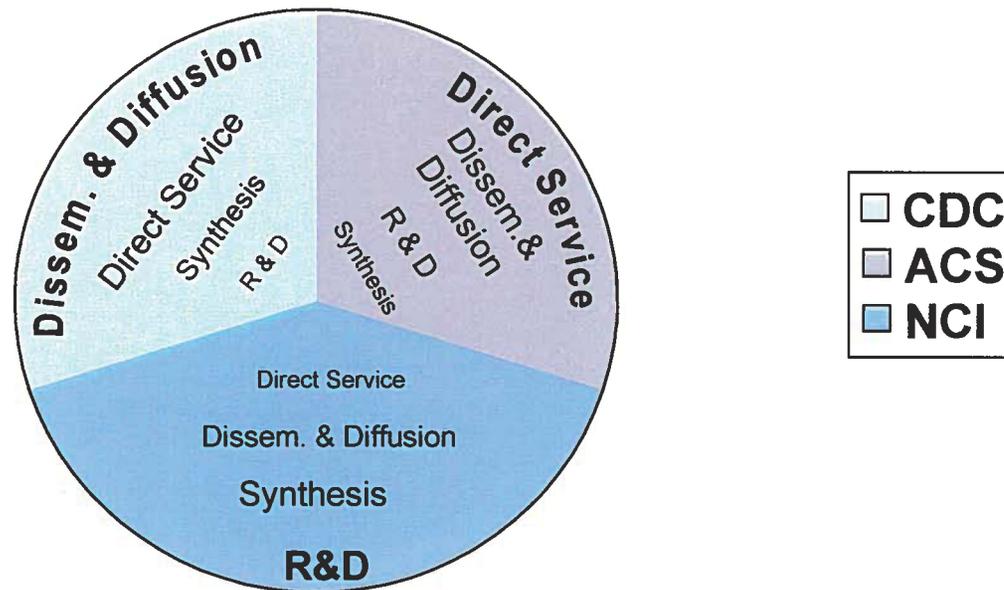
- DCCPS working with AHRQ to disseminate evidence report on the efficacy of interventions to modify dietary behavior related to cancer risk
- DCCPS & OC working with CDC, USDA and Private Industry to disseminate Five-A-Day

○ Cancer Screening

- DCCPS working with CDC to plan dissemination efforts for cancer control chapter in Guide to Community Preventive Services

Working Together To Make the Whole Greater Than the Sum of Its Parts

Model Partnership in Cancer Control



SUMMARY OF FUTURE NCI REVIEWED PROGRAM ANNOUNCEMENTS

BOARD	RFA/PA#	TITLE	DIVISION/PD/SRA	STATUS
	Mechanism			
05/01	PAR-99-006 R03	Small Grants Program for Behavioral Research in Cancer Control	DCCPS Dr. Meissner 435-2836	Published in the Guide Application Receipt, 4/20, 8/20
05/01	PAR-99-100 R21/R33	Innovative Technologies for the Molecular Analysis of Cancer: Phased Innovation Award	OD Dr. Dahl 496-1550 Dr. Vollberg 594-9582	Published in the Guide Application Receipt 11/21
05/01	PAR 99-101 R41,R42, R43, R44	Innovative Technologies for the Molecular Analysis of Cancer:	OD Dr. Dahl-496-1350 Dr. Vollberg 594-9582	Published in the Guide Application Receipt 11/20/00 & 3/21/01
05/01	PAR 99-102 R21/R33	Applications of Innovative Technologies for the Molecular Analysis of Cancer: Phased Application Award Initiative	OD Dr. Dahl-496-1550 Dr. Vollberg 594-9582	Published in the Guide Application Receipt, 11/21/00 and 3/21/01
05/01	PAR 99-103 R41,R42, R43, R44	Applications of Innovative Technologies for the Molecular Analysis of Cancer: SBIR/STTR	OD Dr. Dahl-496-1550 Dr. Vollberg 594-9582	Published in the Guide Application Receipt 11/21/00 and 3/21/01
5/01	PAR-99-108 K07	Cancer Prevention Control and Development Award	ODDES Dr. Gorelic 496-8580 Dr. Stein 496-7481	Published in the Guide Application receipt 10/1
5/01	PAR-99-167 P50	Specialized Program of Research Excellence in Human Cancer (SPORE)	ODDES Dr. Gomez 496-8528 Dr. Wojcik 402-2785	Published in the Guide. Breast & Prostate Cancer SPOREs: 2/1 Lung & Prostate Can SPOREs: 6/1 Prostate & Gen. Can SPOREs 10/1/
5/01	PAR 00-013 P01	Translation of Technologies to Detect Alteration in Human Tumors	DCTD Dr. Jacobson 402-4185	Published in the Guide Application Receipt 2/1, 6/1, and 10/1
5/01	PAR-00-011 P20	Planning Grants for NCI Cancer Research Centers	Dr. Holmes 496-8531 Dr. Maslow 496-2330	Published in the Guide Application Receipt Date Jan 14
5/01	PAR-00-025 R03	Cancer Prevention Research Small Grant Program	Dr. Portnoy 496-9569 Dr. Slesinski 594-1566	Published in the Guide Application Receipt 11/ 20 & 3/20

SUMMARY OF FUTURE NCI REVIEWED PROGRAM ANNOUNCEMENTS

BOARD	RFA/PA#	TITLE	DIVISION/PD/SRA	STATUS
	Mechanism			
5/01	PAR-00-030 R41,R42, R43, R44	Flexible System to Advance Innovative Research for Cancer Drug Discovery by Small Business FLAIR – SBIR	DCTD Dr. Johnson 496-8783 Dr. Meeker 594-1279	Published in the Guide Application Receipt 11/22/00
5/01	PAR-00-033 R25	Cancer Education Grant Program	CTB Dr. Begg 496-8580 Dr. Stein 496-7481	Published in the Guide Application Receipt 10/1
5/01	PAR-00-039 K05	The NCI Cancer Prevention and Population Sciences Established Investigator Award	ODDES Dr. Kimes 496-8537 Dr. Stein 496-7481	Published in the Guide Application Receipt 2/1, 6/1, 10/1
5/01	PAR-00-040 K08	Minorities in Clinical Oncology	Dr. Springfield 496-7344 Dr. Bell 496-7978	Published in the Guide Application Receipt 2/1, 6/1, 10/1
5/01	PAR-00-042 K23	Mentored Patient-Oriented Research for Underrepresented Minorities	ODDES Dr. Springfield 496-7344 Dr. Stein 496-7481	Published in the Guide Application Receipt 2/1, 6/1, 10/1
5/01	PAR-00-064 R25	Cancer Education and Career Development Program	ODDES Dr. Kimes 496-8580 Dr. Stein 496-7481	Published in the Guide Application Receipt, 10/00, 2/01
5/01	PAR-00-066 K01	The Howard Temin Award	CTD Dr. Vargosko 496-8580	Published in the Guide Application Receipt 6/1, 10/1, 2/1
5/01	PAR 00-137 R25, R44	Cancer Communication and Interactive Media Technology	DCCPS Dr. Dresser Dr. Pegues 594-1286	Published in the Guide. Application Receipt 11/28/00
5/01	PAR-01-003 R21, R33	Innovative Toxicology Models for Drug Evaluation	DCTD Dr. Johnson 496-8733 Dr. Vollberg 594-9582	Published in the Guide Application Receipt 1/11/01
5/01	PAR-01-004 R41, 42, 43, 44	Innovative Toxicology Models for Drug Evaluation	DCTD Dr. Johnson 496-8733 Dr. Vollberg 594-9582	Published in the Guide. Application Receipt 1/11/01
5/01	PAS-00-120 R01	Geographic-Based Research In Cancer Control and Epidemiology	DCCPS Dr. Erickson 496-9600 Dr. Slesinski 594-1566	Published in the Guide. Application Receipt 11/13/00 Review by CSR SEP

SUMMARY OF FUTURE NCI REVIEWED PROGRAM ANNOUNCEMENTS				
BOARD	RFA/PA#	TITLE	DIVISION/PD/SRA	STATUS
	Mechanism			
5/01	PAS-00-121 R03	Small Grants for Geographic- Based Research in Cancer Control and Epidemiology	DCCPS Dr. Erickson 496-9600 Dr. Slesinski 594-1566	Published in the Guide. Application Receipt 11/13/00 Review by CSR SEP

Full text information is available on line at the following URL: <http://grants.nih.gov/grants/guide/pa-files/index.html>

SUMMARY OF FUTURE REQUEST FOR APPLICATIONS				
BOARD	RFA/PA#	TITLE	DIVISION/PD/SRA	STATUS
	Mechanism			
5/01	CA-00-502 P30 Letter RFA	Innovative Cancer Complementary and Alternative Medicine Initiative in Cancer Centers	ODDES Dr. Pham 496-3866 Dr. Lovinger 496-7987	Application Receipt 11/13/00
05/01	CA-01-011 R21/R33	Technologies for Comprehensive, Quantitative Protein Analysis in Human Tumors	DCTD Dr. Song 402-4185 Dr. Pegues 594-1286	Published in the Guide Application Receipt date 1/18/01 August /2001 NCAB mail ballot
05/01	CA-01-012 R24	Small Animal Imaging Resource Programs	DCTD Dr. Croft 496-9531 Dr. Bielat 496-7576	Published in the Guide. Application Receipt Date 11/28/00
05/01	CA-01-013 U01	Cancer Care Outcomes Research and Surveillance (CanCORS) Consortium	DCCPS Dr. Portnoy 496-5662 Dr. Palekar 496-7575	Published in the Guide Application Receipt Date 1/24/2001. This is an August 2001 NCAB mail ballot
10/01	CA-01-014 P50	InVivo Cellular and Molecular Imaging Centers (ICMICs)	DCTD Dr. Menkens 496-9531	Published in the Guide. Application Receipt date 11/28/00
10/01	CA-01-015 P20	Planning Grant for Collaborations on Nutritional Modulation of Genetic Pathways	DCP Dr. Milner 496-8573	Published in the Guide. Application Receipt date 2/14/01
10/01	CA-01-016 R41, R42, R43, R44	Development of High-Yield Technologies for Isolating Exfoliated Cells in Body Fluids	DCP Dr. Srivastava 496-3983	Published in the Guide. Application Receipt 4/10/01
10/01	CA-01-017 R01	Research in State and Community Tobacco Control Interventions	DCCPS Dr. Vollinger 496-0273	Published in the Guide. Application Receipt 2/13/01
10/01	CA-01-018 R21	Exposure Assessment Methods for Cancer Research	DCCPS Dr. Iwamoto 496-0273	Published in the Guide. Application Receipt 4/19/01

Full text information is available on line at the following URL: <http://grants.nih.gov/grants/guide/rfa-files/index.html>