

Cancer Prevention Fellowship Program

Division of Cancer Prevention



National Institutes of Health
Department of Health and Human Services

Executive Plaza



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USA



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Mission

Through coursework, mentored research experiences, and professional development activities, the **Cancer Prevention Fellowship Program** provides a strong foundation for physicians and scientists to train in the field of cancer prevention and control.



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Cancer Prevention Fellowship Program Staff

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Cancer Prevention Fellowship Program

Structure and Activities

- Master of Public Health Training
- Summer Curriculum in Cancer Prevention
- Molecular Prevention Laboratory Training
- Mentored Research at the NCI
- Colloquia and Fellows' Research Meetings
- Grantsmanship
- Professional Development
- Annual Fellows' Scientific Symposium



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Eligibility

- Citizen or a permanent resident of United States eligible for citizenship at time of application
- MD, DDS, DO, DVM, JD, PhD, or other doctoral degree in a related discipline (epidemiology, biostatistics, ethics, philosophy, or the biomedical, nutritional, public health, social, or behavioral sciences)
- Foreign education must be comparable to that received in United States



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How to Apply on-line

- Personal statement of research goals
- Curriculum vitae and bibliography
- Permanent residents should submit proof of eligibility for citizenship
- Four current, original letters of reference
- Copies of all academic transcripts



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Cancer Prevention Fellowship Program

Demographics 9/87 - 11/02

■ Fellows in program to date	133
■ Age (average)	35
■ Women	95 71%
■ Minorities	40 30%
■ MDs or equivalent	31 23%
■ PhDs or equivalent	102 77%
■ Recent doctorate at entry	65 49%
■ Completed Program	85
■ Currently in Program	48

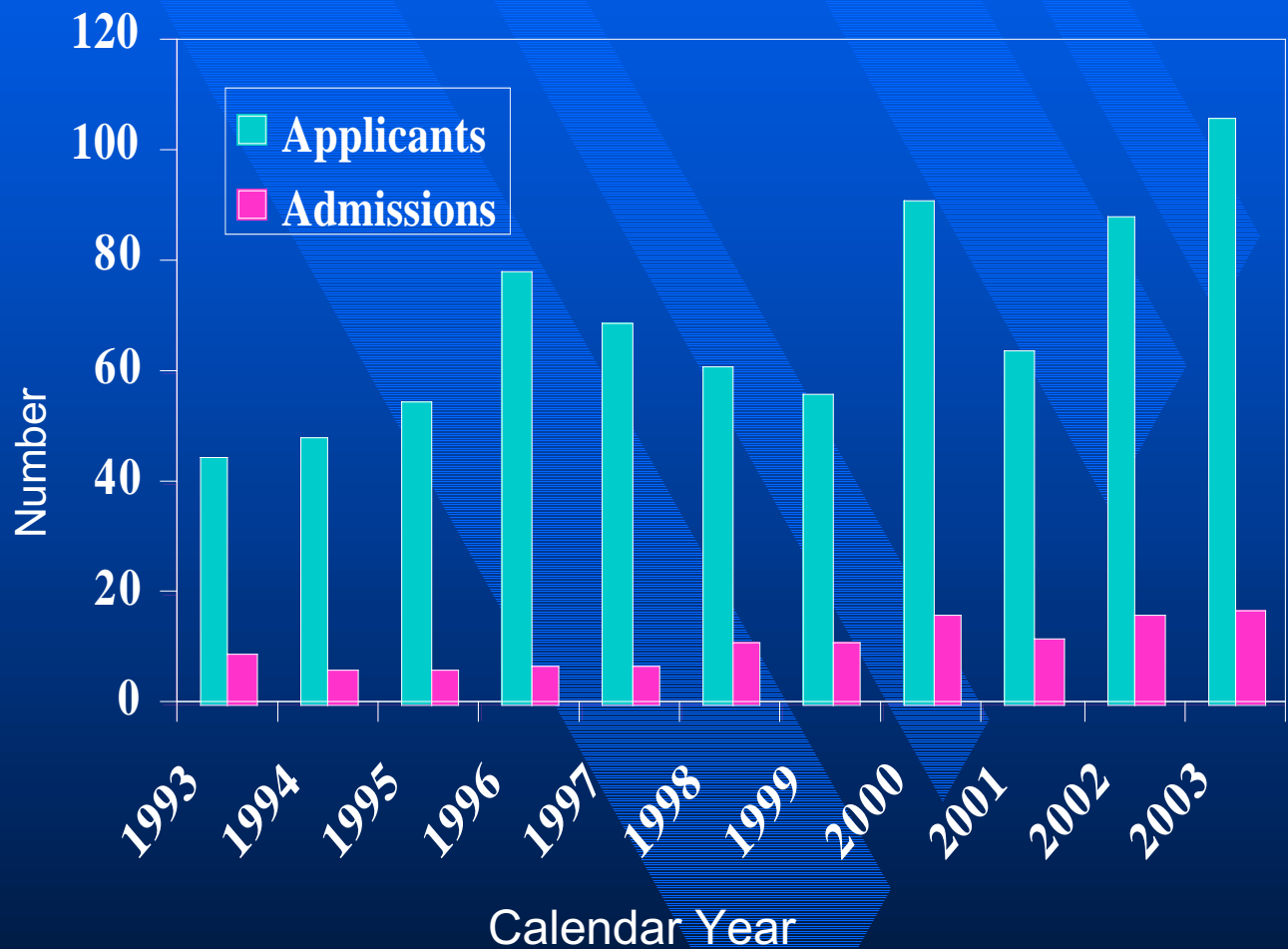


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Applicants and Entering Fellows, 1993-2003



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Master of Public Health Training

■ Johns Hopkins Univ.	49
■ Harvard Univ.	13
■ George Washington Univ.	11
■ Univ. of North Carolina	6
■ Univ. of California, Berkeley	2
■ Univ. of Pittsburgh	2
■ Univ. of Alabama	2
■ Other Schools	9



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Summer Curriculum

- Principles and Practice of Cancer Prevention and Control (4 weeks)
- Molecular Prevention (2 weeks)
- Keynote Lecture
- Modular structure
- Lecturers: senior scientists and practitioners
- Hands-on Lab exercises
- International participants



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Principles and Practice

Course Modules

- Introduction to the Cancer Problem
- Biometric Methodology
- Diet, Nutrition and Chemoprevention
- Prevention and Control of Organ-Specific Tumors
- Causal Inference and Evidence-based Decisions
- Health Disparities and Community Interventions
- Occupation and Environment
- Cancer Prevention outside the NCI



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Molecular Prevention

Course Lectures

- **Cancer and Biology**
- **Oncogenes and Tumor Suppressor Genes**
- **DNA Damage-Response Genes**
- **Xenobiotic Metabolism**
- **Angiogenesis**
- **Apoptosis**
- **Epigenetic Changes - Cell Signaling**
- **Hormonal Carcinogenesis**
- **Animal Models**
- **Molecular Epidemiology**



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Mentored Research

Preceptor availability

- Division of Cancer Prevention
- Center for Cancer Research
- Division of Cancer Control and Population Sciences
- Division of Cancer Epidemiology and Genetics
- Office of the Director, NCI



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Mentored Research

Selected research projects

- Underserved population intervention research
- Issues related to cancer genetic testing and prevention
- Tobacco control research
- Dietary surveillance
- Epidemiologic methodology
- Biomarker and etiologic determinants of cancer



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Mentored Research

- Pesticide exposures
- Cancer screening analysis and methodology
- Analysis of high-risk populations in China
- Nutrition/Chemoprevention studies in transgenic mouse models
- Molecular mechanisms of preventive agents



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Molecular Prevention Laboratory

Rationale

- Research training for lab-based fellows
- Pilot data for fellows' grants
- Home base: summer lab practicum
- CCR/DCP research program

Research Topics

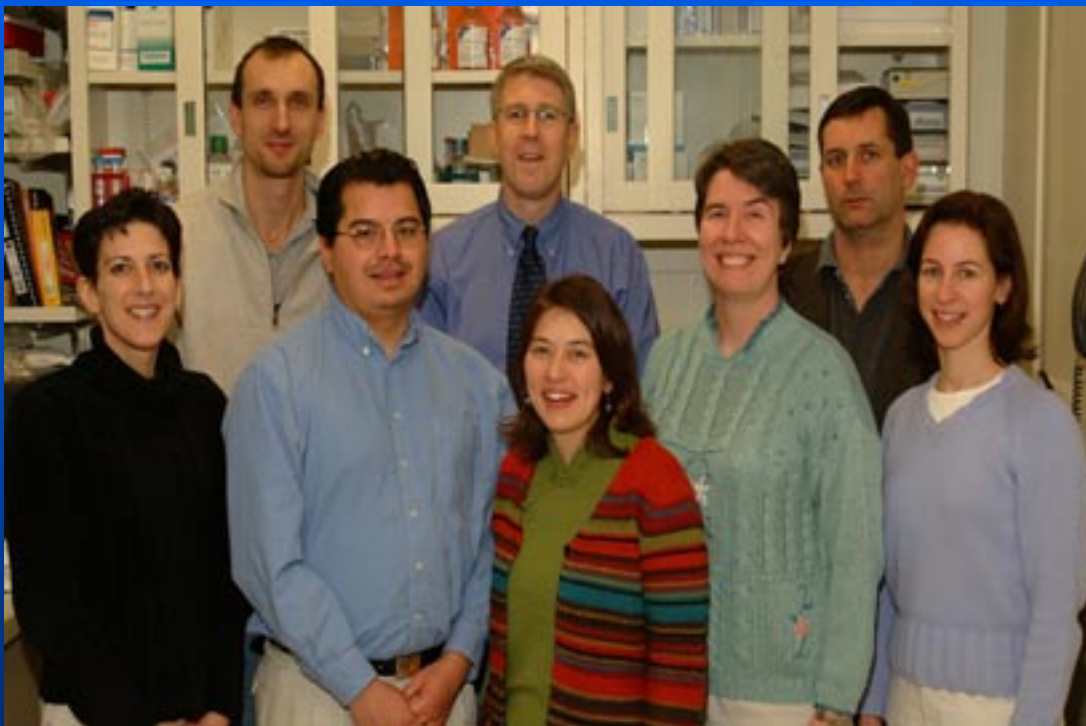
- Mechanism-based prevention in transgenic mouse models
- Mechanisms of energy balance/carcinogenesis (IGF path)
- Diet/immune prevention studies



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Molecular Prevention Laboratory NCI Cancer Prevention Fellowship Program



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Leadership and Professional Development Workshops

- Time Management
- Effective Presentations Course
- Grants Workshop and Grant-Writing Club
- Scientific Writing
- Authorship and Ethics Issues
- Mentoring



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Post Fellowship Employment:

First job placement (n=85)

■ Cancer Centers (n = 9)	11%
■ Universities (n = 15)	18%
■ Government (n = 47)	56%
■ Medical Practice (n = 5)	6%
■ Private Industry (n = 9)	11%



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Post Fellowship Employment:

Current placement (n=85)

■ Cancer Centers (n = 5)	6%
■ Universities (n = 21)	25%
■ Government (n = 38)	45%
■ Medical Practice (n = 5)	6%
■ Private Industry (n = 11)	13%
■ Deceased (n = 2)	2%
■ Other (n=3)	4%



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Cancer Prevention Fellowship Program Clinical Track

- Physicians, nurses and other clinicians with doctoral degrees
- MS in clinical research or MPH
- Clinical privileges
- Clinically-oriented preceptors
- Elective rotations (e.g. clinical trial protocol review)



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Clinical Prevention Research Opportunities

- Chemoprevention trials
- Screening trials
- Design, implementation and analysis of clinical prevention trials
- Translational research
- Nutritional intervention trials
- Ethical issues in clinical prevention
- Evaluation and outcomes of clinical prevention trials



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How to contact us

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