



NCI Division of Cancer Biology

Introduction to the NIH Grants System and NCI's Division of Cancer Biology

Christine Nadeau Ph.D. Program Director NCI/NIH

Overview of the NCI

- The federal government's principal agency for cancer research and training
- Created by the National Cancer Act in 1937
- One of 27 Institutes and Centers at the NIH
 - 3 of these do not have funding authority including the Center for Scientific Review
- NCI has over 3,500 full-time staff with diverse roles and activities
- \$400,000 budget in 1938; \$6.9 billion budget in FY22
- NCI has 24 Extramural Divisions/Offices/Centers, 1 Intramural Division, 1 Intramural Center, and 10 Advisory Boards and Groups
- Primarily located in Bethesda, Rockville, and Frederick, Maryland





- The National Cancer Institute leads, conducts, and supports cancer research across the nation to advance scientific knowledge and help all people live longer, healthier lives.
- NCI manages a broad range of research, training, and information dissemination activities that reach across the entire country, meeting the needs of all demographics – rich and poor, urban and rural, and all racial/ethnic populations.

https://www.cancer.gov/about-nci/overview#mission-statement



Organization of the National Cancer Institute



Director Monica Bertagnolli, MD

NCI Office of the Director

- Strategic planning and direction
- Budget and administration
- Program evaluation
- Special Programs

Advisory Boards and Groups

- Scientific guidance
- Approval of funding
- Program evaluation

National Cancer Institute FY2022 budget: \$6.9 Billion

Extramural Program

- Manages grant funds
- Develops new programs
- Portfolio analysis
- Peer Review

Intramural Program

- Laboratory studies
- Clinical studies

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Organization of the National Cancer Institute



- The <u>NCI Intramural Program</u> includes the <u>DCEG</u> and the <u>CCR</u>.
- The DCEG conducts population-based research focused on the genetic and environmental determinants of cancer, as well as cancer prevention and control.
- The CCR, consisting of more than 50 branches and laboratories, performs basic, translational, and clinical research in cancer and AIDS.

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- The <u>NCI Extramural Program</u> consists of five divisions. Four of these divisions coordinate grant activities in <u>cancer biology</u>, <u>cancer control and population sciences</u>, <u>cancer prevention</u>, and <u>cancer treatment and</u> <u>diagnosis</u>.
- The <u>DEA</u> manages the peer review process and provides support for funding opportunity development and portfolio analysis.

The Division of Cancer Biology (DCB)





https://www.cancer.gov/about-nci/organization/dcb

DCB Supported Research Programs









Metastasis Research Network Using systems level approaches to understand cancer metastasis















https://www.cancer.gov/about-nci/organization/dcb/researchprograms/dcb-research-programs



DCB Supported Resources

• DCB supports a variety of <u>resources</u> that are available to scientists studying cancer to aid in research.

<u>The NCI Mouse Repository</u>
<u>GM/CA X-ray Beamline</u>
<u>Chernobyl Tissue Bank (CTB)</u>
<u>The International Registry of Werner Syndrome</u>
<u>NIH MHC Tetramer Program</u>
<u>Reagents Available to NCI-funded Researchers</u>
<u>Cancer Complexity Knowledge Portal</u>
<u>Biomedical Citizen Science and Crowdsourcing: The NIH Citizen Science Working Group</u>

• DCB supports webinar series, workshops, and opportunities such as the DCB Summer Undergraduate Research Program

Session 2: DCB/NCI Research Resources

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Lillian Kuo, PhD Program Director



Dave Miller, PhD Program Director





NCI Supported Resources

• NCI also provides support for pursuing a successful research enterprise, including additional funding opportunities and help with trainees.











Nas Zahir, PhD Cancer Training Branch



Keren Witkin, PhD Program Director







When to talk to your Extramural Team



Keynote: Things they don't tell you when you get your first R01



Maureen Murphy, PhD Ira Brind Professor and Program Leader Molecular and Cellular Oncogenesis Program Ellen and Ronald Caplan Cancer Center The Wistar Institute

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The objectives of this workshop:

- Gain a deeper understanding of the roles of the extramural staff
- Understand your responsibilities as an NCI funded investigator
- Gain insight into the review and renewal grant processes
- Ways to promote your science and participate in outreach activities

FUNDING

GRANT.

- Meet your peers in Round Table Discussions
- Meet your program directors and grants administration staff.







Congratulations, New Investigators!

Welcome to the New Grantee Workshop!







www.cancer.gov/espanol

