

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

Yin Liu Ph.D.

Program Director

NCI/NIH

Overview of the NCI

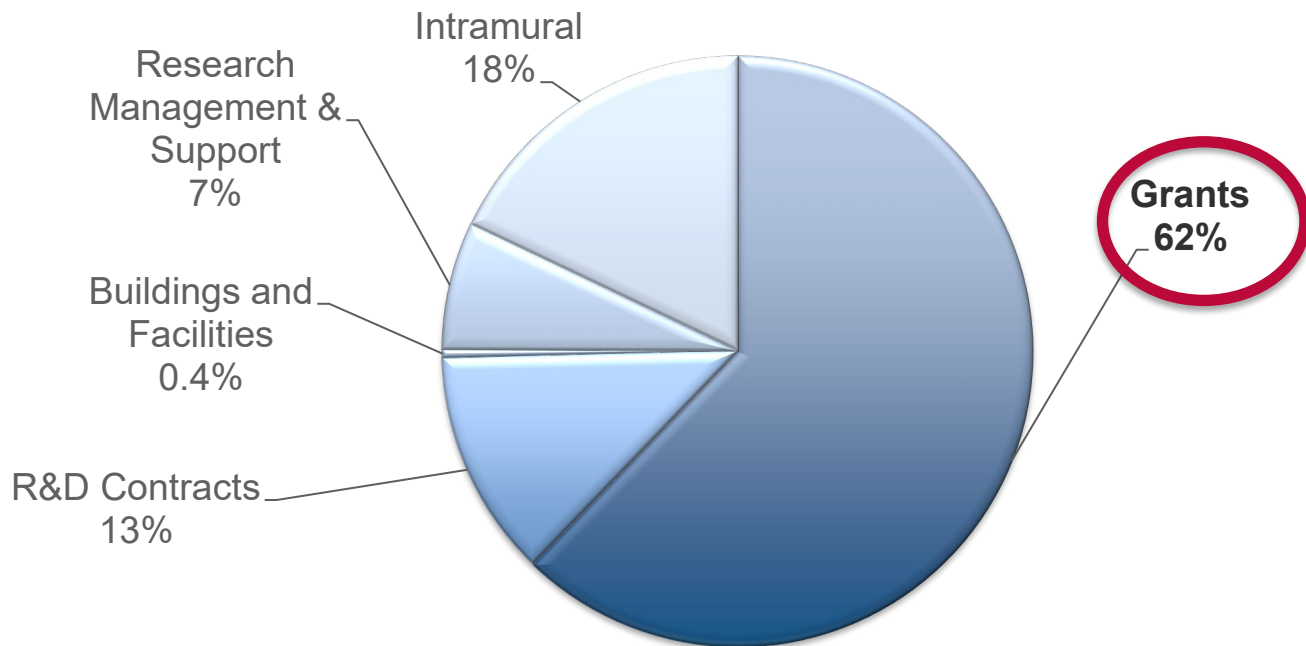
- Created by the National Cancer Act in 1937
- One of 27 Institutes and Centers (ICs) at the NIH
- \$400,000 budget in 1938; \$7.22 billion budget in FY24

NCI Mission:

- 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 populations.

NCI: FY 2023 Total Budget (Obligations)

Grants' Share: 62 Percent of Total Budget (Est.)



FY23 NCI Total Appropriation: Approx. \$7.0 Billion
Includes Moonshot (Cures) and Excludes Serology

Organization of the National Cancer Institute



NCI Office of the Director

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

Advisory Boards

- Scientific guidance
- Approval of funding
- Program evaluation

Director

**W. Kimryn Rathmell,
MD, PhD**

Extramural Program

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

Intramural Program

- Laboratory studies
- Clinical studies

Organization of the Extramural Programs at the National Cancer Institute

Extramural Programs
(~75% budget, ~7000 grants)

Division of
Cancer Biology
(DCB)

Division of
Cancer
Treatment and
Diagnosis
(DCTD)

Division of
Cancer
Prevention
(DCP)

Division of
Cancer Control
and Population
Sciences
(DCCPS)

Division of
Extramural
Activities
(DEA)

DCB (~2000
grants)

Session 1:
Post-Award
Administrati
on
**Amy
Bartosch**

Office of the
Director: Office
of Grants
Administration
(OGA)

Organization of the Extramural Programs at the National Cancer Institute (cont'd)

- The [NCI Extramural Program](#) consists of five divisions. Four of these divisions coordinate grant activities in [cancer biology](#), [cancer control and population sciences](#), [cancer prevention](#), and [cancer treatment and diagnosis](#).
- The [DEA](#) manages the peer review process for specific NCI initiatives and provides support for funding opportunity development and portfolio analysis.
- The [OGA](#) manages the business aspect of NCI awards and ensures the grantee and the NCI fulfill and comply with all legal requirements, regulations, and administrative policies.

Division of Cancer Biology (DCB)



Office of the Director
Director:
Daniel Gallahan, Ph.D.
Deputy Director:
Shannon Hughes, Ph.D.



Cancer Cell Biology Branch

Chief:
Rihab Yassin, Ph.D.

Cancer Immunology, Hematology and Etiology Branch

Chief:
Kevin Howcroft, Ph.D.

DNA and Chromosome Aberrations Branch

Chief:
Ian Fingerman, Ph.D.

Biophysics, Bioengineering, and Comp Sciences Branch

Chief:
Jennifer Couch, Ph.D.

Tumor Biology and Microenvironment Branch

Chief:
Jeff Hildesheim, Ph.D.

Tumor Metastasis Branch

Chief:
Joanna Watson, Ph.D.

DCB Website Provides useful information for Grantees

 Search

- About Cancer ▾
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Division of Cancer Biology

The Division of Cancer Biology (DCB) supports basic research in all areas of cancer biology at academic institutions and research foundations across the United States. As part of the National Cancer Institute, DCB provides funding for research that investigates the basic biology behind cancer.

[Research Areas](#)

[Funding Opportunities](#)

[Current Initiatives](#)



Latest Opportunities and Events

[Research Projects to Enhance Applicability of Mammalian Models for Translational Research](#)

Supports projects to expand, improve, or transform the utility of mammalian cancer and tumor models for translational research.

[Notice of Special Interest \(NOSI\): Adaptive Biomaterials for Cancer Biology](#)

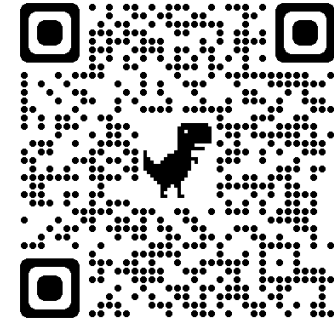
Promotes research focused on the development, adaptation, or integration of innovative biomaterials for cancer biology.

[Upcoming DCB Events](#)

Learn about upcoming public workshops, webinars, and other events related to fundamental cancer research.



Claire McCarthy, PhD



DCB Staff and Their Responsibilities/Interest Areas on DCB Websites

Talk to your program director!

Tumor Metastasis Branch

The Tumor Metastasis Branch plans, develops and directs the Division's research program in tumor metastasis, focusing on mechanisms of metastasis and metastatic niches, circulating tumor cells, dormancy, and angiogenesis and vasculogenesis.

More information on research supported by this branch is available in the [Research section](#).

Phone: (240) 276-6220

Fax: (240) 276-7866

Name & Position	Email	Areas of Expertise
Joanna Watson, Ph.D. <i>Chief</i>	watsonjo@mail.nih.gov	Circadian rhythms, cancer cachexia, circulating tumor cell biology, and mechanisms of metastasis
Grace Ault, Ph.D. <i>Program Director</i>	aultg@mail.nih.gov	Cell invasion and migration, epithelial-mesenchymal transition, metabolic adaptation to the microenvironment, and growth factor signaling
Justin Benavidez, Ph.D. <i>Program Director</i>	justin.benavidez@nih.gov	Biological sciences, developmental biology, and cancer metastasis
Bruniide Gril, Ph.D. <i>Program Director</i>	grilbrun@mail.nih.gov	Brain metastases, blood-brain/tumor barrier, experimental therapies for metastasis, and receptor tyrosine kinase signaling
Christine Nadeau, Ph.D. <i>Program Director</i>	christine.nadeau@nih.gov	Mammalian models of cancer, Notch signaling, breast cancer, and systemic immunity
Elizabeth Snyderwine, Ph.D. <i>Program Director</i>	snyderwe@mail.nih.gov	Xenobiotic and cellular metabolism, metastasis, aging biology, and the bone microenvironment

Session 1:
Communicating
with your
program director

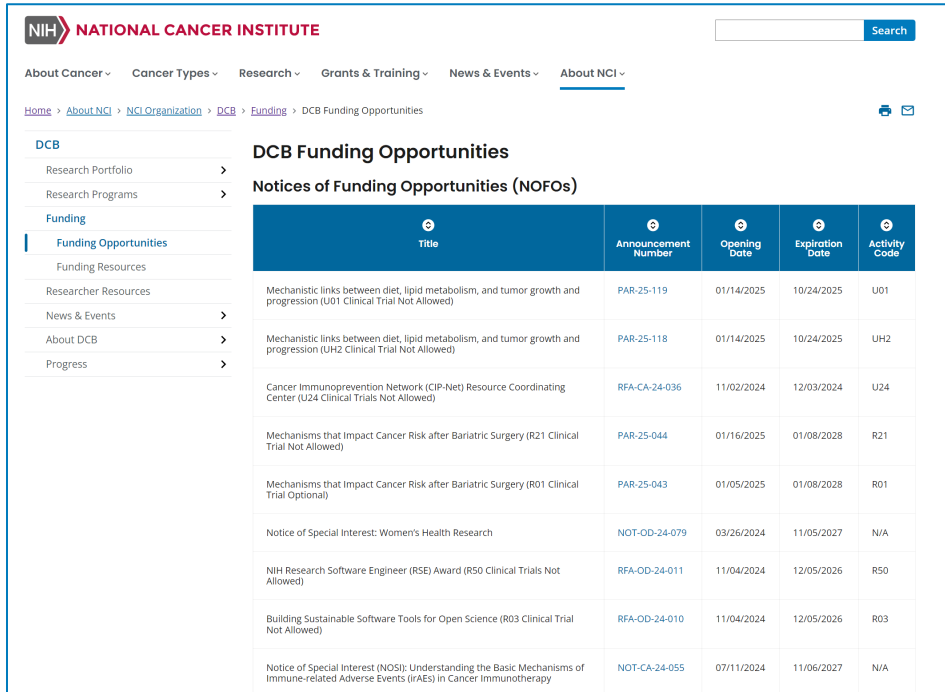


Natalia Mercer, PhD

DCB Funding Opportunities on DCB Websites

NOFO: Notice of Funding Opportunity

Session 3:
Additional
funding
opportunities



NIH NATIONAL CANCER INSTITUTE

Search

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DCB

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 - Funding Resources
- Researcher Resources
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DCB Funding Opportunities

Notices of Funding Opportunities (NOFOs)

Title	Announcement Number	Opening Date	Expiration Date	Activity Code
Mechanistic links between diet, lipid metabolism, and tumor growth and progression (U01 Clinical Trial Not Allowed)	PAR-25-119	01/14/2025	10/24/2025	U01
Mechanistic links between diet, lipid metabolism, and tumor growth and progression (UH2 Clinical Trial Not Allowed)	PAR-25-118	01/14/2025	10/24/2025	UH2
Cancer Immunoprevention Network (CIP-Net) Resource Coordinating Center (U24 Clinical Trials Not Allowed)	RFA-CA-24-036	11/02/2024	12/03/2024	U24
Mechanisms that Impact Cancer Risk after Bariatric Surgery (R21 Clinical Trial Not Allowed)	PAR-25-044	01/16/2025	01/08/2028	R21
Mechanisms that Impact Cancer Risk after Bariatric Surgery (R01 Clinical Trial Optional)	PAR-25-043	01/05/2025	01/08/2028	R01
Notice of Special Interest: Women's Health Research	NOT-OD-24-079	03/26/2024	11/05/2027	N/A
NIH Research Software Engineer (RSE) Award (R50 Clinical Trials Not Allowed)	RFA-OD-24-011	11/04/2024	12/05/2026	R50
Building Sustainable Software Tools for Open Science (R03 Clinical Trial Not Allowed)	RFA-OD-24-010	11/04/2024	12/05/2026	R03
Notice of Special Interest (NOSI): Understanding the Basic Mechanisms of Immune-related Adverse Events (irAEs) in Cancer Immunotherapy	NOT-CA-24-055	07/11/2024	11/06/2027	N/A



Sharmistha Ghosh-Janjigian, PhD
Program Director

DCB Supported Resources

- DCB supports a variety of [resources](#) that are available to scientists studying cancer to aid in research.
- DCB supports webinar series, workshops, and opportunities

Session 3:
DCB/NCI
Research
Resources



Stefan Maas, PhD
Program Director



Steven Becker, PhD
Program Director

Session 4:
Outreach
Activities

- NCI is dedicated to building upon the critical impact sharing data has on accelerating treatment for cancer

Session 3: NCI
requirement
regarding data



Justin Benavidez, PhD
Program Director



Adrian Lee, PhD
University of Pittsburgh

Session 3:
Importance
of Sharing
Resources
and Data

DCB Supported Resources (cont'd)

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

Session 2:
Awards to
support
trainees



Nas Zahir, PhD
Cancer Training Branch
CCT

Session 2: Funding
Opportunities for Cancer
Health Disparities
Research



Tiffany Wallace, PhD
CRCHD



Behrouz Davani, PhD
CRCHD

Grant Application life cycle



YOU STARTED HERE!

YOU ARE HERE

Administrative review
by Program & Grants
Management Staff

2nd tier of review:
Advisory Board/Council
Institute Director

1st tier of review:
Study Section

Division of Receipt and Referral (**DRR**)
Center for Scientific Review (**CSR**)
assigns application to a Review Group
and an NIH Institute

NCI Funding Selections

Grant Activity Codes	Funding Methods	Authority	Selection Considerations
R01, R03, R15, R21	Payline: <i>Scored applications are sorted in rank order by score and selected up to an established score or percentile (Payline)</i>	NCI Leadership	Percentile/Score, Commitment to ESI investigators
P01, U01, RFAs,	Non-Payline	NCI Leadership	Scientific merit, novel or promising scientific approach, etc.
R01, R03, R15, R21	Select Pay	NCI Division, Offices, and Centers (DOCs)	Scientific merit, filling gaps in cancer research portfolio, etc.

When to talk to your Extramural Team

Session 4:

Program perspective of review
Michael Weinreich, PhD
Program Director

Session 1:
Funding of
your NCI
grant



Session 1:
Communicating
with your PD



Natalia Mercer, PhD
Program Director

Session
4:
Peer
Review



Jennifer Sanders, PhD
Center for Scientific Review



Amy Bartosch
Grants Management Specialist

Keynotes

Keynote I: Day 1- 11:20am



W. Kimryn Rathmell, MD, PhD
Director, National Cancer Institute

Keynote II: Day 2- 9:10 am



Elana Fertig, MBBS
Director, Institute for Genome Science
University of Maryland

The objectives of this workshop:

- Better understanding of the roles of the extramural staff
- Establish connection with program, grants officials, and other PIs
- Gain insight about grant processes and opportunities
- Understand your responsibilities as an NCI funded investigator
- Ways to promote your science and participate in outreach activities

Congratulations, New Grantees!

Welcome to the New Grantee Workshop!



Thank You



**NATIONAL
CANCER
INSTITUTE**

cancer.gov

cancer.gov/espanol