Professional Development Workshop

August 3–4, 2023 | NCI Shady Grove, Rockville, MD

Funding Opportunities in Cancer Biology

NIH NATIONAL CANCER INSTITUTE

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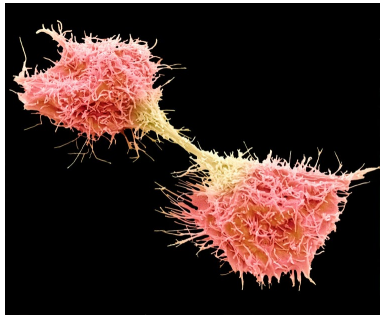
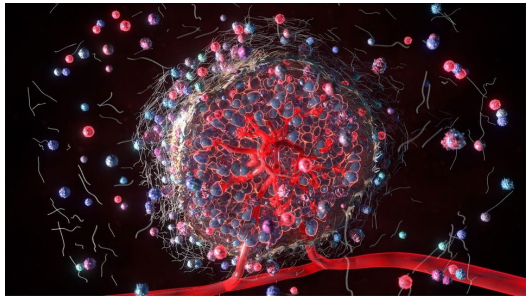
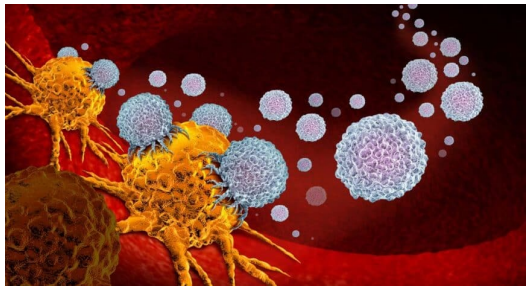
DCB Covers Research Across the Cancer Spectrum and Biological Scales





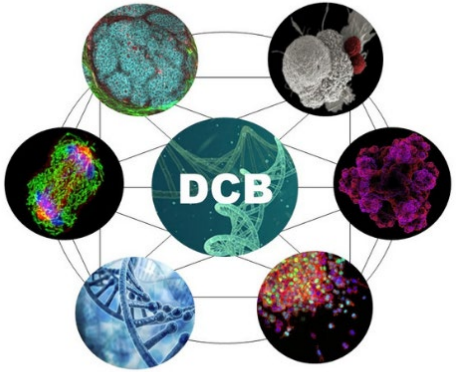


Molecular **Cellular** **Microenvironment**

Organelle **Tumor** **Organ Systems**

Current NCI Funding Opportunities in Cancer Biology

Notices of Funding Opportunities (NOFOs) supported by the NCI Division of Cancer Biology can be found at cancer.gov/dcb



Funding Opportunities Related to *Cancer Health Disparities*

PAR-21-322, PAR-21-323 & PAR-21-324:
Basic Research in Cancer Health Disparities (R01, R21, & R03)

Support basic, mechanistic research into the biological/genetic causes of cancer health disparities.

NOFOs and
Fact sheets

PAR-22-114:
Administrative Supplements to Support Cancer Disparity Collaborative Research

Promotes new cancer disparities research among investigators who do not normally conduct it and encourages the partnership of experienced cancer research investigators with cancer disparities-focused researchers

DCB Contacts for NOFOs related to *Cancer Health Disparities*

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Funding Opportunities Related to *Diet and Metabolism*

PAR-23-051 & PAR-23-052:
Mechanistic links between diet, lipid metabolism, and tumor growth and progression (UH2 & U01)

Support fundamental investigations of the links between diet, lipid metabolism, and tumor growth/progression.

PAR-21-331 & PAR-21-332:
Mechanisms that impact cancer risk after bariatric surgery (R01 & R21)

Support studies addressing mechanisms by which bariatric surgery impacts cancer risk and seeks to draw in scientists who study bariatric surgery to investigate its effects on cancer.

NOT-CA-21-121 (NOSI):
Dietary effects on nutrient sensing pathways in tumor etiology and prevention

Supports basic research investigating the biology and molecular mechanisms that determine the outcome of key diet/nutrient/cell interactions during early tumor development.

DCB Contacts for NOFOs related to *Diet and Metabolism*

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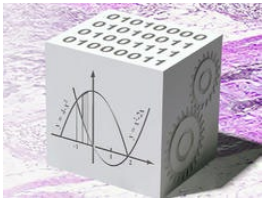
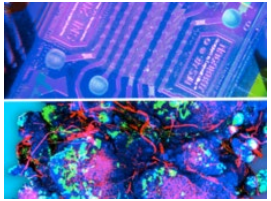
Funding Opportunities Related to *Physical Sciences, Engineering, and Biomaterials*



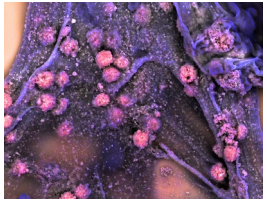
PAR-22-147: *Research Projects in Physical Sciences-Oncology (U01)*

Supports research projects addressing challenging problems in cancer using a physical science framework, perspective, or approach, which will be a part of the **Physical Sciences – Oncology Network (PS-ON).**



PAR-22-099: *Cancer Tissue Engineering Collaborative - Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research (R01)*

Supports the development and characterization of state-of-the-art biomimetic tissue-engineered technologies for cancer research, which will be a part of **Cancer TEC**.



NOT-CA-23-030 (NOSI): *Adaptive Biomaterials for Cancer Biology*

Support research focusing on the development, adaptation, or integration of innovative biomaterials for cancer biology.

DCB Contacts for NOFOs related to *Physical Sciences, Engineering, and Biomaterials*

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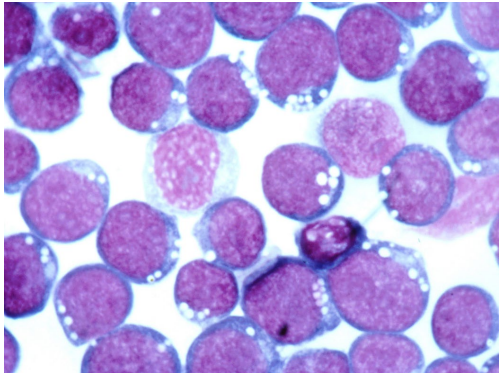
Funding Opportunities Related to *Viral Infections and Cancer*

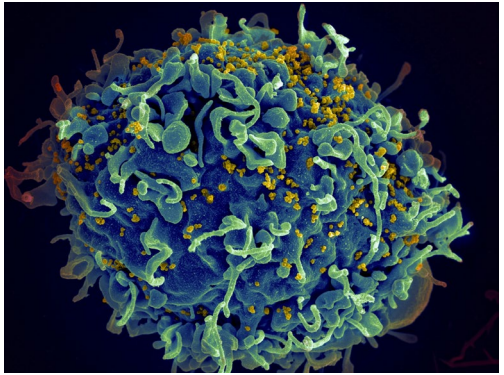
PAR-21-348: ***The role of Epstein Barr virus (EBV) infection in Non-Hodgkin Lymphoma (NHL) and Hodgkin disease (HD) development with or without an underlying HIV infection (U01)***

Supports research projects examining the role of EBV infection on NHL and HD development, which will form the **Epstein Barr Virus associated Lymphoma Consortium (EALC).**

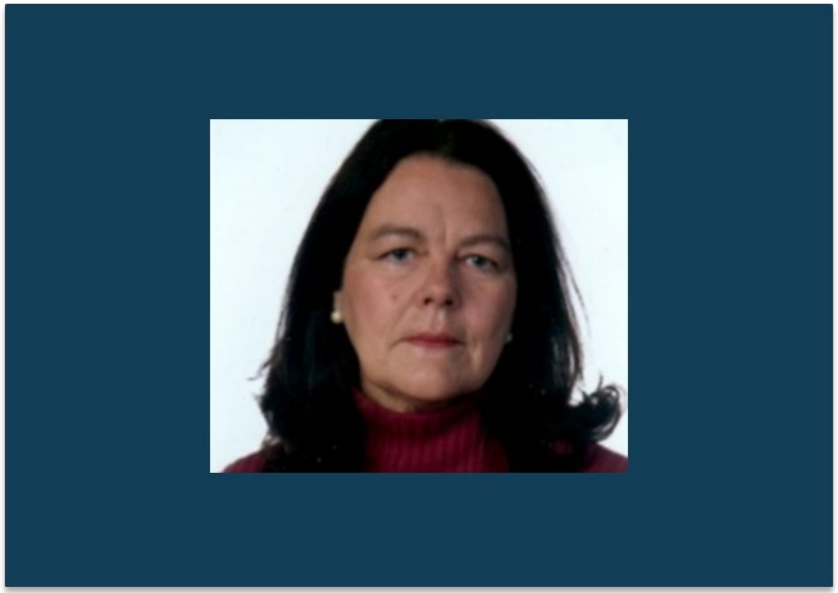


RFA-CA-22-056 & RFA-CA-22-057:
Basic/Translational Research on Health Disparities in Underrepresented People Living with HIV (PLWH) and Cancer (R01 & R21)

Support research focusing on the biological interactions of cancer health disparities in people living with HIV (PLWH) from underrepresented minority groups.



DCB Contact for NOFOs related to *Viral Infections and Cancer*



Betsy Read-Connole
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Funding Opportunities Related to *Cancer Immunology*

PAR-22-061 & PAR-22-062:
Modulating Human Microbiome Function to Enhance Immune Responses Against Cancer (R01 & R21)

Support basic research that elucidates mechanisms by which the microbiome inhibits or enhances anti-tumor immune responses and identifies targets for cancer prevention strategies.

PAR-22-085 & PAR-22-086
Microbial-based Cancer Imaging and Therapy - Bugs as Drugs (R01 & R21)

Support research investigating novel microbial-based cancer therapy, imaging detection, and diagnosis strategies to overcome the limitations of inadequate conventional cancer imaging and therapies.

NOT-CA-22-063 (NOSI):
Basic Mechanisms of Immune-related Adverse Events (irAEs) in Cancer Immunotherapy

Supports mechanistic research that aims to improve the understanding of the pathophysiology of irAEs related to immunotherapy.

DCB Contacts for NOFOs related to *Cancer Immunology*

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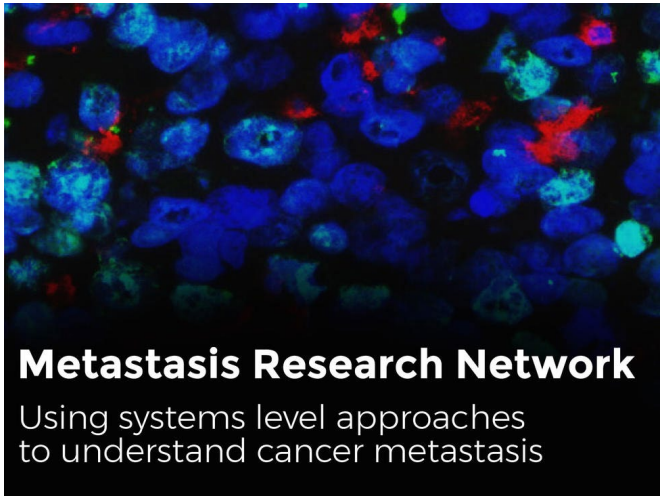
Funding Opportunity Related to *Metastasis*

PAR-22-234:
The Metastasis Research Network (MetNet): MetNet Research Projects (U01)

Supports research projects that use systems-level approaches to address gaps and opportunities in metastasis research, which will be a part of the **MetNet**.



Next Receipt Dates: October 23, 2023, June 20, 2024, October 23, 2024, June 20, 2025

MetNet webpage

DCB Contacts for NOFO related to *MetNet*

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Joanna Watson
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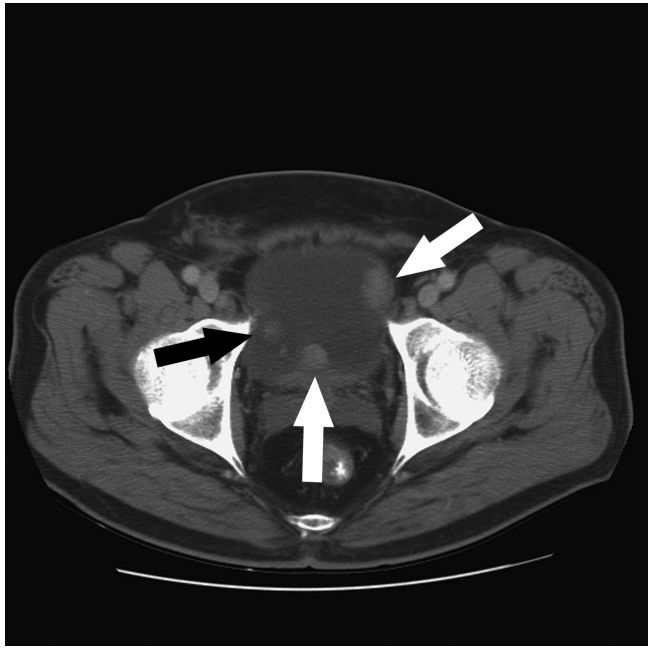
Funding Opportunities Related to *Bladder Cancer*

PAR-22-218 & PAR-22-219:
Biology of Bladder Cancer (R01 & R21)

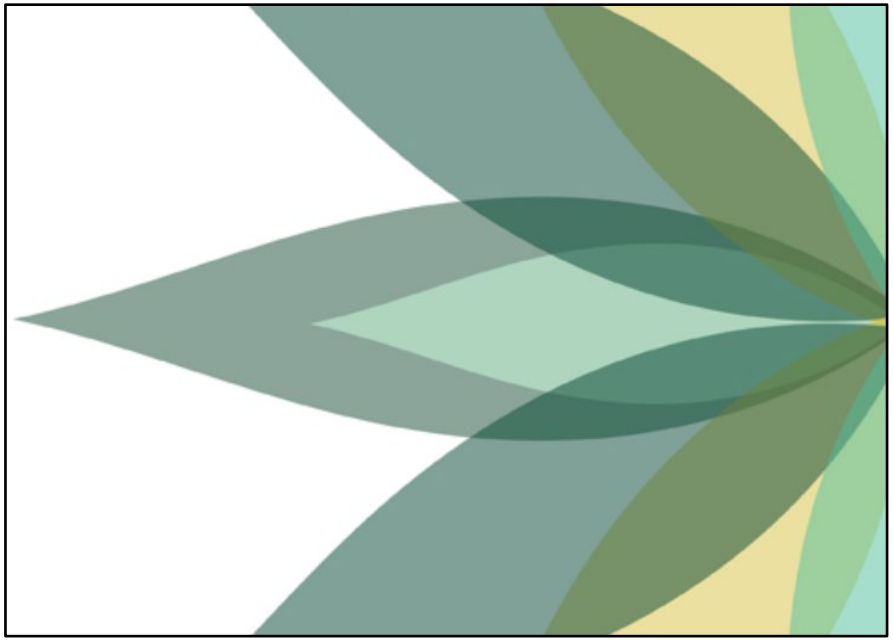
Supports research projects investigating the biology and underlying mechanisms of bladder cancer.



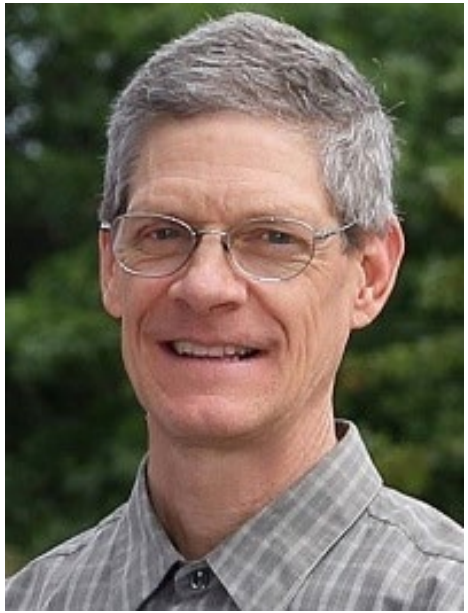
Funding Opportunity Related to *Cannabis & Cancer*

NOT-CA-22-085 (NOSI):
Basic Mechanisms of Cannabis and Cannabinoid Action in Cancer

Supports research in understanding the mechanisms by which cannabis and cannabinoids affect cancer biology, cancer interception, cancer treatment and resistance, and management of cancer symptoms.



DCB Contact for NOFOs related to *Bladder Cancer and Cannabis Action in Cancer*



Ron Johnson
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Funding Opportunities for *Pediatric Fusion Oncoproteins*

The Targeting Fusion Oncoproteins in Childhood Cancers (TFCC) Network

- **RFA-CA-23-037, *Next Generation Chemistry Centers for Fusion Oncoproteins (UM1 Clinical Trial Not Allowed)***, https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-23-037.html: Combining chemical biology technologies and chemoproteomic approaches to target fusion-driven cancers
- **RFA-CA-23-036, *Mechanisms of Fusion-Driven Oncogenesis in Childhood Cancers (U01 Clinical Trial Not Allowed)***, https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-23-036.html: Molecular mechanisms by which fusion oncoproteins drive pediatric cancers with the goals of identifying potential drug targets and understanding their mechanistic underpinnings on disease formation.

Pre-app Webinar: August 11, 2023
Due Date: November 15, 2023

Getting a Grant from the NCI

On April 21, 2022, NCI held a webinar on NCI grant policies. It covered considerations for new and experienced applicants, as well as information about peer review.

The webinar recording, presentation slides, and FAQs can be found at cancer.gov/dcb.

NCI Division of Cancer Biology (DCB)
New Grantee Workshop

DCB offers an annual workshop for new and early-stage investigators to familiarize them with the processes of DCB, NCI, and NIH.

Presentation slides and FAQs from the 2023 meeting can be found at cancer.gov/dcb.

www.cancer.gov

www.cancer.gov/espanol