

FREDERICK NATIONAL LABORATORY FOR CANCER RESEARCH – KEY MILESTONES

The [Frederick National Laboratory for Cancer Research \(FNLCR\)](#) is the federal government's only national laboratory dedicated to biomedical research. FNLCR offers an array of resources supporting the full continuum of cancer research. Examples include –

1960s

[Tumor Repository](#)

A resource of experimental tumor lines that NCI offers to cancer scientists to advance their research

1990

[Preclinical Biologics Repository](#)

A resource of reagents (cytokines, monoclonal antibodies, etc.) supporting non-clinical cancer research

2000

[NCI Mouse Repository](#)

A resource of mouse cancer models and mouse embryonic stem cells available to support cancer research

2004

[Nanotechnology Characterization Lab](#)

A national resource to assist cancer scientists who use nanotechnology particles for cancer vaccines, therapeutics, and diagnostics

2009

[NCI Experimental Therapeutics Program](#)

Works with scientists to advance promising therapies through early stage research and into cancer clinical trials

2017

[Patient-Derived Models \(PDM\) Repository](#)

A resource of PDMs – patient-derived xenografts, tumor cell cultures, and organoids – to advance drug discovery and other cancer research

2017

[National Cryo-Electron Microscopy Facility](#)

Uses high-resolution imaging to generate atomic models of proteins and other molecules to support cancer research

1986

[Natural Products Repository](#)

80,000 plant samples, 20,000 marine invertebrates and algae, and 16,000 microbes available to support cancer research

1998

[Biopharmaceutical Development Program](#)

Manufactures novel antibodies, proteins, CAR T-cells, and other biological products for research and cancer clinical trials

2001

[Protein Expression Lab](#)

Generates DNA, cell lines, and protein reagents from bacteria, insect cells, or mammalian cells for use by cancer researchers

2007

[Antibody Characterization Lab](#)

Develops and characterizes antibodies for the cancer science community, allowing researchers to select the best antibodies to support their science

2017

[HPV Serology Laboratory](#)

Develops standardized approaches to measure antibody response to HPV vaccination and distributes assays and reagents to support development of new HPV vaccines

2020

[Serological Sciences Network \(SeroNet\)](#)

Improves our understanding of immune response to the virus responsible for the COVID-19 pandemic and addresses key questions about the virus, including in immunocompromised individuals and cancer patients

