



Partnership Opportunities with the Frederick National Laboratory

Vladimir Popov

Business Development Manager – Partnership Development Office

Expertise and Instruments in Our Backyard - Baltimore Core Facilities - May 2018

DEPARTMENT OF HEALTH AND HUMAN SERVICES • National Institutes of Health • National Cancer Institute

Frederick National Laboratory is a Federally Funded Research and Development Center operated by Leidos Biomedical Research, Inc., for the National Cancer Institute

Frederick National Laboratory - history

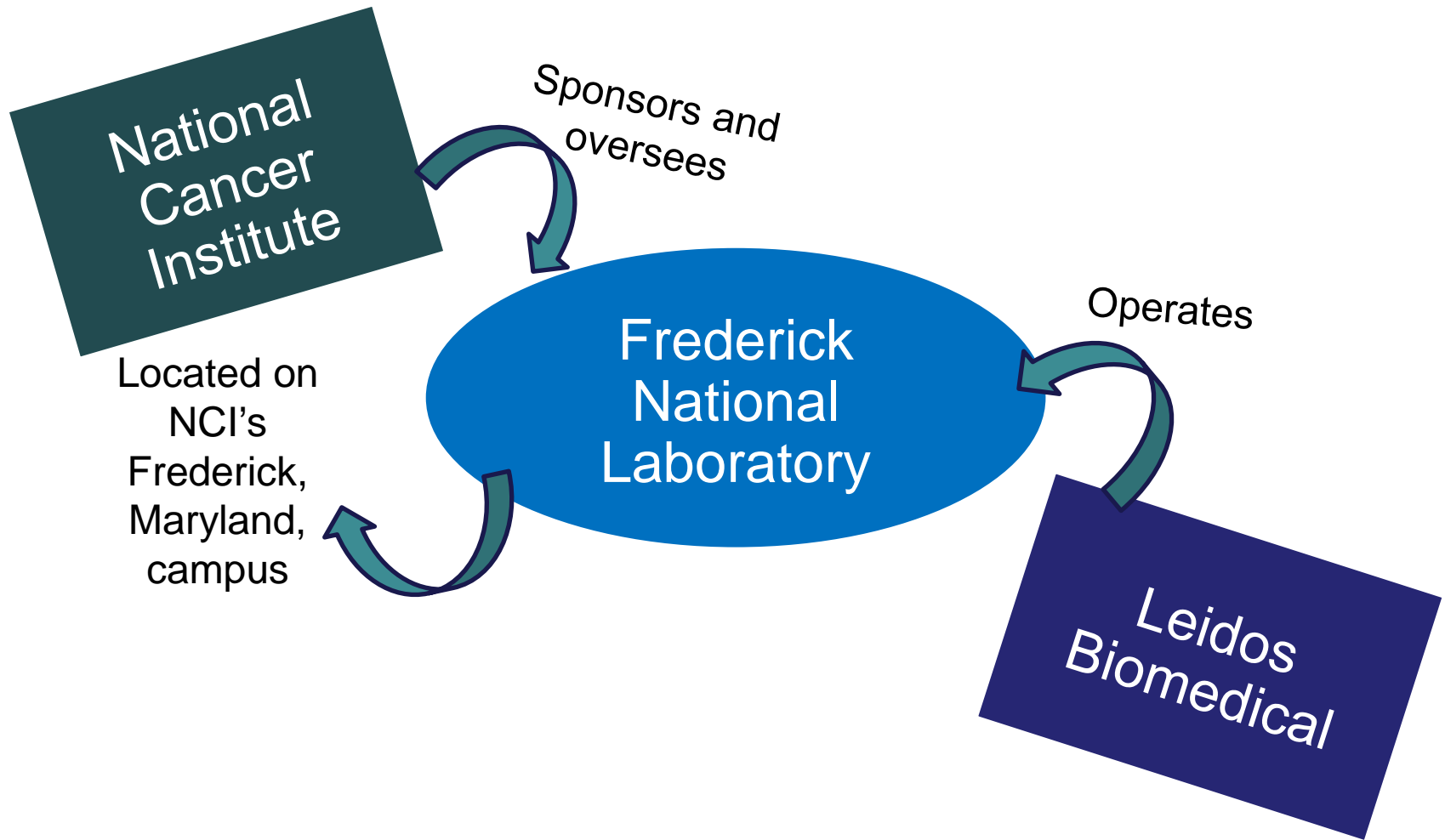


- **1971**.....President Nixon transferred 68 acres of military property to Health and Human Services. Signed the [National Cancer Act](#) creating the National Cancer Program.
- **1972**.....Frederick Cancer Research and Development Center was established on the 68 acres.
- **1975**.....[FFRDC](#) designation made.
- **2013**.....Frederick National Laboratory for Cancer Research was designated as a federal national laboratory.

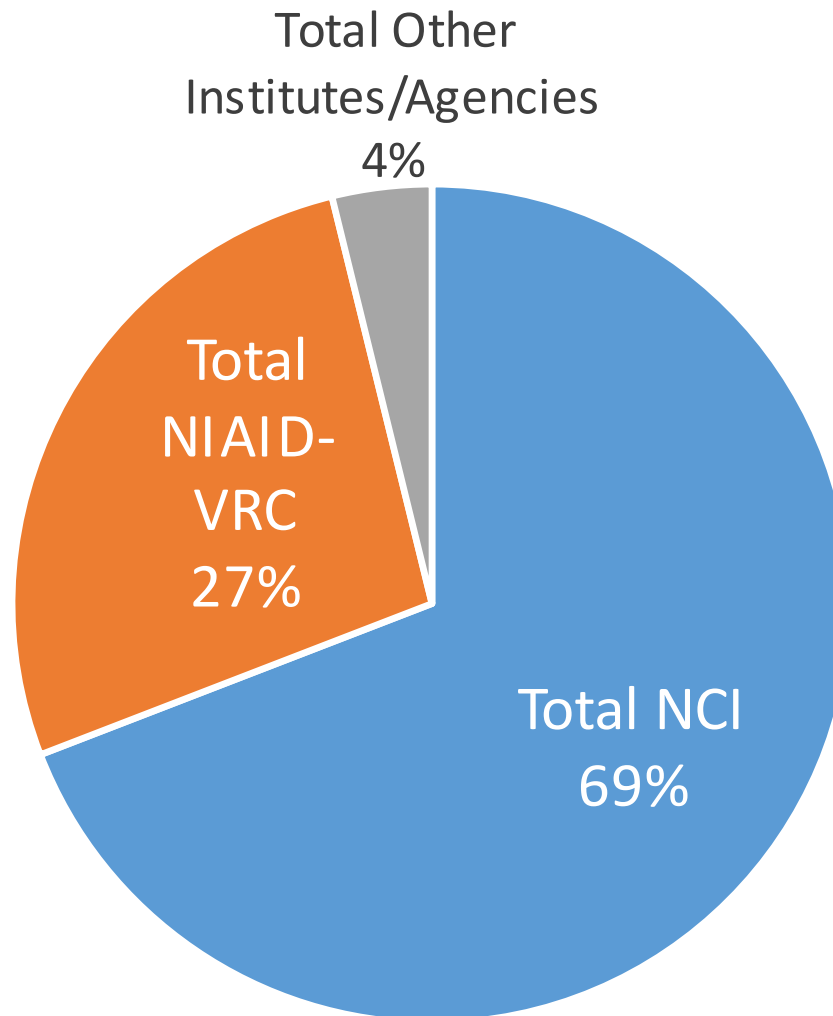


“The most significant action taken in this Administration.”

Relationship with NCI



Budget FY 2017 allocation by major source



Why partners seek the FNL?

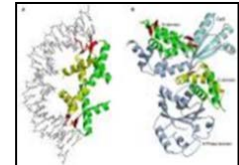


The Frederick National Laboratory is dedicated to improving human health through discovery and innovation in the biomedical sciences, focusing on cancer, AIDS, and emerging infectious diseases.

What does the FNL do?

computational
science

molecular
characterization



basic,
translational, and
clinical science

cancer,
HIV/AIDS, and
cancer viruses

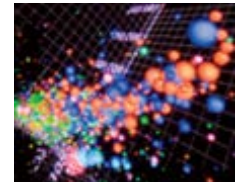
nanotechnology
characterization
and formulations



animal models
and animal
imaging

biomedical
imaging

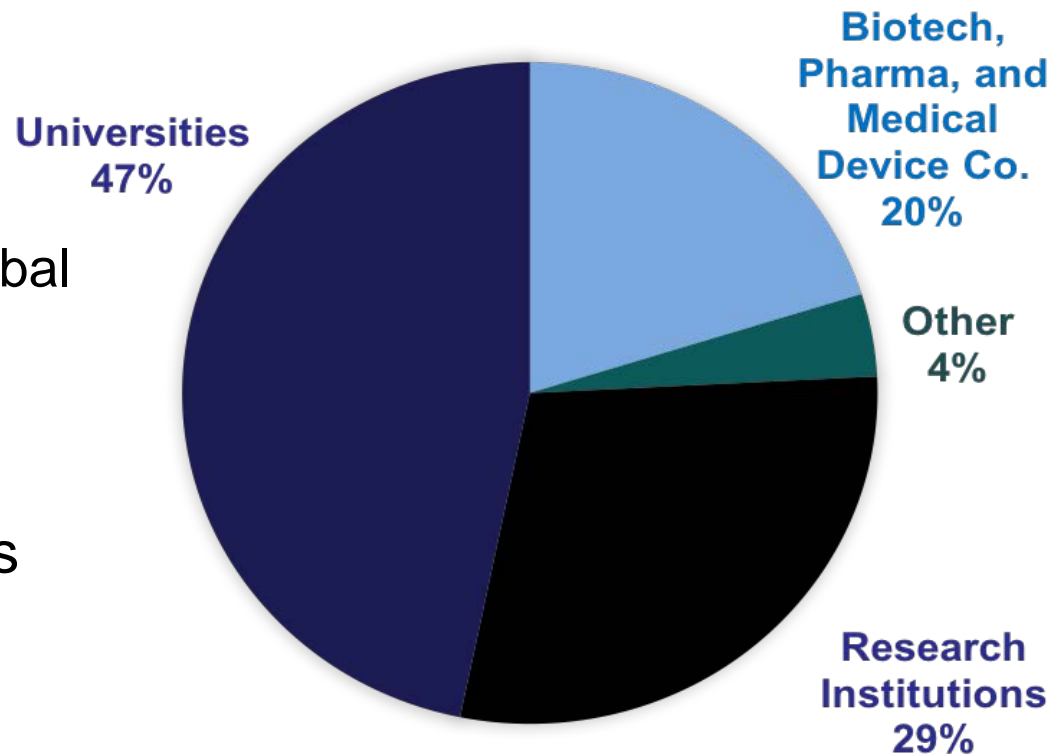
electron
microscopy



Who are our partners?



- Who partners with the FNL?
 - 127 collaborating institutions
 - Partners range from local start-ups to global pharmaceutical companies
- Many partners have multiple collaborations with us.



Value of commercial partnerships



Benefits to Partners

- Access to specialized equipment and unique capabilities
- Access to national laboratory expertise
- Proof-of-concept assistance
- Long-term ability to grow with partners
- SBIR/STTR proposal cooperation

Benefits to FNL/NCI

- Enhance the FNL/NCI mission via supporting additional biomedical research
- Collaborate around cutting-edge drugs and technologies

Benefits to Cancer/HIV Patients

- More high-quality research driving improved cancer, HIV/AIDS, and cancer virus therapies

Partnership mechanisms



	cCRADA & mcCRADA	Collaboration Agreement	MTA	Beta-Testing
Research Plan	✓	✓	✓	✓
Data Publishing Provisions	✓	✓	✓	✓
IP and Licensing Opportunities	✓	✓		
Confidentiality	✓	✓	✓	✓
Incoming Funds	✓			
Material Exchange	✓	✓	✓	✓
Collaborative Research	✓	✓		

Partnership mechanisms: Technical Service Agreements (TSAs)



TSAs offer easy access to some of FNL's unique services and solutions. Each service has a set fee, and the TSA can be negotiated quickly (~1 week).

Currently, 21 services are available, including:

- Viral load analysis
- cDNA Synthesis/Single Genome Amplification

HIV/SIV
Services



- KRAS/p53 mouse models and cell lines for PDAC and NSCLC
- 1,520 mouse embryonic cell lines with most known mouse miRNAs

Lab Animal
Services



- Nanomedicine pharmacokinetics in rats
- Nanomedicine drug release study in human plasma

Nanomedicines
& Formulation



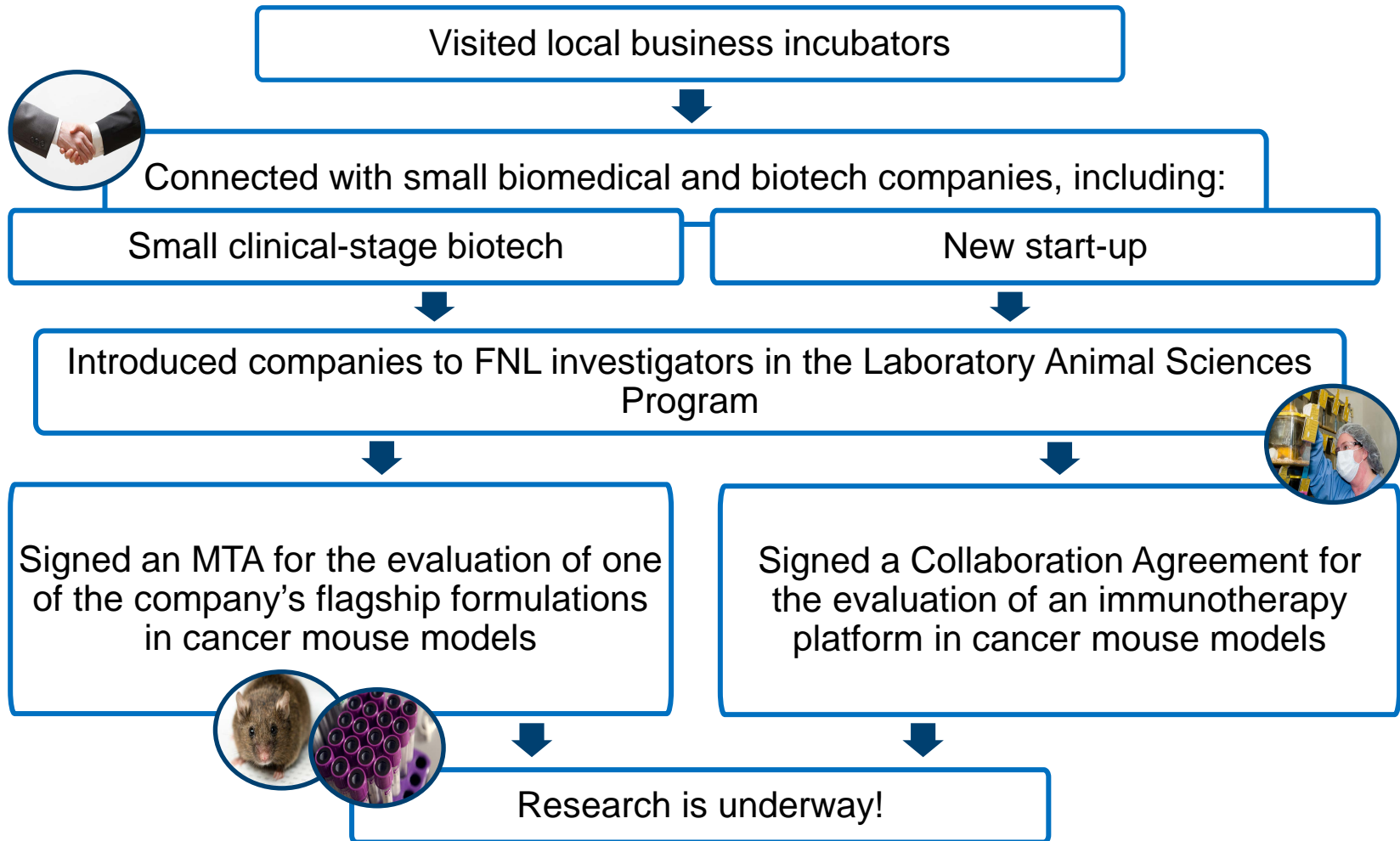
New!

- HLA genotyping
- Expression profiling for human B-cell lymphoma on the NanoString platform

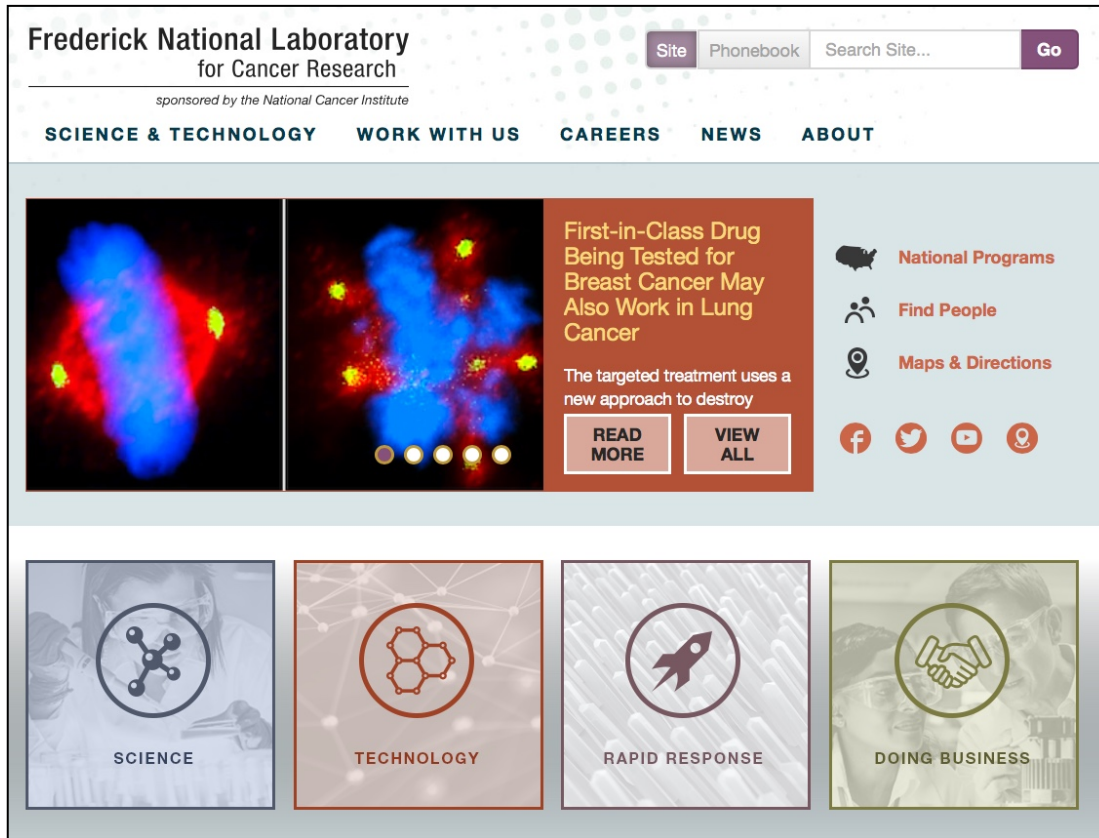
Other Services



Collaboration case study: Local biotechs



frederick.cancer.gov



Vladimir Popov, PhD
Business Dev. Manager
Vladimir.Popov@nih.gov



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