

Mechanisms of Cancer Drug Resistance & Sensitivity Network U24 Coordinating Center

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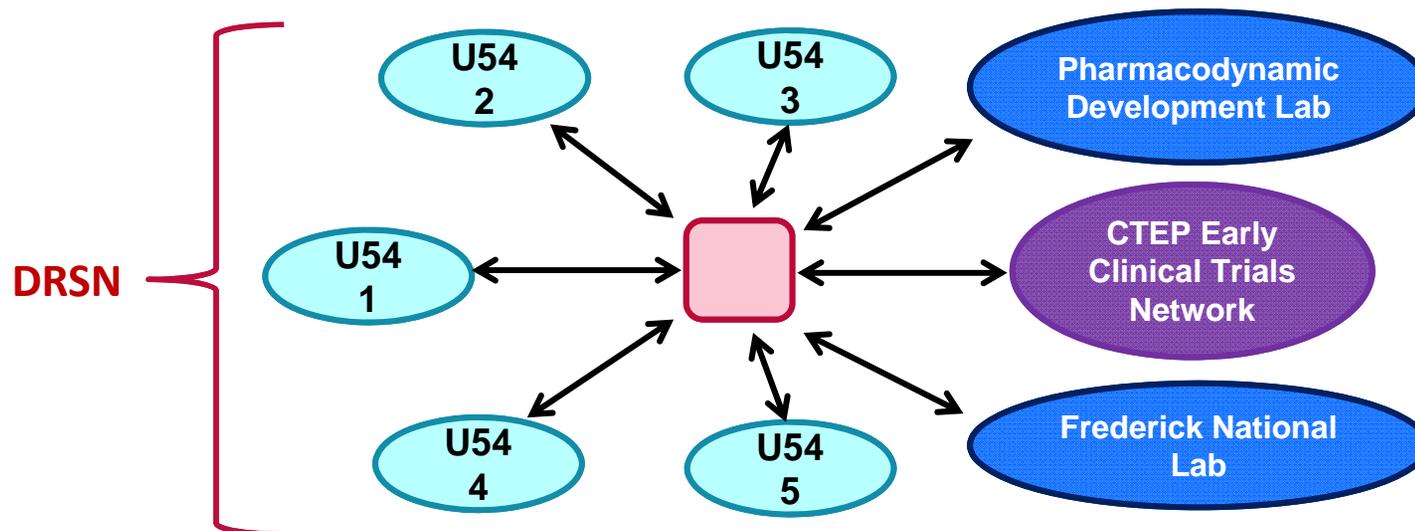
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Cancer Therapy Resistance Network Implementation Team

RFA-CA-17-009 for Studies of Mechanisms of Cancer Resistance or Sensitivity to Therapy

❖ Original FY-2017 Moonshot RFA

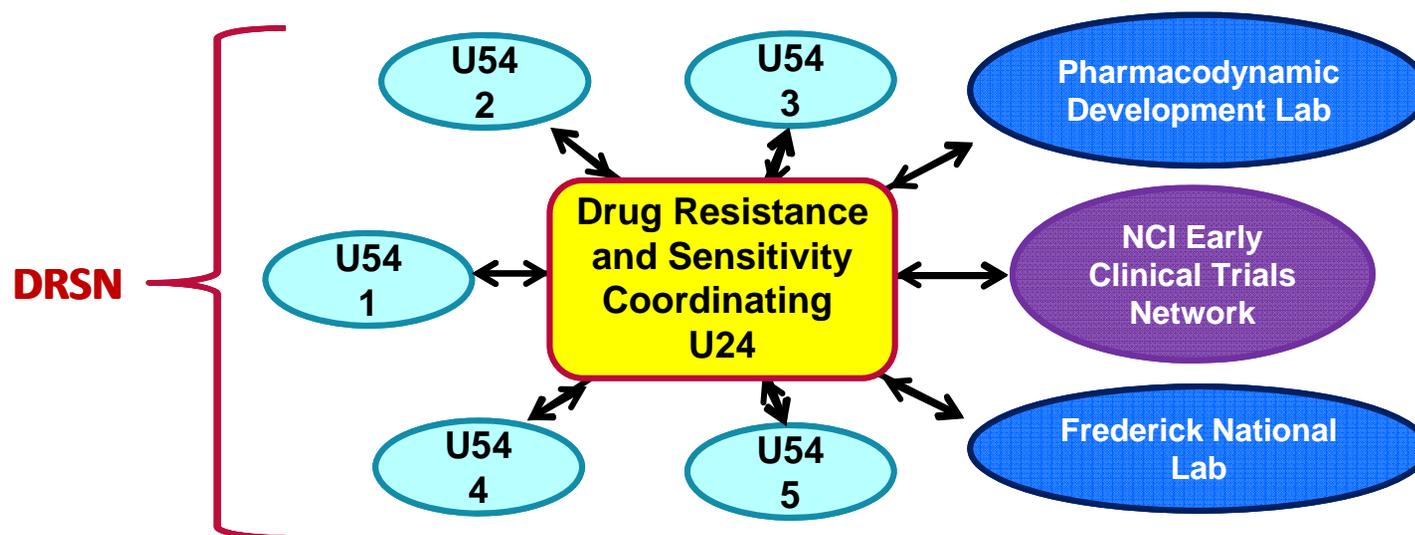
- Establish multi-disciplinary research teams to elucidate the complex mechanistic underpinnings of drug resistance and to inform future clinical trials.
- Create a specialized Drug Resistance/Sensitivity Network (DRSN) formed by up to 5 (U54) sites.
- Each U54 research team will:
 - Include several linked and well integrated basic and preclinical projects in a defined area of drug resistance/sensitivity;
 - Provide NCI and community at large with expertise in new drug development; and
 - Accelerate the drug development pipeline.



Drug Resistance and Sensitivity U24 Coordinating Center

❖ U24 Coordinating Center

- Assist the U54 sites with:
 - Network Coordination
 - Statistical and computational support
 - Data management, harmonization and protocol/best practices development
 - Integration with other Moonshot initiatives and NCI Precision Medicine programs

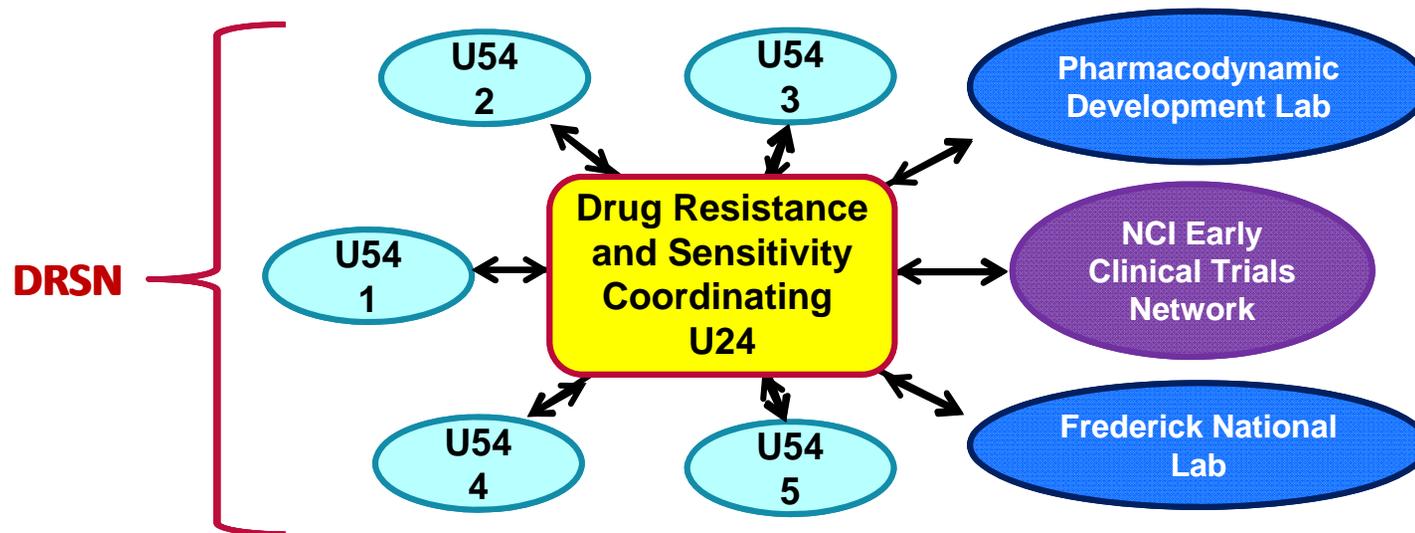


- U24 Coordinating Center not intended for “wet bench research”
- Build in potential for DRSN network expansion

Drug Resistance and Sensitivity U24 Coordinating Center

❖ U24 Coordinating Center

- Assist the U54 sites to interface with NCI programs and community at large:
 - Facilitate access to NCI investigational agents
 - Coordinate activities with the National Patient-Derived Models Repository (PDMR)
 - Enhance collaboration with Frederick National Laboratory for Cancer Research (FNLCR)
 - Accelerate pharmacodynamic assay validation through the Pharmacodynamic Assay Development & Implementation Section (PADIS) Laboratory
 - Facilitate entry of genomic and clinical data into the Genomic Data Commons (GDC) repository, to utilize databases and analytic tools within the GDC.



Drug Resistance and Sensitivity U24 Coordinating Center

❖ **U24 Coordinating Center Measures of Success:**

- Ability to coordinate the network activities
- Provide a platform that facilitates:
 - Data management
 - Sharing of research resources/tools
 - Interaction with other Moonshot and Precision Medicine initiatives
 - Outreach to NCI programs and extramural research communities
- Enhance collaboration along the basic-preclinical-clinical spectrum

Requested Funding (Total Costs - TC)

U24 Coordinating Center

No. of Awards:	One U24 award
Funding:	\$500 K / year TC
Project Period:	Five years
Est. 5-Year TC:	\$2.5 M

Thank You !!