Mechanisms of Cancer Drug Resistance & Sensitivity
Network U24 Coordinating Center

L. Austin Doyle, M.D and Percy Ivy, M.D (DCTD)
Jeff Hildesheim, Ph.D. (DCB)

Cancer Therapy Resistance Network Implementation Team

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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.

![Diagram of DRSN connections](image)
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.
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- **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)

<table>
<thead>
<tr>
<th><strong>U24 Coordinating Center</strong></th>
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<tbody>
<tr>
<td><strong>No. of Awards:</strong> One U24 award</td>
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<tr>
<td><strong>Funding:</strong> $500 K / year TC</td>
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<td><strong>Project Period:</strong> Five years</td>
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<td><strong>Est. 5-Year TC:</strong> $2.5 M</td>
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Thank You !!