



Enhanced Data Sharing

Enhance sharing of clinical and genetic/genomic hematological cancer data: A robust data sharing infrastructure for basic scientists, clinical researchers, and clinicians will enable more efficient interpretation and integration of genomic information into clinical care.

- a) **What is the research problem?** Hematologic malignancies, such as lymphomas, leukemias, and myelodysplastic and myeloproliferative neoplasms are rare and heterogeneous. Pooling genomic and clinical patient data over time would be an invaluable resource for caregivers, patients, researchers, and others in delivering the promise of targeted therapy.
- b) **What is your proposed solution?**
 - i. Improve access to cancer data available through the NCI and the NIH as a whole;
 - ii. Support additional sequencing efforts for rare cancers, including hematologic malignancies;
 - iii. Support collaboration among multiple stakeholders that are willing to support data generation and sharing (e.g., philanthropy, foundations, academia, industry, medical associations, etc.);
 - iv. Provide administrative supplements to offset the costs of collecting, analyzing, and storing clinically and genomically profiled data from patients with hematologic malignancies;
 - v. Support efforts aimed at designing proper infrastructure to host sequencing data to enable efficient interpretation and integration of genomic information into clinical care; and
 - vi. Support training/education opportunities as well as tools needed by hematologists and oncologists to enhance their ability to interpret genomic/genetic data and apply it to clinical care.
- c) **How will your solution make a difference?** Easily available accurate genomic data linked to clinical features are essential to advance curative strategies and the delivery of personalized medicine to all cancer patients.