

# Data Sharing Champion: Cancer Target Discovery and Development (CTD<sup>2</sup>) Network

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Data Sharing Champion

## Cancer Target Discovery and Development (CTD<sup>2</sup>) Network

The National Cancer Institute's (NCI) [Cancer Target Discovery and Development](#) (CTD<sup>2</sup>) Network aims to translate genomic data into therapeutically-relevant discoveries. Thereby, CTD<sup>2</sup> bridges a major gap between cancer genomics and cancer precision medicine.

1. The CTD<sup>2</sup> Network has been remarkably productive, publishing nearly 650 publications since its inception in 2009. Most of the publications are highly cited, indicating their strong influence on the cancer genomics field and scientific community.
2. The Network developed close to forty [analytical tools](#), each with its own utility, including the identification of therapeutic targets, gene and molecular networks, driver mutations, and chemical sensitivities. These tools are widely used by hundreds of users each month.
3. The Network generated [reagents](#) including shRNA libraries, a natural product library, and multiple cancer models available for use by the community. The availability of these reagents to the public fosters growth of genomics and precision medicine science.
4. In addition to the tools and reagents, all raw and analyzed data produced by the CTD<sup>2</sup> Network and associated methodologies are available through publicly accessible [Data Portal](#). Additionally, the Network created a unique interface, the [CTD<sup>2</sup> Dashboard](#), which allows users to mine data-driven observations and conclusions to generate new hypotheses.

The CTD<sup>2</sup> Network is making substantial contributions to various research domains, including the analysis of extensive genome characterization datasets, the identification of synthetic lethal genes for combinatorial therapies, and the execution of high-throughput screens. The Network fosters collaborations, which increases interdisciplinary discoveries and facilitates timely sharing of all data and resources with the broader research community. Through intra-Network collaboration and open access to its products, CTD<sup>2</sup> fulfills NCI's mission by building a base of discoveries that the research community can expand upon to accelerate development of novel biomarkers and treatments for a variety of cancer types.



We'd love to hear from you! Contact the ODS team at: [nciofficeofdatasharing@mail.nih.gov](mailto:nciofficeofdatasharing@mail.nih.gov)

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