

Simplifies interaction and info sharing between scientists and oncologists so targeted treatments can begin faster

Manages 200 billion data points generated **per patient**

Reduces mapping and analysis from months to **days**

Creates a **real-time, growing** body of knowledge



The database creates **real-time, global knowledge repository of latest findings on the most effective treatments**

Helps to refine cures for other children diagnosed with neuroblastoma

Lays the groundwork for expansion into other types of childhood cancers



NMTRC: Doctors administer treatment and add findings back into the database



NMTRC: Tumor sample is taken by the oncologist and added to genome database

TGen Cloud Computation & Collaboration Powered by Dell

- 8.2 teraflops and growing
- 1,200% increase in compute power over existing clinical computing cluster
- Dell Precision Workstations
- Dell PowerEdge Blade Servers
- Dell PowerVault Storage Arrays
- Dell Compellent Storage Center Arrays
- Dell Force10 Network Infrastructure
- Technical expertise and support



DNA mapping results are saved to the TGen Cloud

Information is stored in a protected, accessible manner so that doctors can get the results quickly



TGen: Molecular characterization of the tumor is formulated



Specific tumor make-up is mapped against millions of patient DNA and treatment variables

Best match is based on other patients with a similar make-up and the treatment that worked well for them

