



General information about the Translational Genomics Research Institute (TGen)

President and Scientific Director: Dr. Jeffrey Trent

Number of employees: Approximately 300

Locations: Headquarters in downtown Phoenix; TGen Clinical Research Services at Scottsdale Healthcare; Translational Drug Development Services (TD2) at Mayo Clinic Scottsdale; TGen North in Flagstaff

Year established in Arizona: 2002

What is TGen?

TGen stands for the **T**ranslational **G**enomics Research Institute. Each word in our name has a specific meaning:

-- *Translational* – This refers to TGen’s ability to take scientific discoveries made in research laboratories and “translate” them into drugs and other therapies for patients. Our translational research includes various forms of cancer, neurological disorders such as Alzheimer’s and autism, as well as diabetes, obesity and heart disease.

-- *Genomics* – The study of the human genome, which is our genetic make up – what makes us who we are – including our hair and eye color, how tall we grow and how we age. Genomic analysis is leading to pioneering discoveries by TGen. We are working to target new therapies for individual patients suffering from diseases for which there are no cures or limited treatments.

-- *Research* – TGen’s unique research is conducted by dozens of scientific teams using the latest advanced technology.

-- *Institute* – TGen is a non-profit – 501(c)(3) – organization funded by a variety of private, government, business and philanthropic sources.

TGen’s mission:

The primary mission of TGen is to benefit humanity by providing new insights into the nature of disease. We study how genes and proteins – the microscopic building block of life – can affect human health. Scientists at TGen help find new ways of treating patients, bringing comfort and better quality of life to those suffering from afflictions, to their families and to their communities. TGen also plays a key role in national security and bio-defense.

How TGen benefits all of Arizona:

In addition to the scientific breakthroughs, TGen provides economic and educational benefits:

-- Collaborating with the three major universities: Arizona State University, the University of Arizona, and Northern Arizona University; local community colleges; and academic institutions



nationally and internationally – leveraging expertise and resources and attracting new research dollars to Arizona.

-- Partnering with Arizona hospitals and other medical and health organizations, including Banner Health, St. Joseph's Hospital, the Arizona Alzheimer's Consortium, the Mayo Clinic Scottsdale and Scottsdale Healthcare, ensuring that local research will benefit local patients first. Through its TGen Clinical Research Services at Scottsdale Healthcare, the organization has recorded more than 3,000 cancer patient visits through its clinical trials programs.

-- Supporting local economies with good-paying jobs for highly trained scientists, doctors and support personnel, which in turn benefits local communities and drives the creation of more jobs.

-- Establishing Arizona as a center of advanced biomedical technology, with collaborative relationships that extend across the nation and across the seas, from Australia to Europe.

-- Spinning off new businesses from TGen and patenting intellectual property.

-- Creating a synergistic hub of intellectual, scientific, economic, social and academic interaction in downtown Phoenix. Within the Phoenix biomedical campus, TGen has taken a leading role in helping establish links and support operations with the downtown campus of ASU, Phoenix Union Bioscience High School, ASU-UA Arizona Biomedical Collaborative, and the U of A College of Medicine-Phoenix in partnership with ASU.

-- Training tomorrow's high-skill leaders in science and medicine. TGen's interns, who are drawn from throughout Arizona, have won national science recognition and after their internships, gone on to attend some of the most prestigious schools in the nation, including: Harvard, Georgetown, Stanford, Notre Dame, John's Hopkins University, as well as ASU, U of A and NAU. Each summer TGen hosts more than 50 high school, undergraduate and graduate interns. A survey of TGen's more than 200 interns found that 94 percent of those who still are in school are pursuing degrees in science, with 25 percent pursuing doctoral degrees.

-- Growing the state's knowledge-based economy, attracting direct national and international investments, new business formations and relocations to Arizona.

The Translational Genomics Research Institute (TGen)

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