

Precision oncology

Precision oncology is an innovative, personalized approach to cancer care that considers the unique characteristics of each person's cancer. Rather than relying on a one-size-fits-all plan, our team examines the specific genes and molecular features of your tumor. This allows us to recommend therapies that are more likely to work for you while aiming to reduce side effects — offering the best chance for improved outcomes and quality of life.

About our center

At the UC Davis Comprehensive Cancer Center, our mission is to provide the most advanced, personalized care for individuals facing a cancer diagnosis, including genitourinary cancers such as prostate cancer.

As a National Cancer Institute-designated comprehensive cancer center and a leader in the region, we are proud to introduce our new precision oncology program to patients.

Welcome to a new era of personalized cancer care, right here in Northern California!



Comprehensive Cancer Center

2279 45th St.
Sacramento, CA 95817
916-734-5959
800-770-9261 (toll-free)

Office hours

Monday–Friday: 8 a.m. to 5 p.m.

**Precision oncology
and next-generation
sequencing testing**

Next-generation sequencing (NGS) testing

NGS is a state-of-the-art, precision oncology tool that reads the genetic “instructions” inside cells. By analyzing a small sample of tumor tissue or blood, it can identify important DNA changes (mutations) in your cancer, as well as inherited genetic variations that may also be shared with your family members. Results are reviewed by our expert care team, who explain the findings and help guide next steps for your cancer care.



NGS testing helps your doctor:

- Identify targeted treatments that may work best for you
- Determine if a clinical trial or new therapy could be a good option
- Avoid treatments that are unlikely to help or might cause unnecessary side effects
- Monitor how your cancer responds to treatment, detect changes early and quickly adapt your therapy if needed
- Assess the likelihood that your cancer may return after treatment, your risk of developing other cancers and the risk of your family members developing cancer

Leading medical societies — including the American Society of Clinical Oncology, National Comprehensive Cancer Network and European Society for Medical Oncology — recommend NGS testing for patients with many types of advanced cancers, such as prostate and bladder cancer.

Precision oncology makes a difference in your cancer care

Leveraging the latest technology and personalized treatment strategies, our precision oncology program strives to:

- Improve your chances of successful cancer treatment
- Reduce unnecessary side effects
- Offer novel therapies and clinical trials when appropriate
- Support you and your loved ones every step of the way



Cost and insurance coverage

We believe access to advanced cancer care should not depend on your ability to pay. Our team works closely with insurance providers and secures financial assistance to minimize — or often eliminate — out-of-pocket costs associated with NGS testing.

Thanks to a new state law, all state-regulated insurance plans are now required to cover NGS testing in oncology clinics, further reducing cost barriers.

A member of your care team will review your financial assistance options with you before any testing is ordered.

For more information, visit cancer.ucdavis.edu