UC DAVIS HEALTH | COMPREHENSIVE CANCER CENTER

SPRING 2026

SHARED RESOURCES

QUARTERLY NEWSLETTER

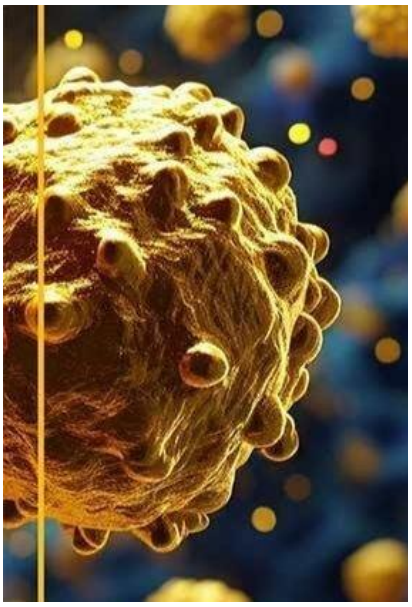
Cancer Research Support, Facilitated by Leading Scientists

The UC Davis Comprehensive Cancer Center's Shared Resources provide members of the scientific community with advanced equipment and technical expertise to enable peer-reviewed cancer research across the continuum. Members of the Cancer Center may receive priority access and subsidized rates for services used when conducting cancer research.

Not a member? Learn about the benefits of cancer center membership.

Stronger Science Starts **HERE**

High-Resolution Insights for Nano-Scale Innovation



Cancer Center researchers are pioneering nanoscale cancer biology with cutting edge technology available from the Flow Cytometry Shared Resource (FCSR).

Enabled by an NIH S10 instrumentation grant, the Flow Cytometry Shared Resource offers access to a Cytoflex Nano for sub-micron flow cytometry.

The CytoFlex Nano is a state-of-the-art, 4 laser, 6-color cytometer capable of detecting particles as small as 40nm - perfect for innovative exosome and sub-micron research.

Learn More About the FCSR

3D Bioprinted Tumoroids for Precision Oncology

The Mouse Biology Shared Resource (MBSR) is **piloting a new service exclusively for Cancer Center members**. Led by Dr. Christopher Lucchesi (Urologic Surgery), this new service features a high-throughput 3D bioprinted tumoroid platform that enables rapid generation of patient-derived tumor models while preserving the complexity of the tumor microenvironment.

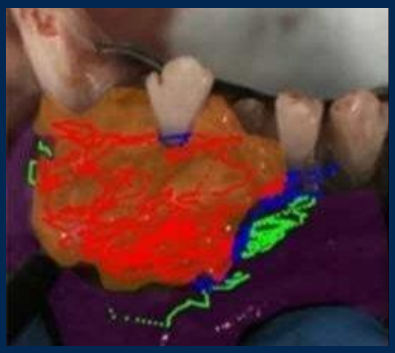
Unlike traditional organoid systems that enrich for epithelial cells, this platform maintains tumor, stromal, and immune components from primary tissue specimens, enabling more physiologically relevant studies of tumor–immune interactions. This approach represents a significant advance for precision oncology research.

Interested? Contact mbsr@ucdavis.edu to learn more.

Research Impact: Powered by Shared Resources

A cross-causeway collaboration led by Dr. Stephanie Goldschmidt demonstrated that label-free fluorescence lifetime imaging (FLIm) can accurately distinguish cancer from healthy tissue in naturally occurring canine oral tumors, highlighting the translational potential of advanced optical imaging in clinically relevant models.

Using only endogenous fluorescence, the team identified consistent differences between tumor and normal tissue without contrast agents. Notably, 5-ALA did not improve discrimination, underscoring the strength of intrinsic FLIm for real-time tumor detection and surgical guidance.



FLIm distinguishes cancerous (red) from healthy tissue (green) in canine oral tumors. *Sci Rep* **16**, 6077 (2026).

This work, appearing in Scientific Reports was conducted in collaboration with the Biostatistics Shared Resource (BSR) which provided rigorous analytical support to ensure robust interpretation of lifetime and spectral parameters. The study highlights the power of interdisciplinary collaboration to advance quantitative imaging technologies and accelerating their translational utility in oncology.

Learn More About the BSR

Notice to All NIH-Funded Investigators and Shared Resource Users

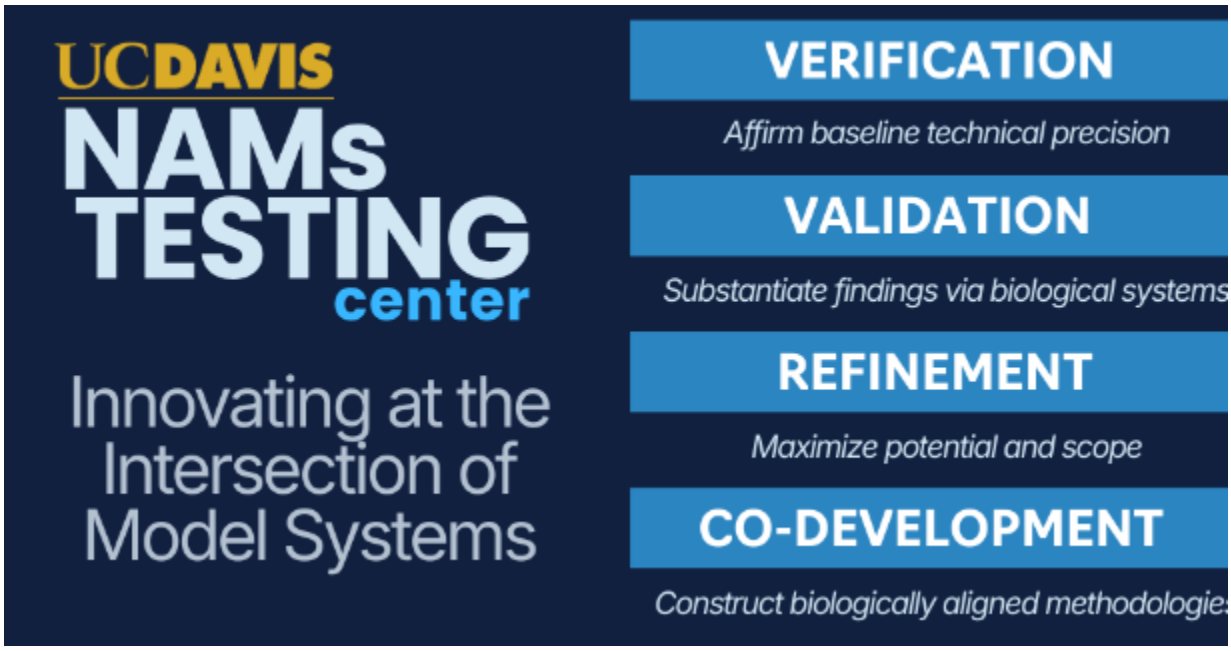
The NIH Grants Policy Statement requires investigators to acknowledge NIH funding in publications, presentations, and other publicly shared research products that arise from NIH-supported work.

The Shared Resources are supported by the Cancer Center Support Grant (CCSG) awarded by the National Cancer Institute (NCI P30CA093373).

In accordance with NIH policy, publications that utilized facility resources, services, or scientific data should acknowledge the Shared Resource(s) *and* cite the NCI CCSG. An electronic copy of the publication should also be sent to the Shared Resource.

Sample Acknowledgement: The authors acknowledge utilization of the UC Davis Comprehensive Cancer Center [NAME] Shared Resource, supported by the Cancer Center Support Grant (NCI P30CA093373). The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

Expert Research Guidance

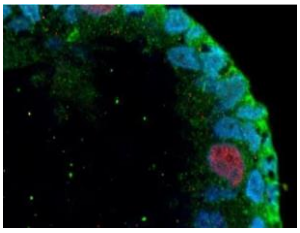


NAMs, which stands for “novel alternative methodologies” or “new approach methods”, are an exciting group of *in chemico*, *in vitro*, and *in silico* technologies that have the potential to accelerate translational research by reducing reliance on slower, more costly, and/or less human-relevant experimental approaches.

With more than 2,500 NAMs emerging worldwide to model human biology and disease, rigorous verification and validation is essential. The NAMS Testing Center provides *in vivo* verification, validation, refinement, and co-development services to ensure the accuracy, reproducibility, and predictability of NAMs for translational research.

Advancing sustainable, high-impact research

Learn More



Register Here

Want to dig deeper into NAMs?

" ***Advancing Drug Discovery with Complex Human In Vitro Models***" is a half-day virtual summit hosted by STEMCELL Technologies, featuring scientists and industry experts discussing the real-world impact and evolving landscape of *in vitro* NAMs, including key scientific, regulatory, and operational factors shaping NAM-enabled drug discovery.

Wednesday, April 8, 2026
8 a.m. - 12:30 p.m. PST

Training, Workshops, and Events

The Biostatistics Shared Resource (BSR) helps researchers apply state-of-the-art statistical methodologies to their data analysis. The BSR supports investigators through every step of their project — from design and analysis planning through writing and review.

For more information, contact Dr. Lihong Qi.

BSR Weekly Office Hours

1st and 3rd Monday,
1 - 2 p.m.
Tuesdays, 12 - 2 p.m.

Schedule Consult

Monthly Pop-in Workshops

Ready to submit your manuscript but bogged down trying to figure out how to upload your data to GEO?

Join us for the next Genomics Pop-in Workshop, where we will walk through the process step-by-step, discuss best

No registration needed!

Hybrid workshops are held

practices, tackle common pitfalls, and answer your burning questions.

Whether you are knee-deep in sequencing data or just getting started, we are here to help!

After the presentation, stick around for open discussion and troubleshooting on any genomics-related questions or projects - bring your data, ideas, and curiosity! We invite you to use this opportunity to discuss/troubleshoot/brainstorm any genomics applications, topics, projects, data, proposals, manuscripts, etc. For questions, email the GSR team.

12-1 p.m. on the 4th Wednesday of each month

For in-person attendees, home-baked snacks will be provided.

Betty Irene Moore Hall, Room 1602, Sacramento

Join by Zoom

The annual UC Davis Research Expo showcases the latest research-related opportunities, insights, resources, and tools to help you advance your research. The event includes exhibits, presentations, workshops and opportunities to network with potential collaborators.

Who should attend: Faculty, post-docs, staff, students, administrators, and industry partners involved in research.

Come and visit the Cancer Center Shared Resource Management booth to learn more about the SRs.

Free Event

9:30 a.m. to 2:00 p.m.

Wednesday, Apr 29, 2026

UC Davis Conference Center, 550 Alumni Lane, Davis, CA 95616

Register Now

National Associations for Shared Resources

ABRF Annual Meeting
Mar 28-31, 2026

The **Association of Biomolecular Resource Facilities** (ABRF) promotes education and career advancement for Core facilities professionals. ABRF has more than 3,000 members, working within or in the support of resource and research laboratories in government, academia, research, industry and commercial settings.

Learn More About ABRF

NACCSR Pre-ABRF Meeting
Mar 27-28, 2026

The **National Alliance of Cancer Center Shared Resources** (NACCSR) is a collaborative network of Core professionals across the nation, united in the pursuit of advancing cancer research through partnership, innovation, and shared expertise. Dr. Kent Lloyd represents the Cancer Center Shared Resources at NACCSR.

Learn More About NACCSR

Compliance Matters

NIH Biosketches & Other Support

The National Institutes of Health (NIH) announced that for all submissions due on/after January 25, 2026, biographical documents **must be completed using Common Forms** (NOT-OD-26-018).

Don't wait until your grant or progress report is due to update your Biosketch and Other Support documents. See the detailed reference guide from the UC Davis Office of Research to complete the necessary steps today.

NIH Public Access Policies

As of July 1, 2025, the NIH updated its *Public Access Policy* to require that all peer-reviewed manuscripts reporting NIH-funded research must be made openly accessible to the public *immediately* upon publication.

This includes all publications that used our NIH-supported Cancer Center Shared Resources.

A journal that makes your article open access via a formal PMC agreement satisfies this requirement. If a journal does not do this themselves, then authors must deposit their *Author Accepted Manuscript* (the peer-reviewed version accepted for publication) into **PubMed Central** (PMC) so it's publicly available when the journal publishes it.

Read more about the NIH Public Access Policy and PMC Submission Process.

As a Cancer Center member, it's very easy to access the Shared Resources.

1	2	3	4	5
Review Shared Resource offerings to use	If you don't have one, set up a PPMS account	Request services through PPMS	Receive high quality services	Acknowledge use of services in publications

Not a Cancer Center member? Learn about the benefits and privileges of membership here.

Shared Resources support investigators across the spectrum of cancer research