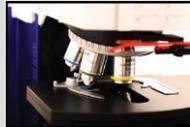
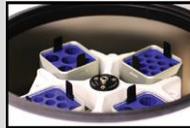




University of California, Davis
Translational Human Pluripotent Stem Cell Shared
Research Facility
www.tsrfs.ucdavis.edu

OVERVIEW

The UC Davis Translational Human Pluripotent Stem Cell Shared Research Facility (TSRF) is a ~2,500 sq. ft. facility that includes 3 fully equipped cell culture laboratories; flow cytometry and cell sorting; molecular core for quantitative real-time RT-PCR; histology core; controlled-rate cryopreservation and cell storage for cell lines and banks for investigators; and an infrastructure of experienced personnel to ensure efficient operation, to provide services, and to ensure the necessary training and guidance in the growth and culture of human pluripotent stem cells.

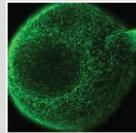
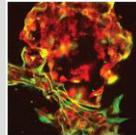


Videoconferencing and videotraining is routinely used for ongoing interactions with other sites including the Institute for Regenerative Cures on the Sacramento campus, and trainees at the State University sites.

The TSRF is a training and service facility that is part of the UC Davis School of Medicine Stem Cell Program and linked with the Institute for Regenerative Cures. The goal of the facility is to provide state-of-the-art laboratories, training, and resources for human pluripotent stem cell research.

SERVICES

- Assistance with cell culture
- Feeders or feeder-free culture conditions
- Media preparation and lot testing
- Cryopreservation and cell storage
- Maintaining cell banks and karyotyping
- Designing primers and probes for PCR
- DNA/RNA preparation, real-time PCR
- Quality control testing (e.g., mycoplasma, endotoxin)



- Embedding, sectioning, staining (fixed, frozen sections)
- Morphological assessments (e.g., phase contrast, brightfield, fluorescence)
- Immunohistochemical analyses
- Flow cytometry, cell sorting
- Tissue engineering strategies
- Differentiated human pluripotent stem cells for transplantation or organoid culture



WORKING IN THE TSRF

Interested investigators to email the Facility Coordinator to ensure needs are met and to provide any assistance with the following:



- MTA between the distributor and the P.I. for cell line(s) as required
- Approvals from campus committees (e.g., SCRO, BUA)
- Campus training (e.g., biological and chemical safety)
- Prior experiences relevant to human stem cell research
- Facility use training

Research objectives, facility needs, consumables, and services are discussed in advance with scientific and technical staff.

Equipment sign-up is arranged through the coordinator.

Down-loadable forms are available on the TSRF website to request reagents and supplies that will be provided by the TSRF and recharged to users.