



# University of California, Davis



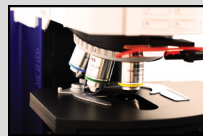
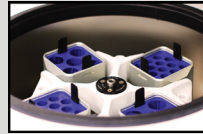
## Translational Human Embryonic Stem Cell Shared Research Facility

Supported by the California Institute for Regenerative Medicine

[www.tsrfs.ucdavis.edu](http://www.tsrfs.ucdavis.edu)

### OVERVIEW

The UC Davis Translational Human Embryonic 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; a molecular core for quantitative real-time RT-PCR; a histology core; controlled-rate cryopreservation and cell storage for cell lines and cell 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 embryonic stem cells.

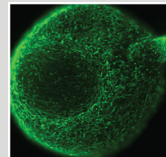
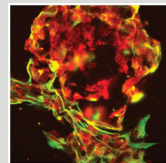


To facilitate investigator interactions, a conference room is available for group meetings, presentations, and to discuss data. Shared cubicles can be used by investigators, students, and staff when working at the facility. Internet access and computer workstations are also available. Videoconferencing and teleconferencing are also available.

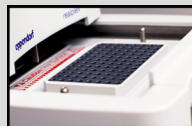


### SERVICES

- Project Consultation - \$58/hour  
(hESC training: \$2,000/week-long program)
- MEFs - \$50/cryopreserved vial
- Flow Cytometry/Cell Sorting - \$183/hour
- Quality Control Testing  
(endotoxin and mycoplasma) - \$387/sample
- Storage Cryopreserved Cells - up to 80 vials  
\$15/month, liquid nitrogen storage of 1 box

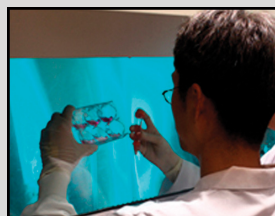


- Lot testing, media preparation
- Maintaining cell banks
- DNA/RNA preparation, Real-time PCR
- Embedding, sectioning, staining  
(fixed, frozen sections)
- Morphological assessments  
(e.g., phase contrast, fluorescence)
- Immunohistochemical analyses



### WORKING IN THE TSRF

Contact the Facility Coordinator (530-752-1823, [TSRF@ucdavis.edu](mailto:TSRF@ucdavis.edu)). To ensure that all CIRM and UC Davis requirements for working in the facility are met, the following will require documentation:



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

Research objectives, facility needs, consumables, and services will be discussed before use with scientific and technical staff. Upon approval, investigators will be added to the facility listserve and receive a binder of facility protocols and procedures. Downloadable forms are available on the TSRF website to request reagents and other needed supplies. All reagents and supplies are provided by the TSRF and recharged to users. A rate structure will also be provided.