Translational Research Lab

USC School of Pharmacy Translational Research Laboratory (TRLab) is located in 10 laboratory spaces of the Pharmaceutical Sciences Center. The TRLab provides investigators with a state-of-the-art technological platform and technical expertise to advance translational research endeavors in the School of Pharmacy and at USC.

Services

The TRLab offers user training, assisted use and consultation of highly sophisticated equipment in the following applications:

- Sample processing
- Histology
- Lentiviral Lab
- Cell and Immunobiology
- Flow Cytometry
- Imaging
- Molecular Analysis
- Molecular Biology
- RNA/DNA Sequencing

TR Lab Contact:
TRLabCore@usc.edu
## Mass Spectrometry Core

Our Core is dedicated to actively collaborate with internal and external research groups in providing comprehensive service in MALDI imaging and analysis of small molecules, peptides, and proteins using mass spectrometry.

### Services

- MALDI MS and MS/MS
- Cryosectioning and MALDI Imaging
- Lipidomics
- Metabolomics
- Proteomics
- Quantitation of drugs and small molecules/peptides
- Top-down analysis for protein identification

### Equipments

- Thermo Scientific Q Exactive with Vanquish UPLC or Easy Nano-LC
- Sciex 6500+ with Agilent Infinity II HPLC
- Bruker Rapiflex MALDI TOF-TOF MS
- Thermo Scientific Multidrop Combi

Mass Spectrometry Core Contact: massspec@usc.edu
Current and future scientists deserve the most advanced facilities possible to conduct leading-edge research. The USC School of Pharmacy maintains numerous core laboratories—each unequaled in their state-of-the-art equipment and extensive support from a dedicated staff.

This brochure provides an overview of the two major core facilities available at the USC School of Pharmacy.